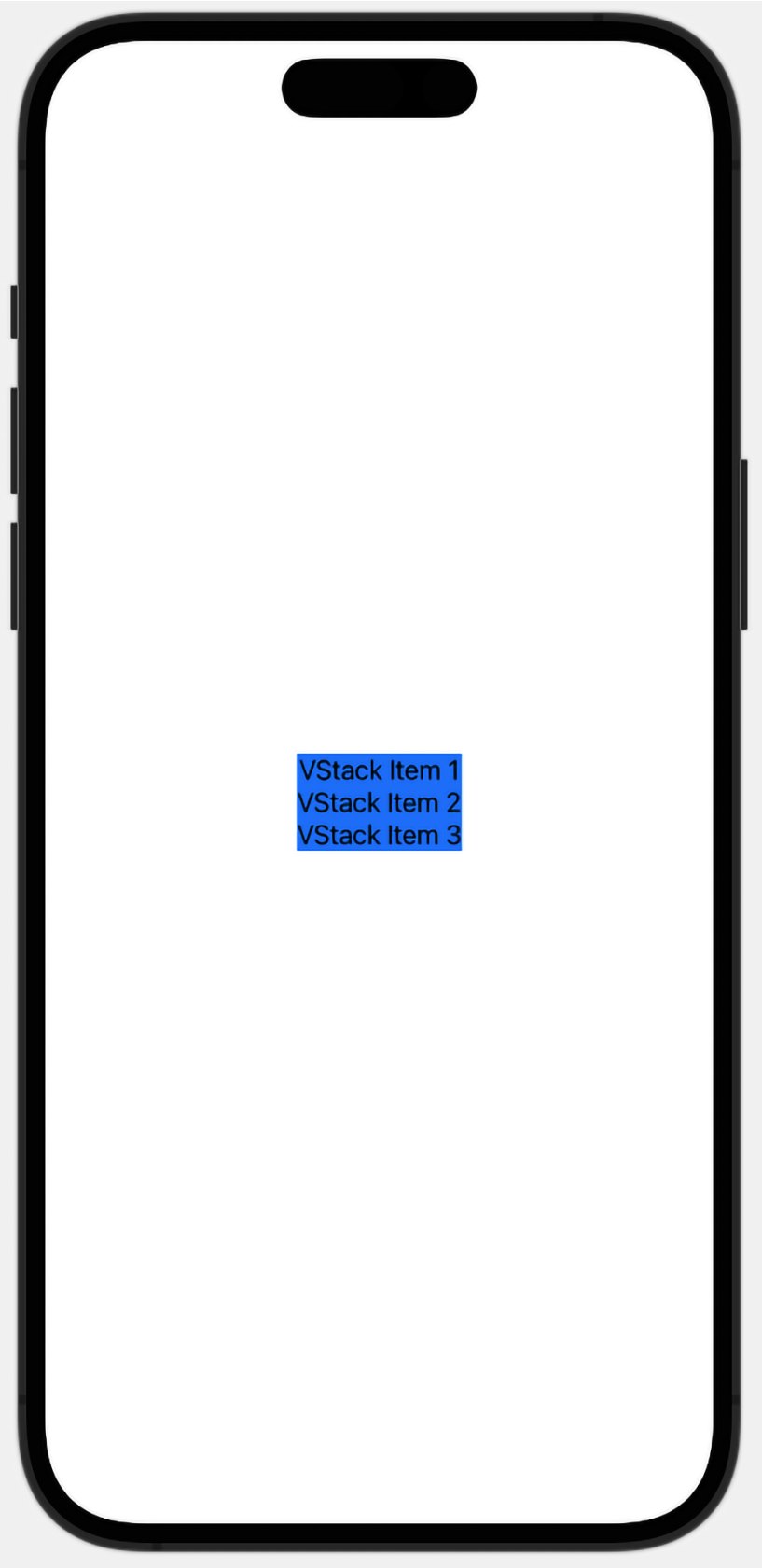
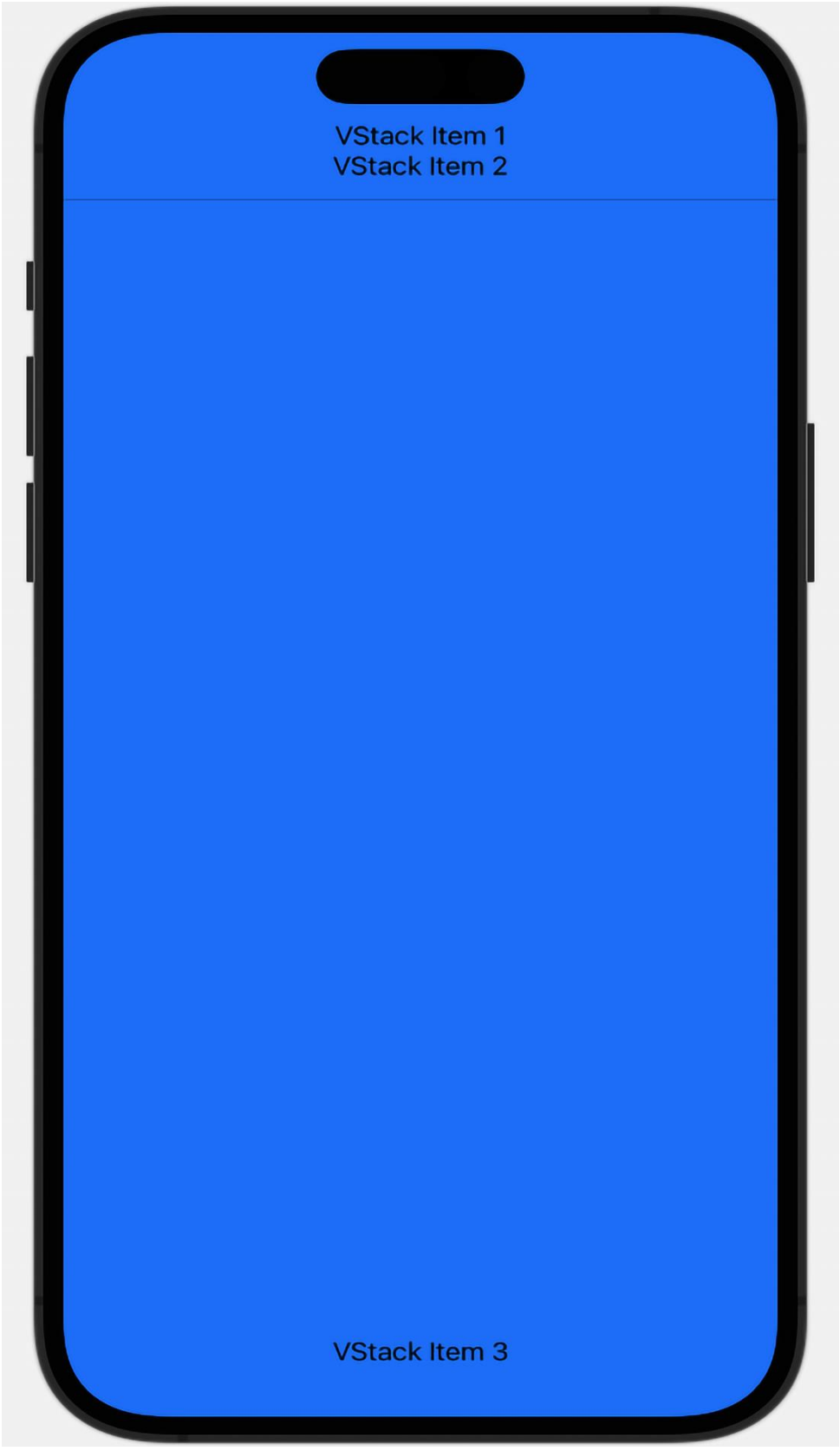
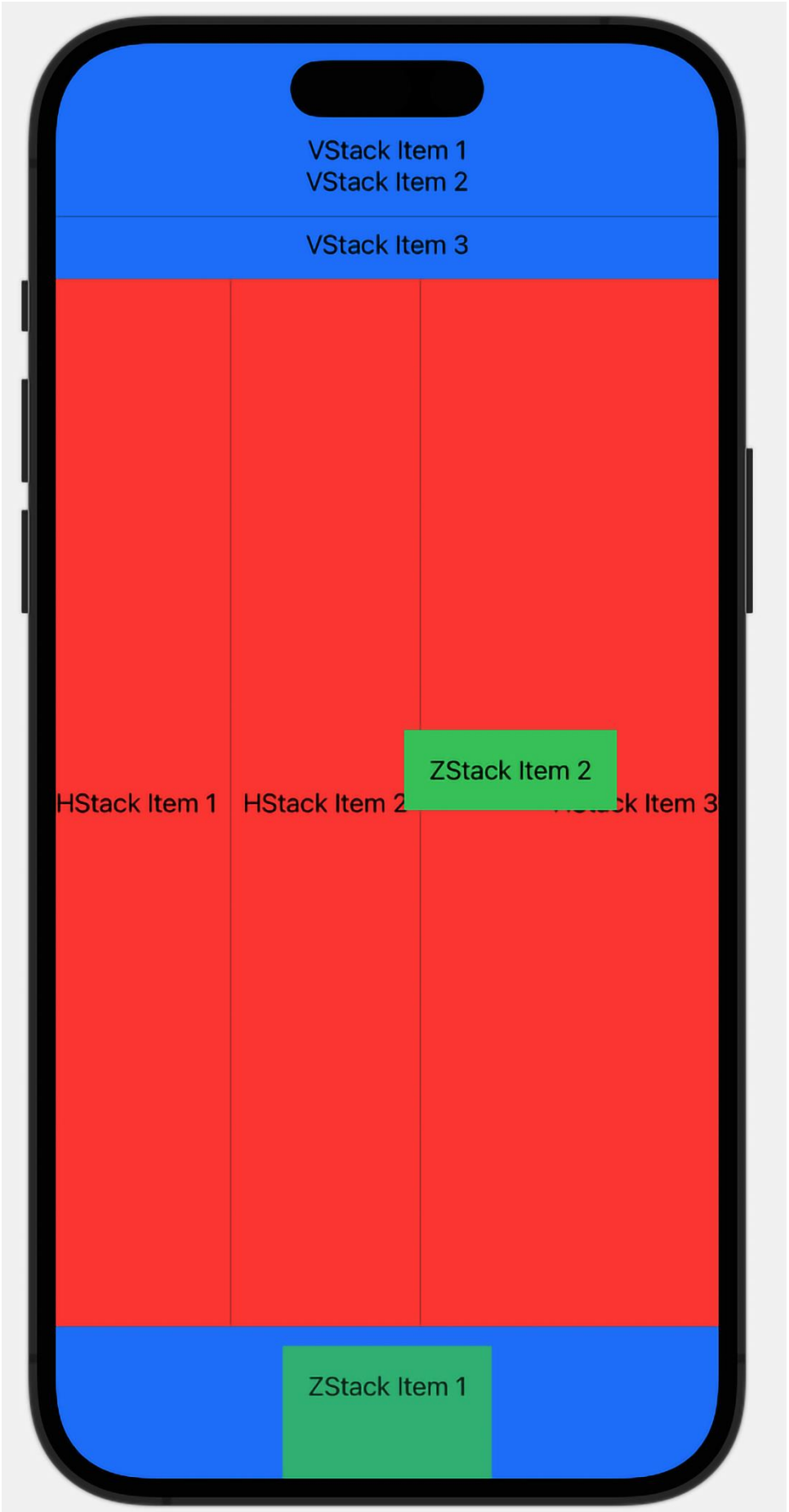
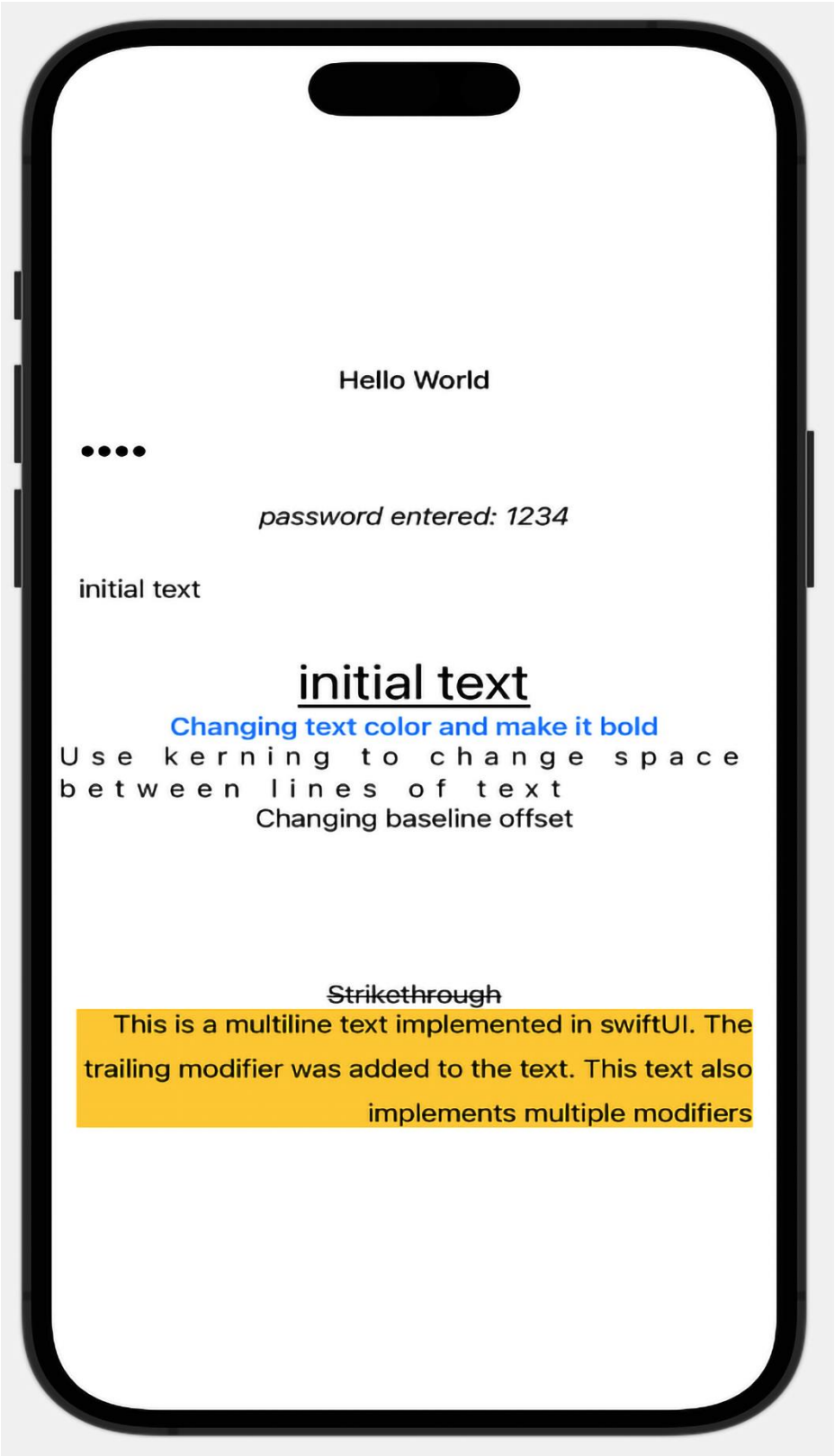
Chapter 1: Using the Basic SwiftUI Views and Controls




VStack Item 1
VStack Item 2
VStack Item 3

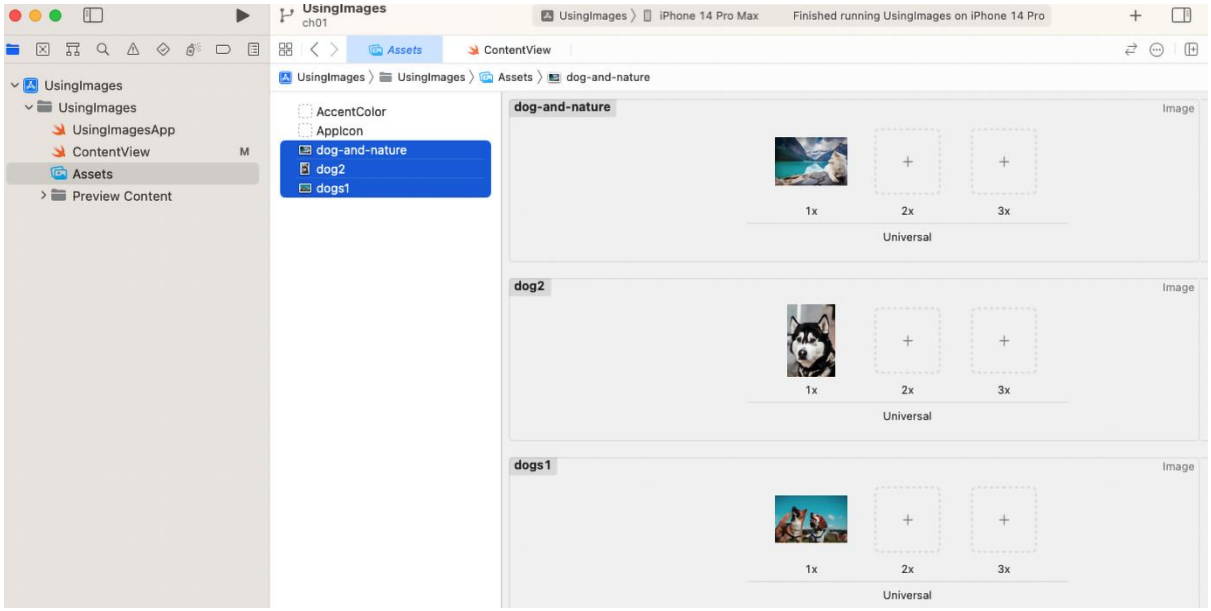

VStack Item 1
VStack Item 2
VStack Item 3
HStack Item 1
HStack Item 2
ZStack Item 2
ZStack Item 1

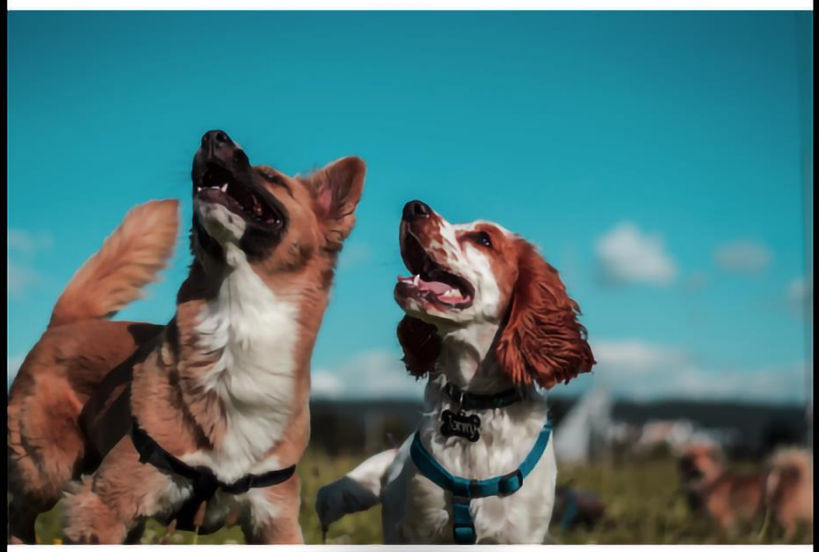

Hello World
password entered: 1234
initial text
initial text
Changing text color and make it bold
Use kerning to change space between lines of text
Changing baseline offset
Strikethrough
This is a multiline text implemented in swiftUI. The trailing modifier was added to the text. This text also implements multiple modifiers

```
15          Text("Hello World")
16              .fontWeight
17          SecureField("Er
18              .padding()
19          Text("password
20              .italic()
21          TextField("Ente
22              .padding()
23          Text(_someText.
24              .font(.larg
25              .underline(
26          Text("Changing
27              .foregrounc
28              .bold()
29          Text("Use kerning to change space between characters in the text")
30              .kerning(7)
```

font(_ font:)
bold()
bold(_ isActive:)
fontWeight(_ weight:)
padding(_ insets:)
padding(_ edges:_ length:)
tag(_ tag:)
accessibilityHeading(_ level:)

font(_ font: Font?) -> Text
Sets the default font for text in the view.







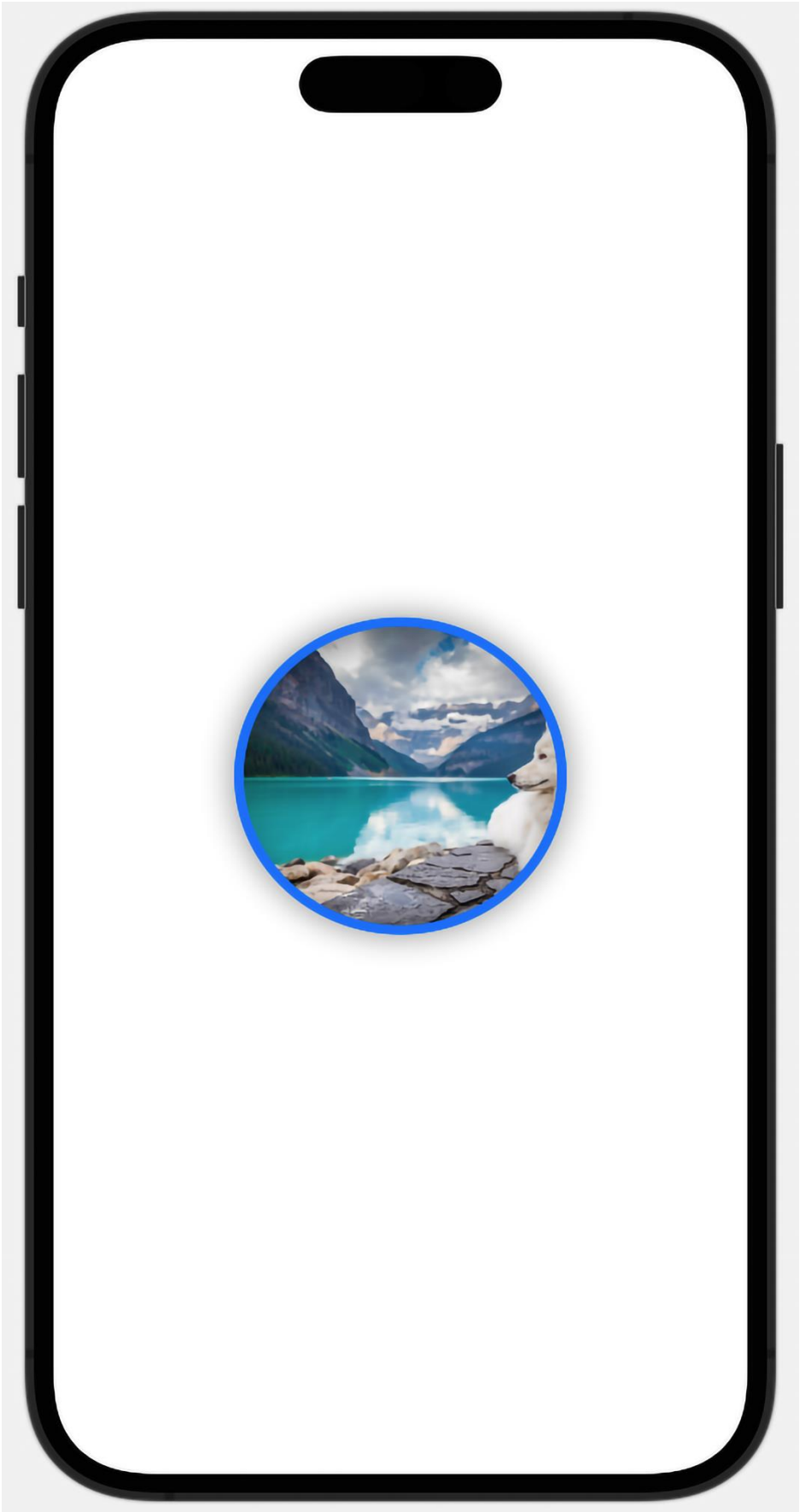


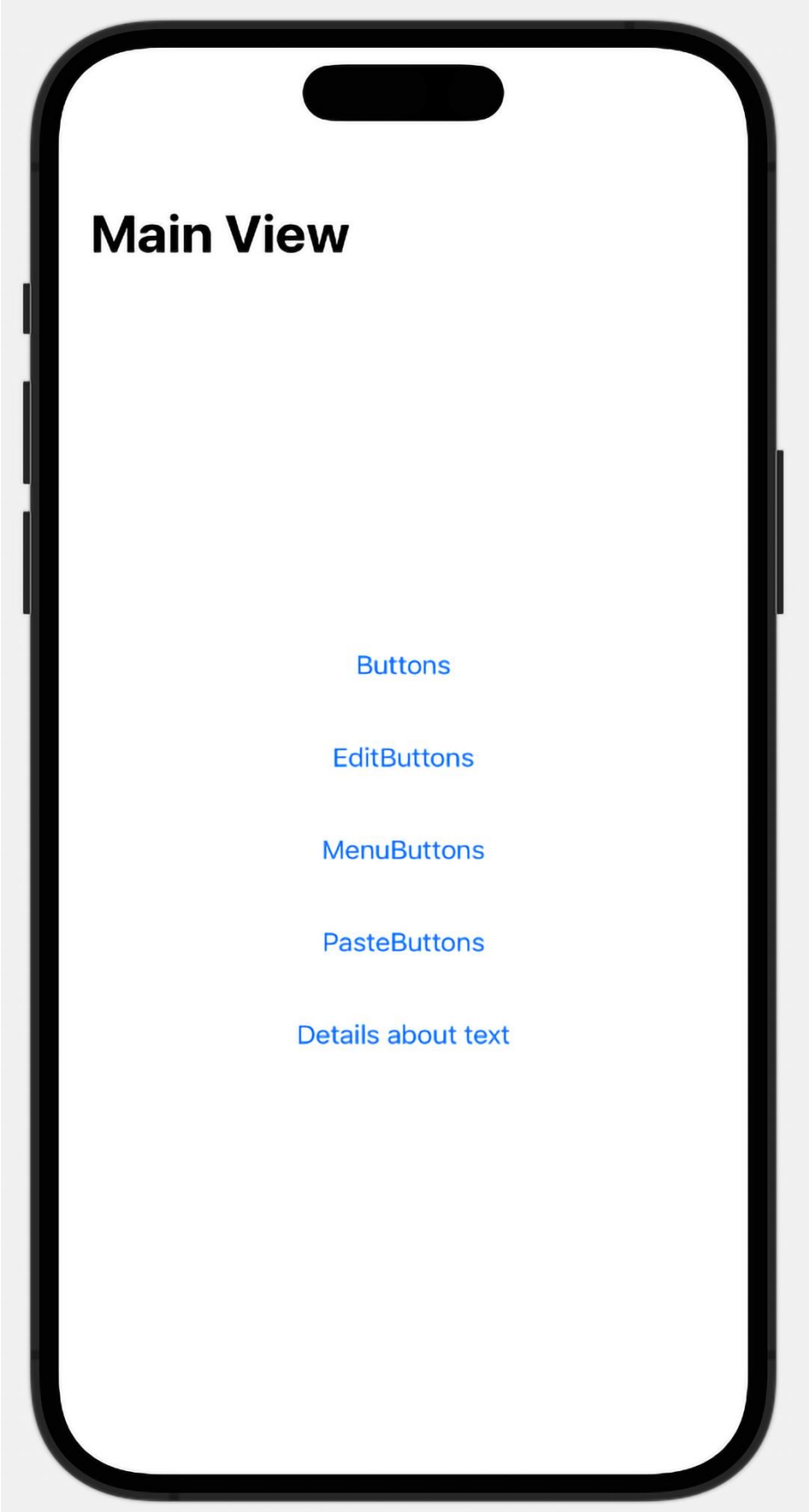


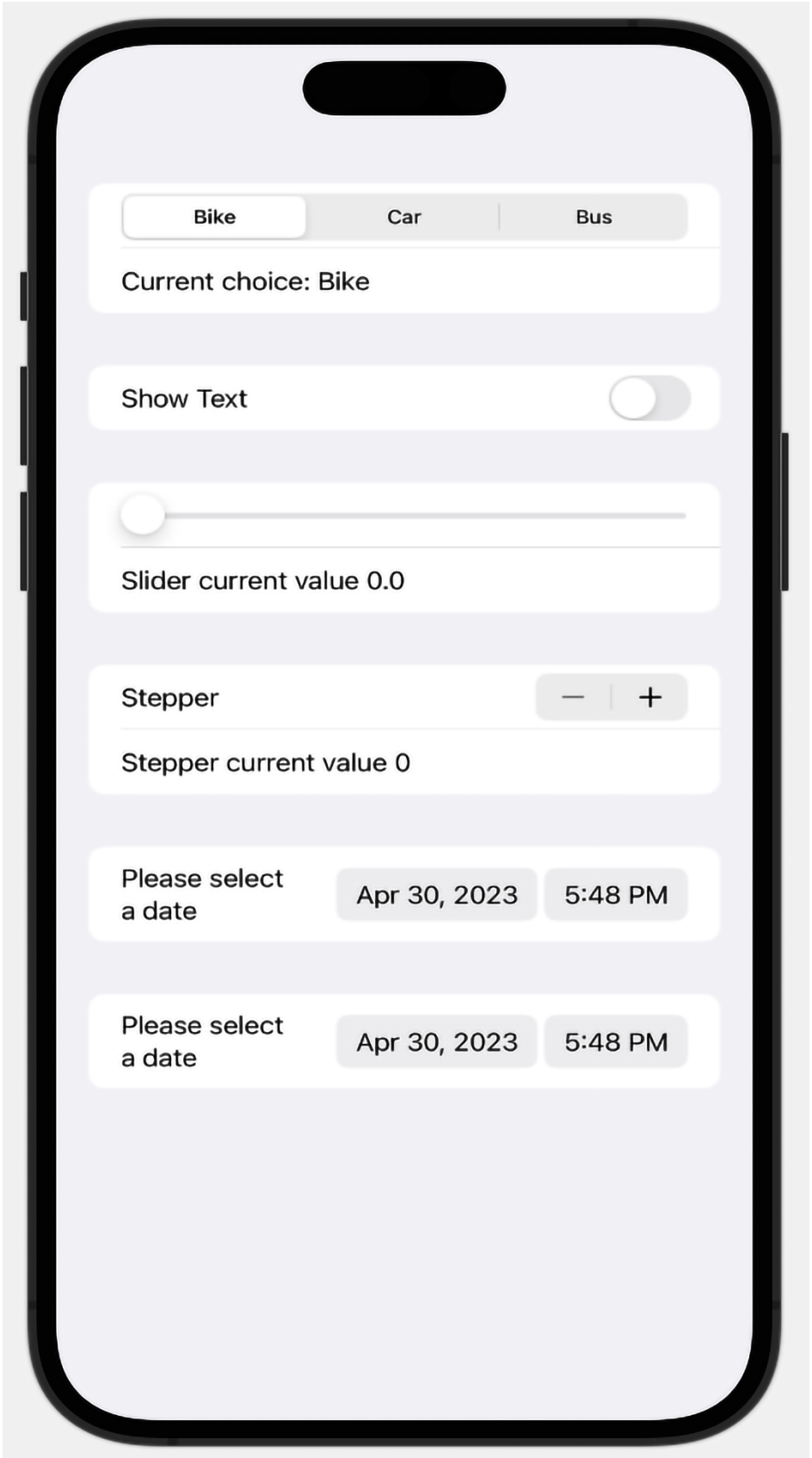


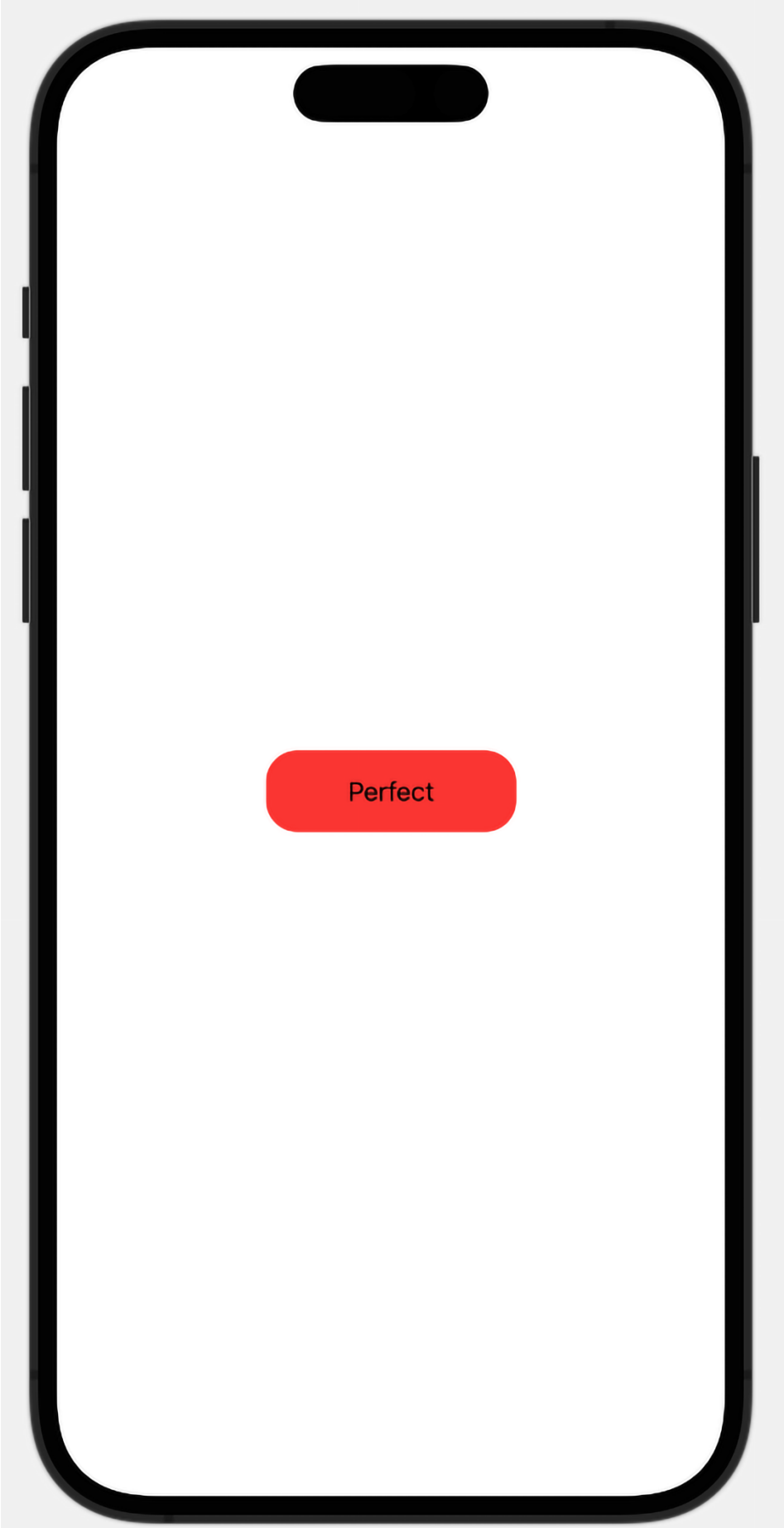


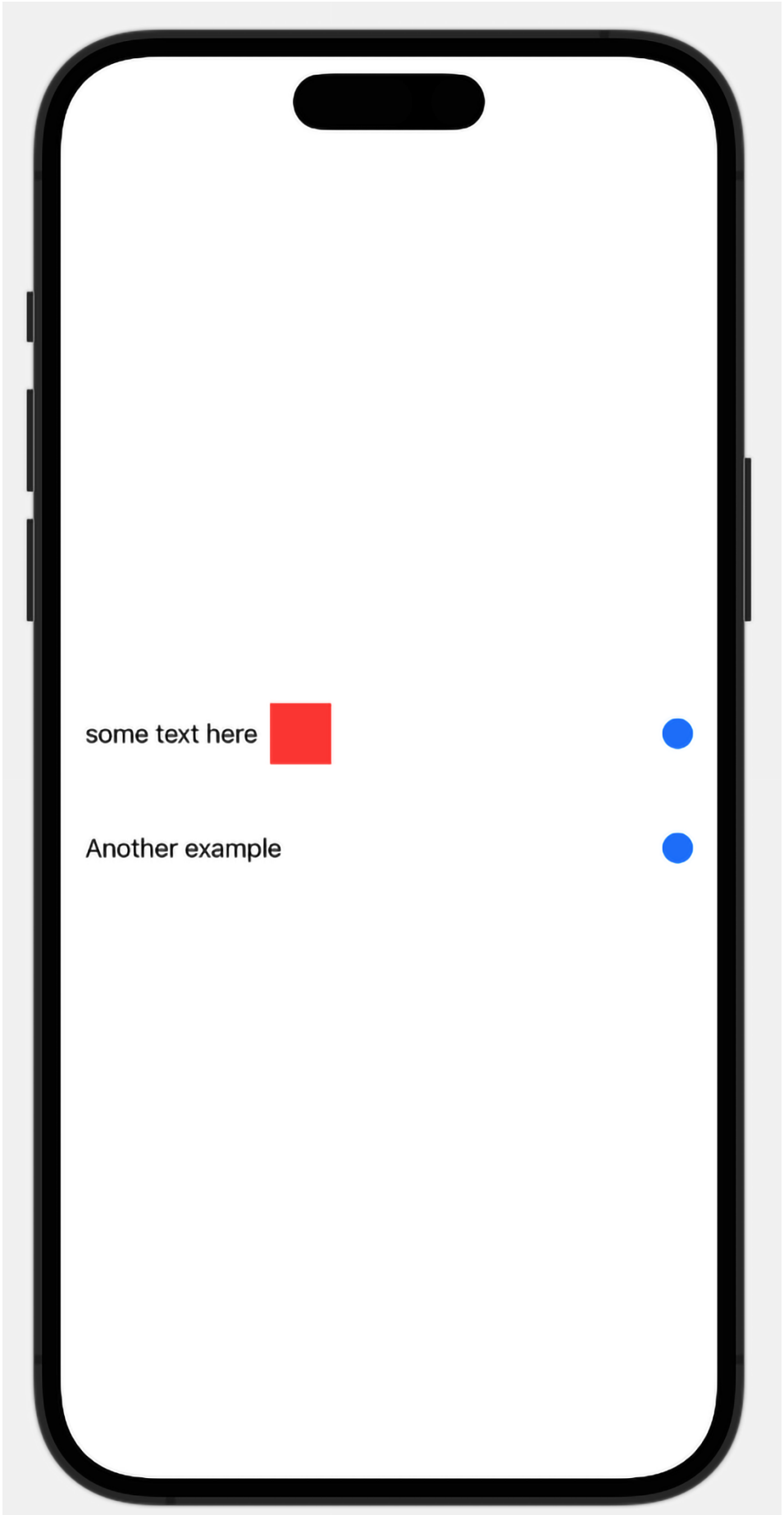


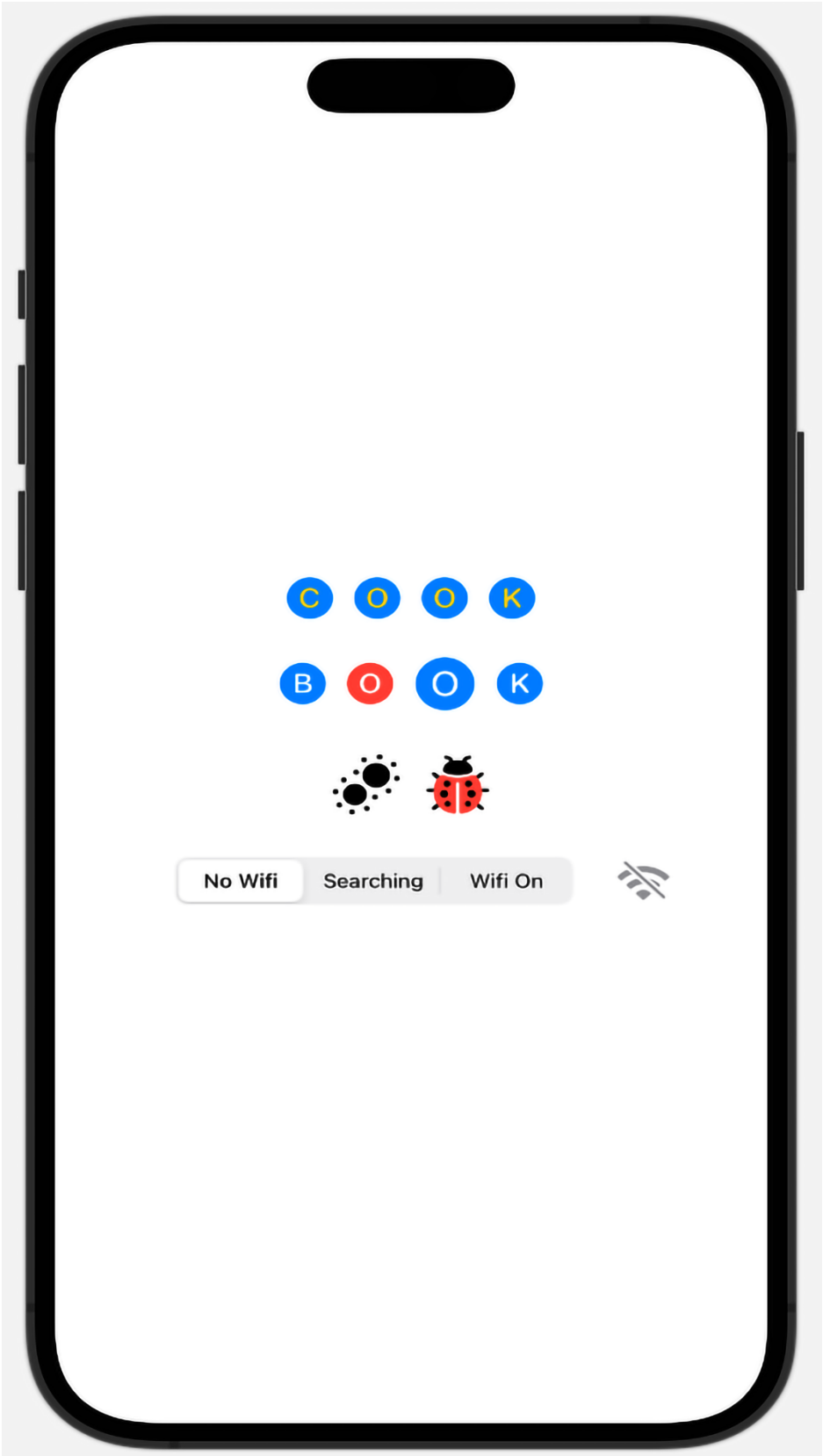


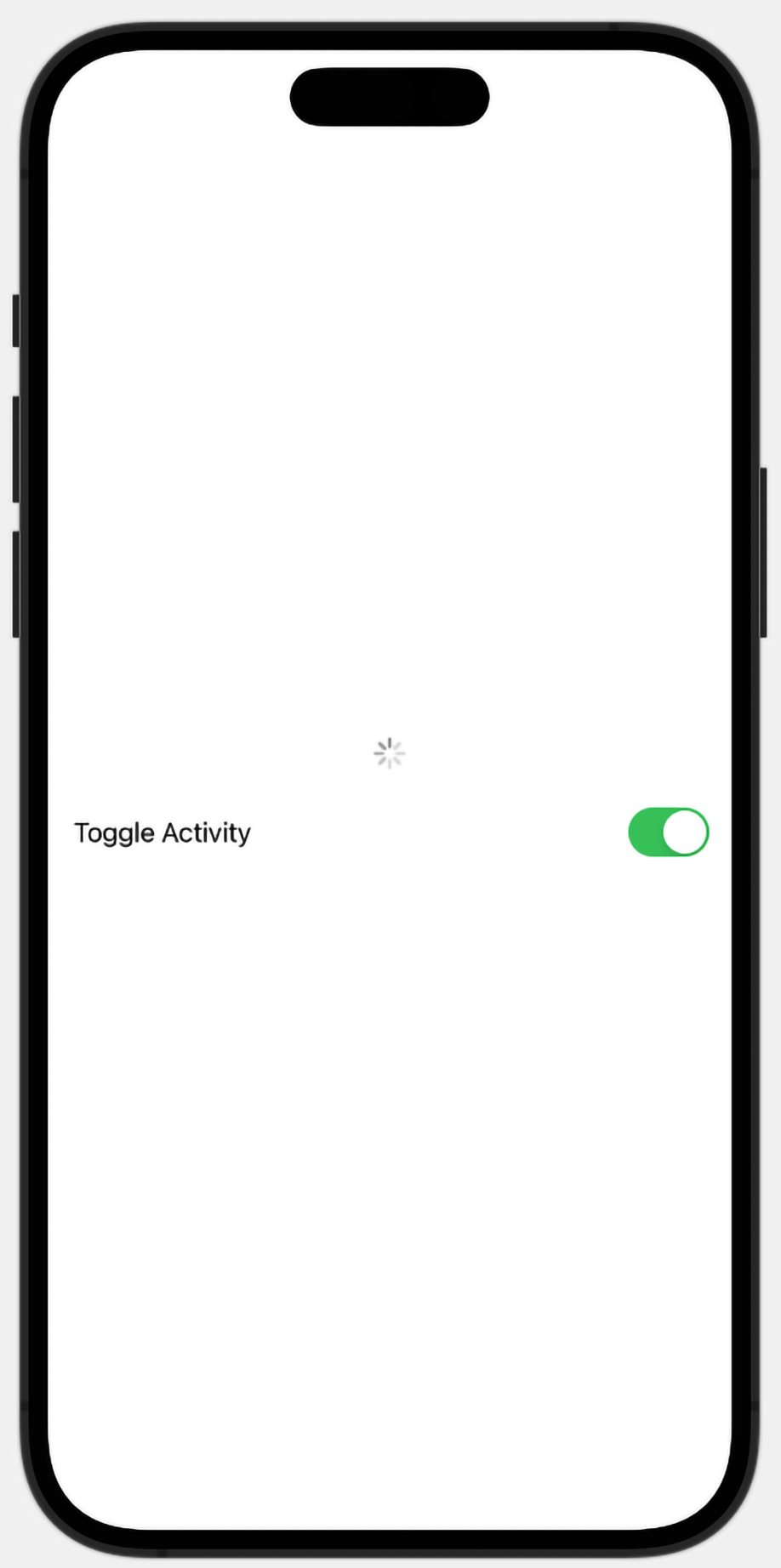

Main View
Buttons
EditButtons
MenuButtons
PasteButtons
Details about text

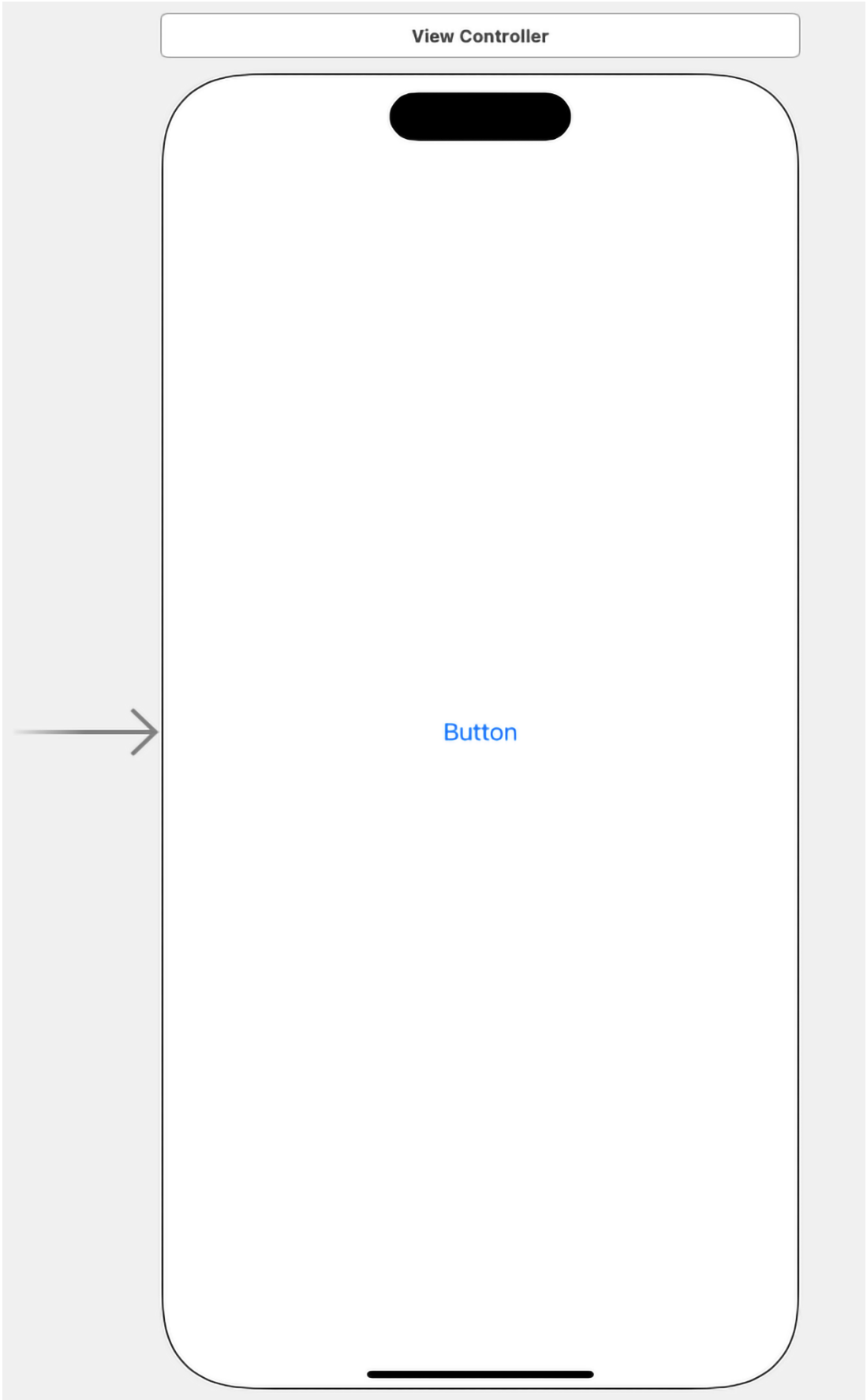

Bike
Car
Bus
Current choice: Bike
Show Text
Slider current value 0.0
Stepper
Stepper current value 0
Please select a date
Apr 30, 2023
5:48 PM
Please select a date
Apr 30, 2023
5:48 PM

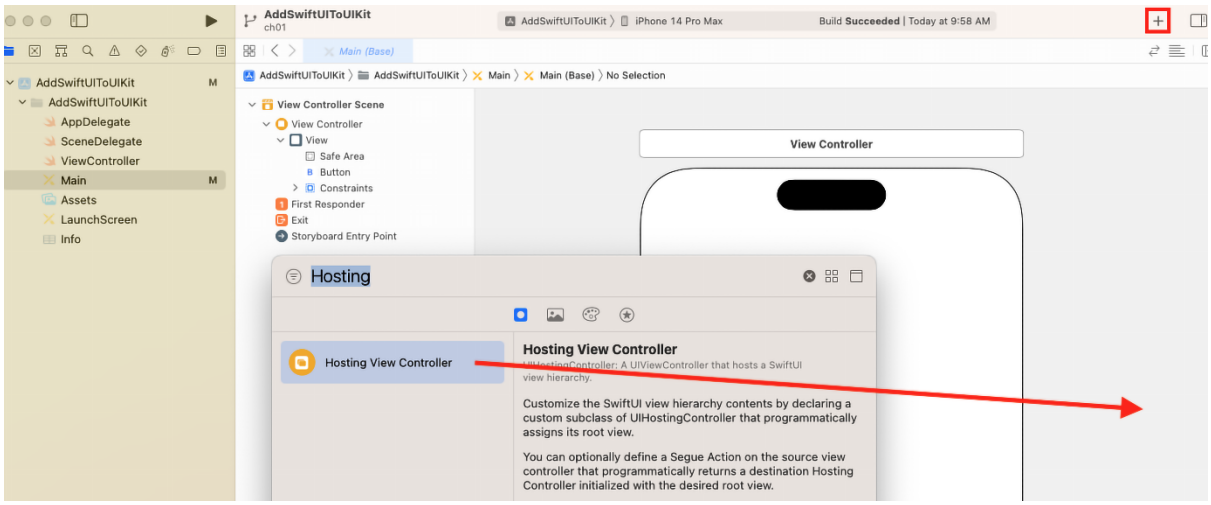

Perfect


some text here
Another example


C O O K
B O O K
No Wifi
Searching
Wifi On

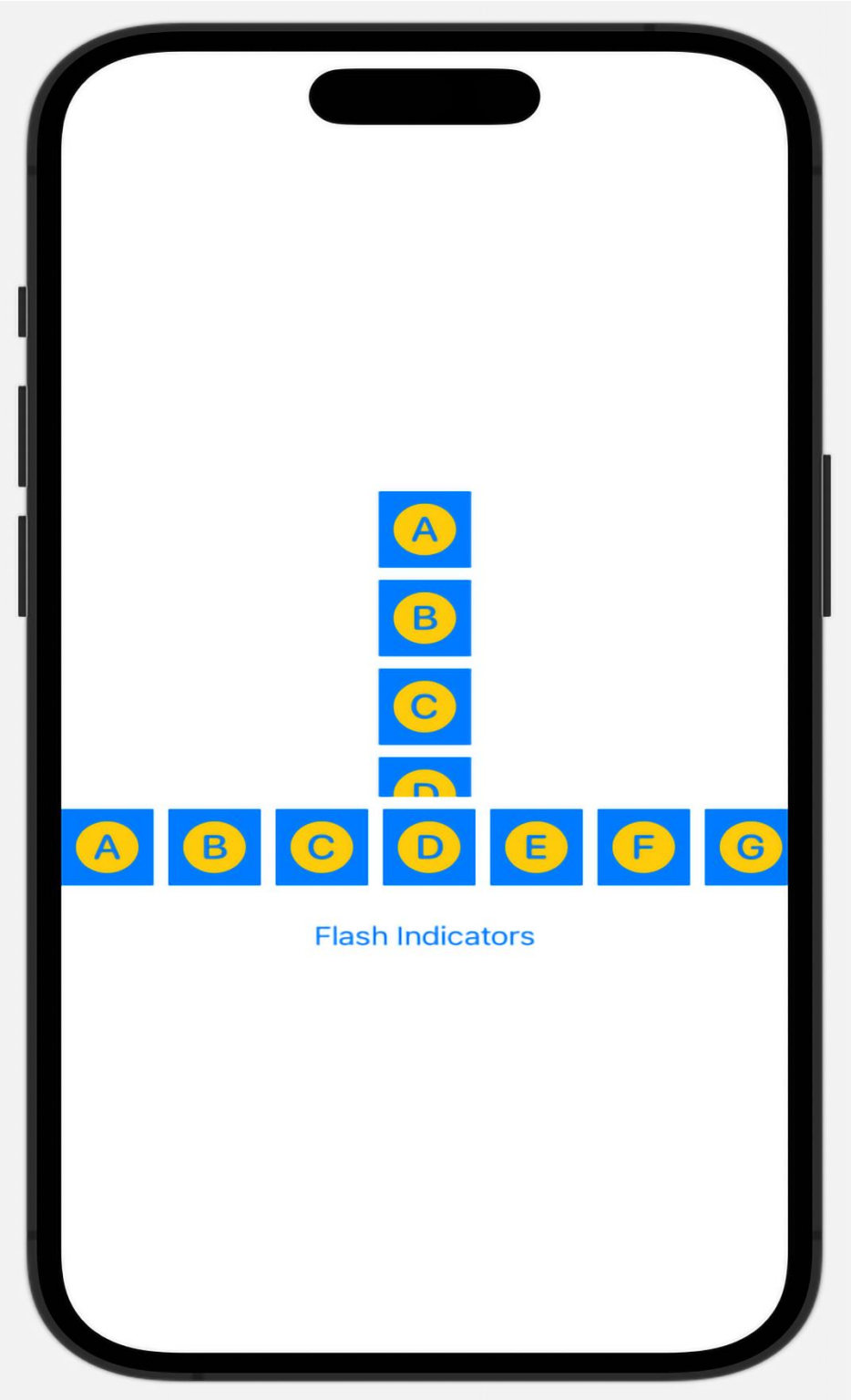

Toggle Activity

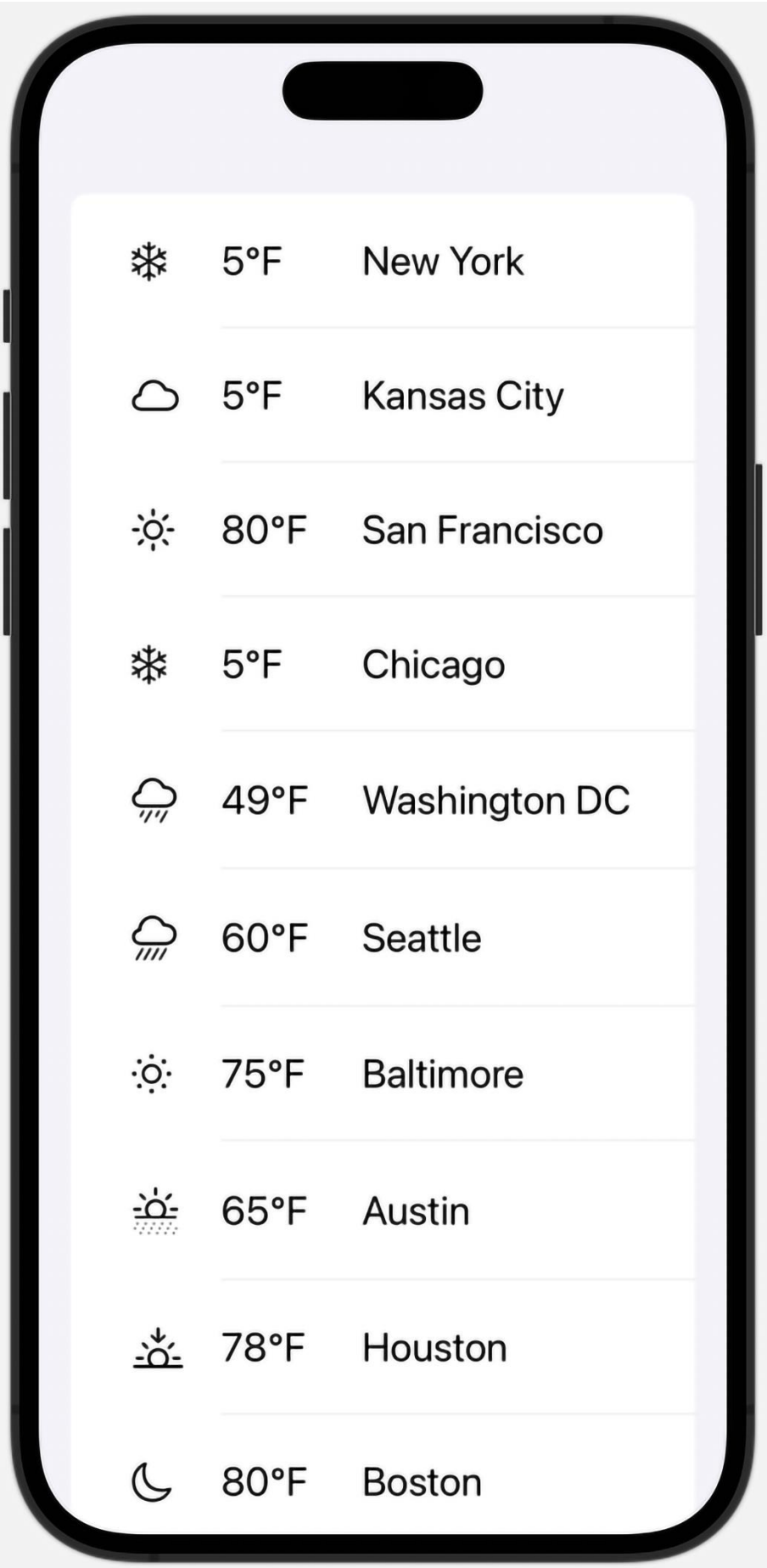

View Controller
Button


AddSwiftUIToUIKit
ch01
AddSwiftUIToUIKit 〉 iPhone 14 Pro Max
Build Succeeded | Today at 9:58 AM
Main (Base)
AddSwiftUIToUIKit 〉 AddSwiftUIToUIKit 〉 Main 〉 Main (Base) 〉 No Selection
AddSwiftUIToUIKit
AddSwiftUIToUIKit
AppDelegate
SceneDelegate
ViewController
Main
Assets
LaunchScreen
Info
View Controller Scene
View Controller
View
Safe Area
Button
Constraints
First Responder
Exit
Storyboard Entry Point
View Controller
Hosting
Hosting View Controller
Hosting View Controller
Customize the SwiftUI view hierarchy contents by declaring a custom subclass of UIHostingController that programmatically assigns its root view.
You can optionally define a Segue Action on the source view controller that programmatically returns a destination Hosting Controller initialized with the desired root view.

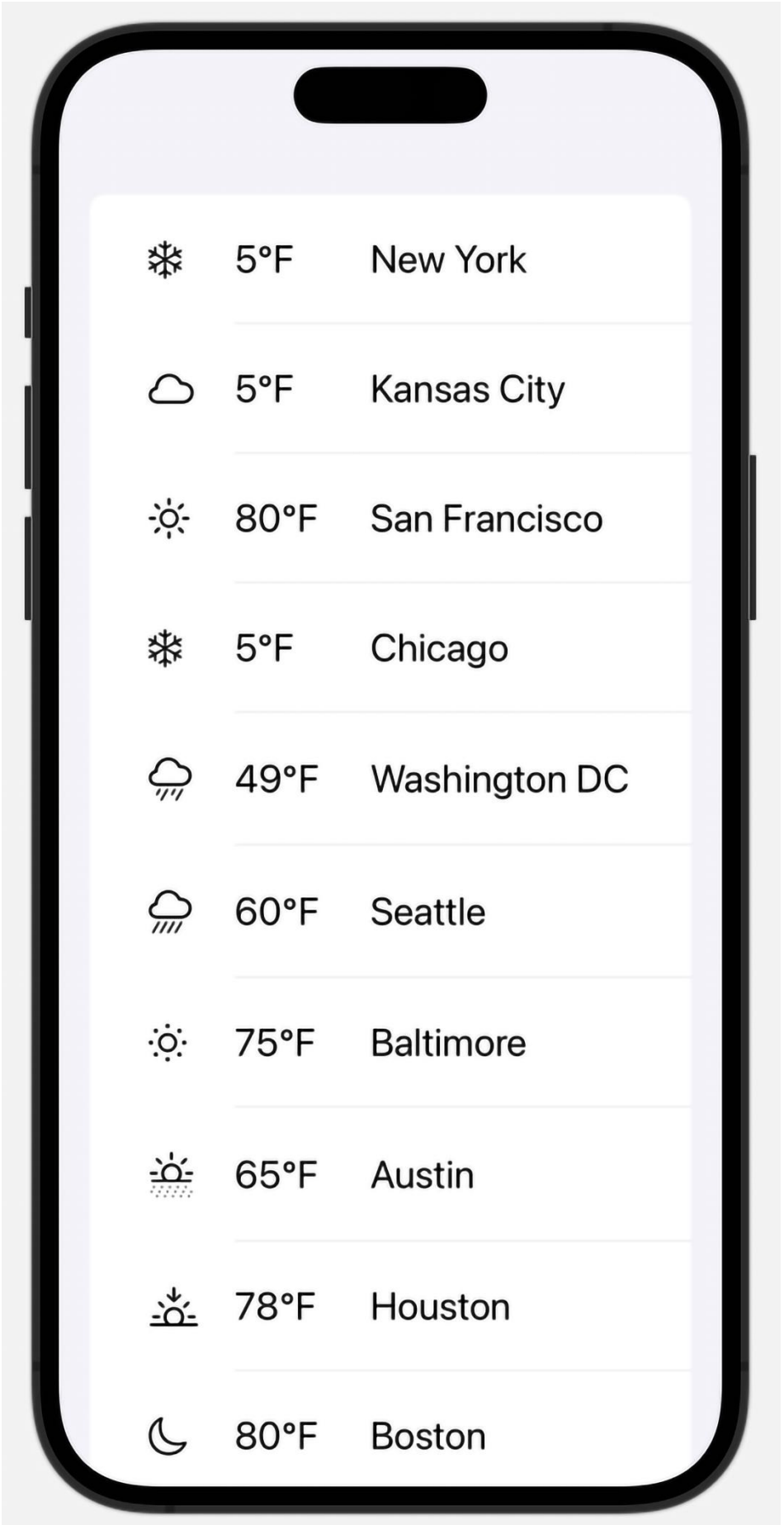


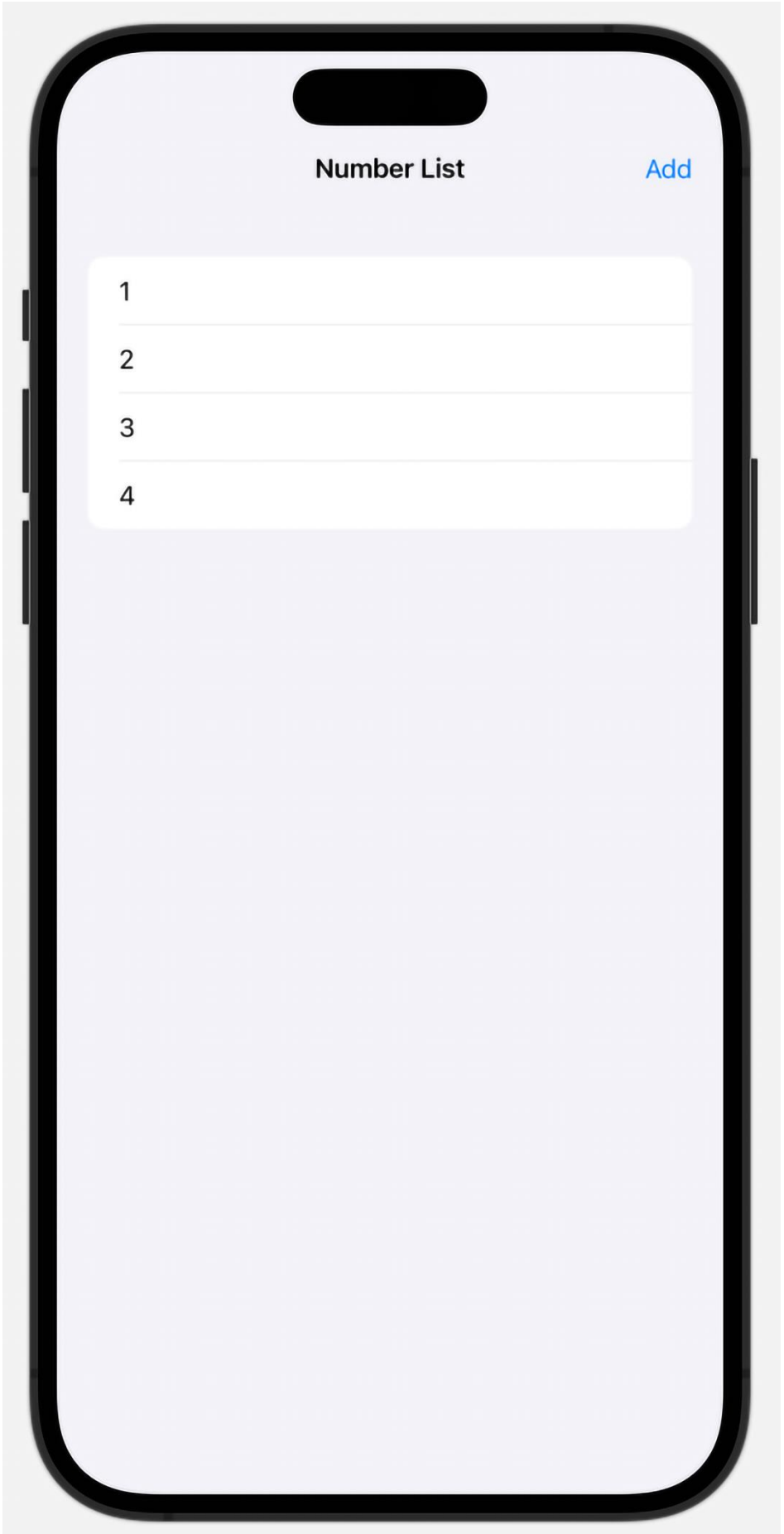
Chapter 2: Displaying Scrollable Content with Lists and Scroll Views

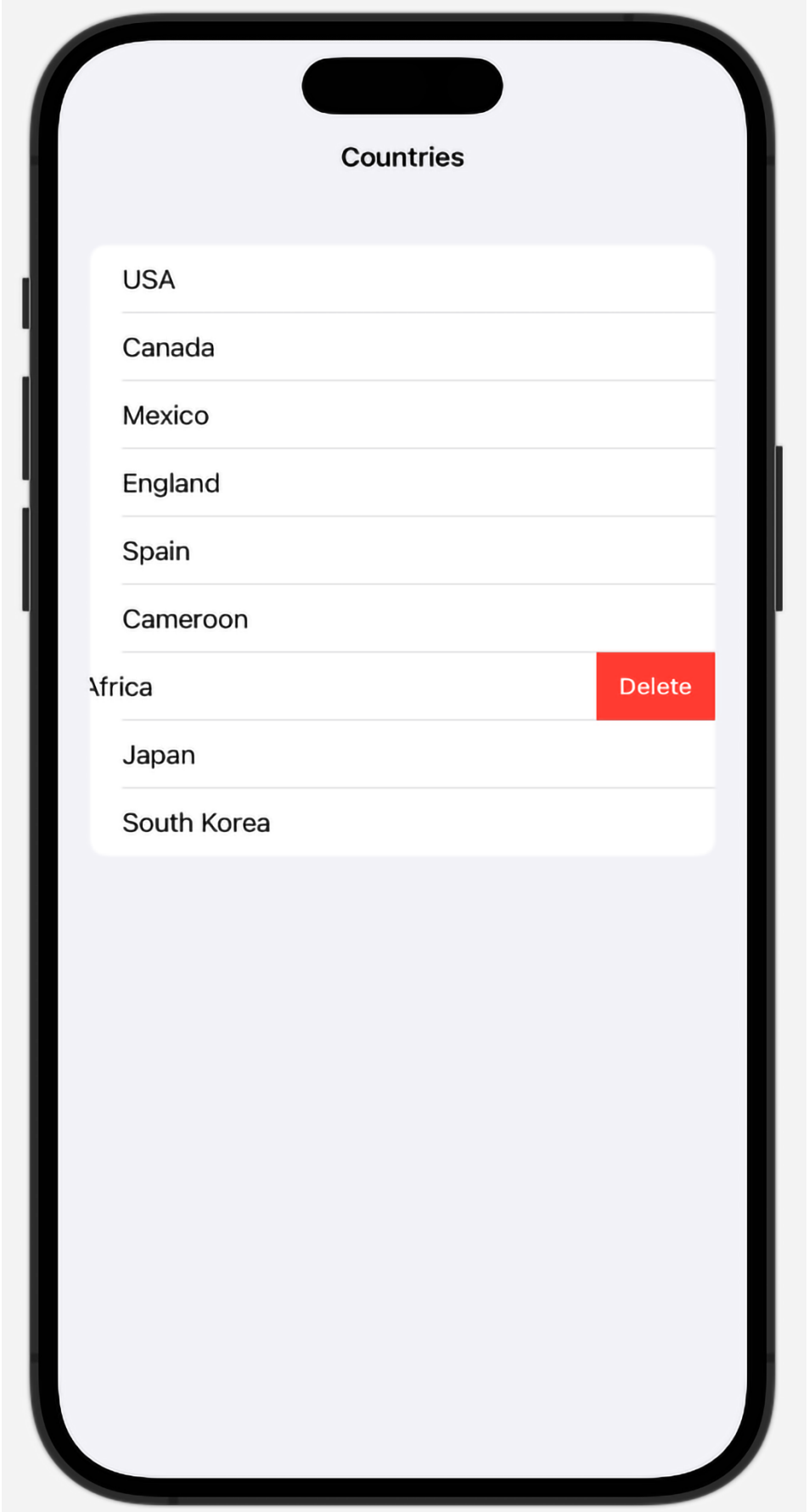


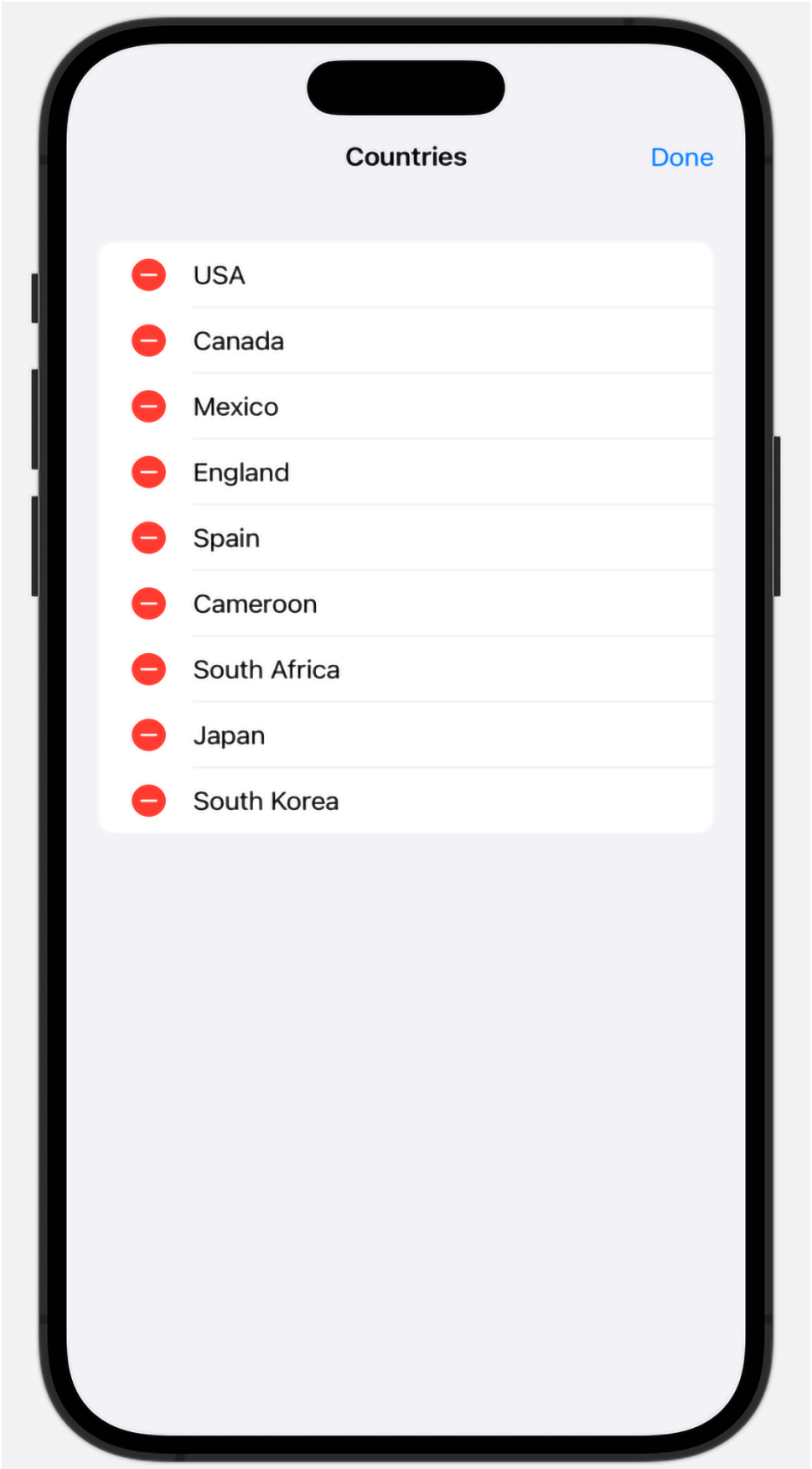

5°F New York
5°F Kansas City
80°F San Francisco
5°F Chicago
49°F Washington DC
60°F Seattle
75°F Baltimore
65°F Austin
78°F Houston
80°F Boston

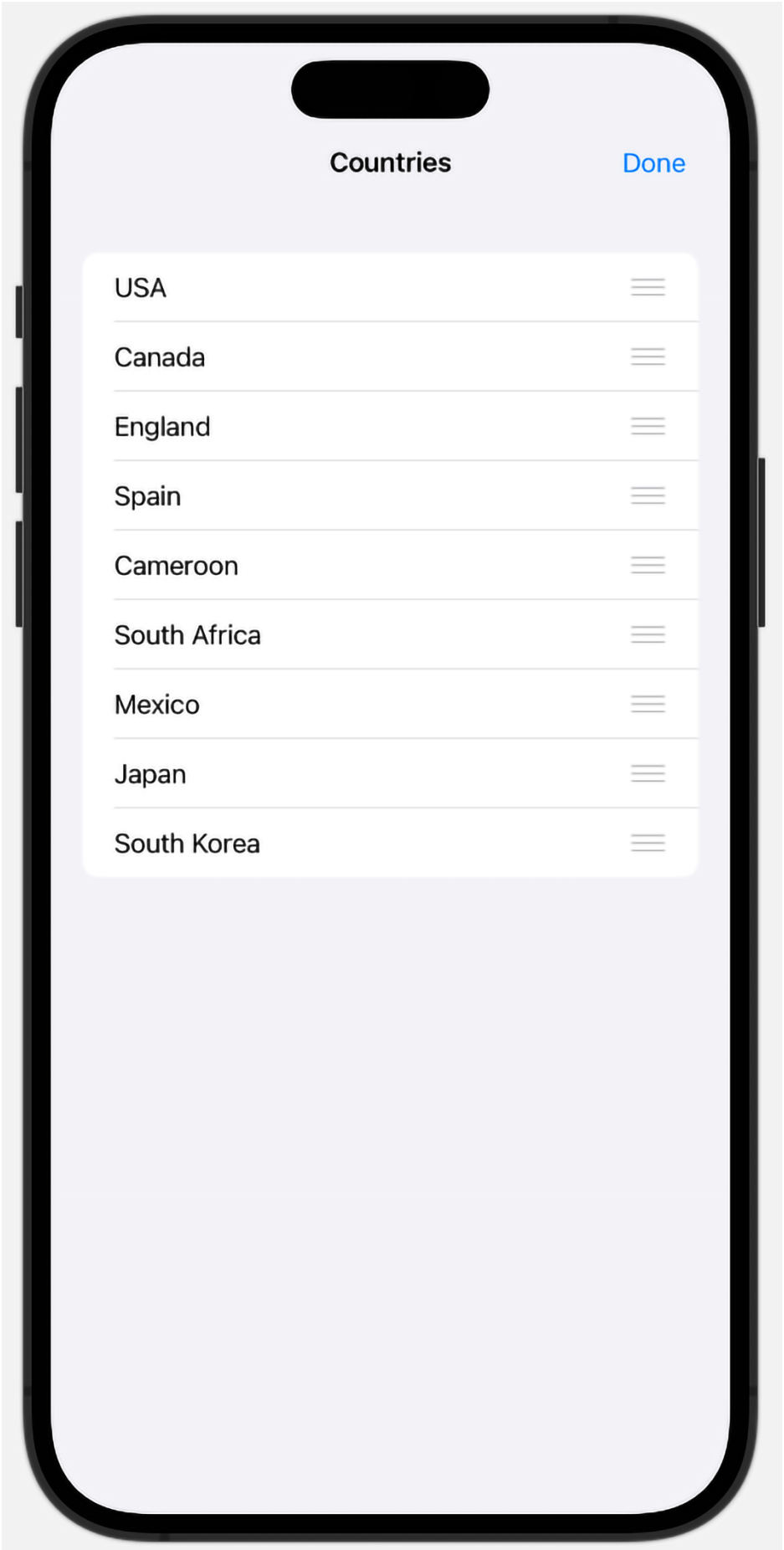

5°F
New York

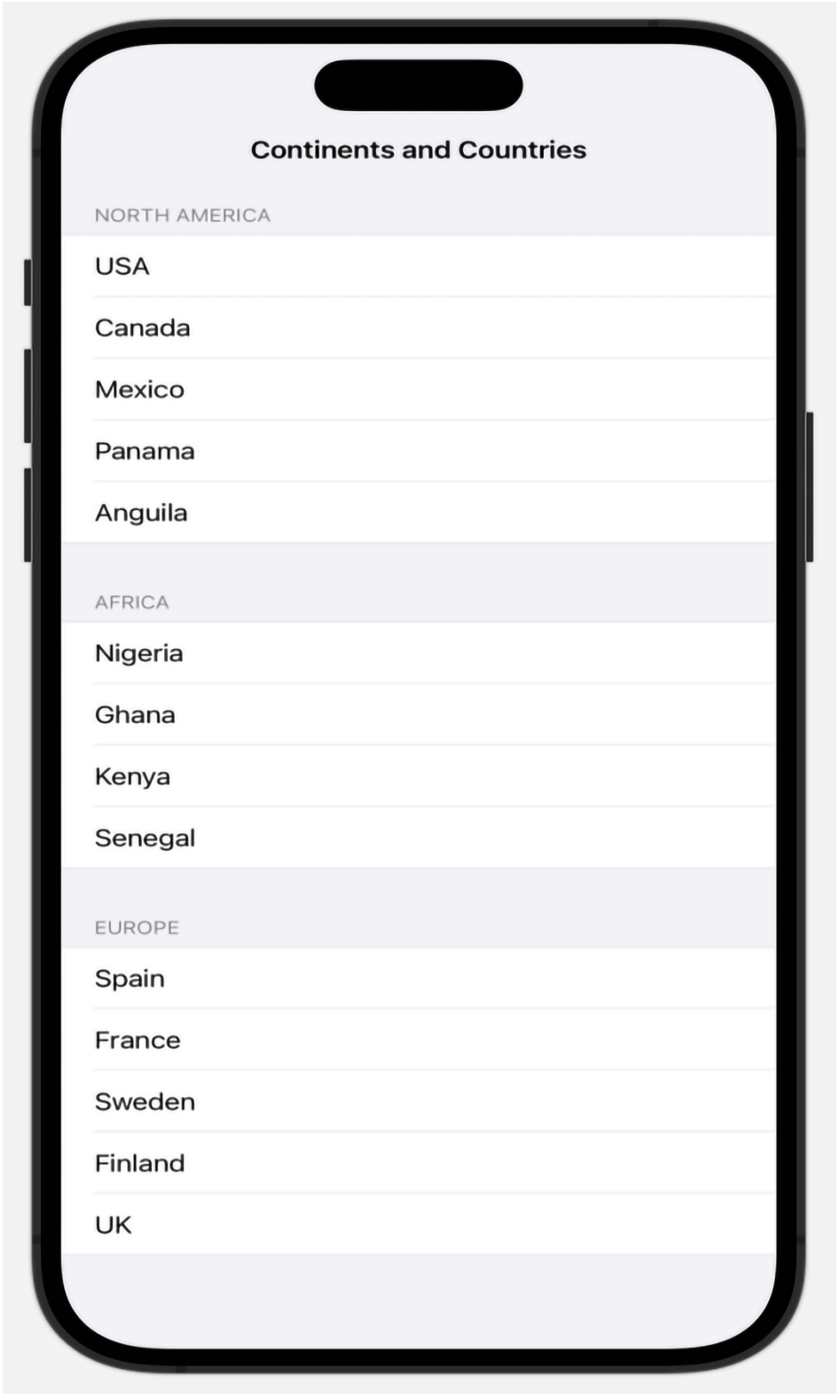

5°F New York
5°F Kansas City
80°F San Francisco
5°F Chicago
49°F Washington DC
60°F Seattle
75°F Baltimore
65°F Austin
78°F Houston
80°F Boston

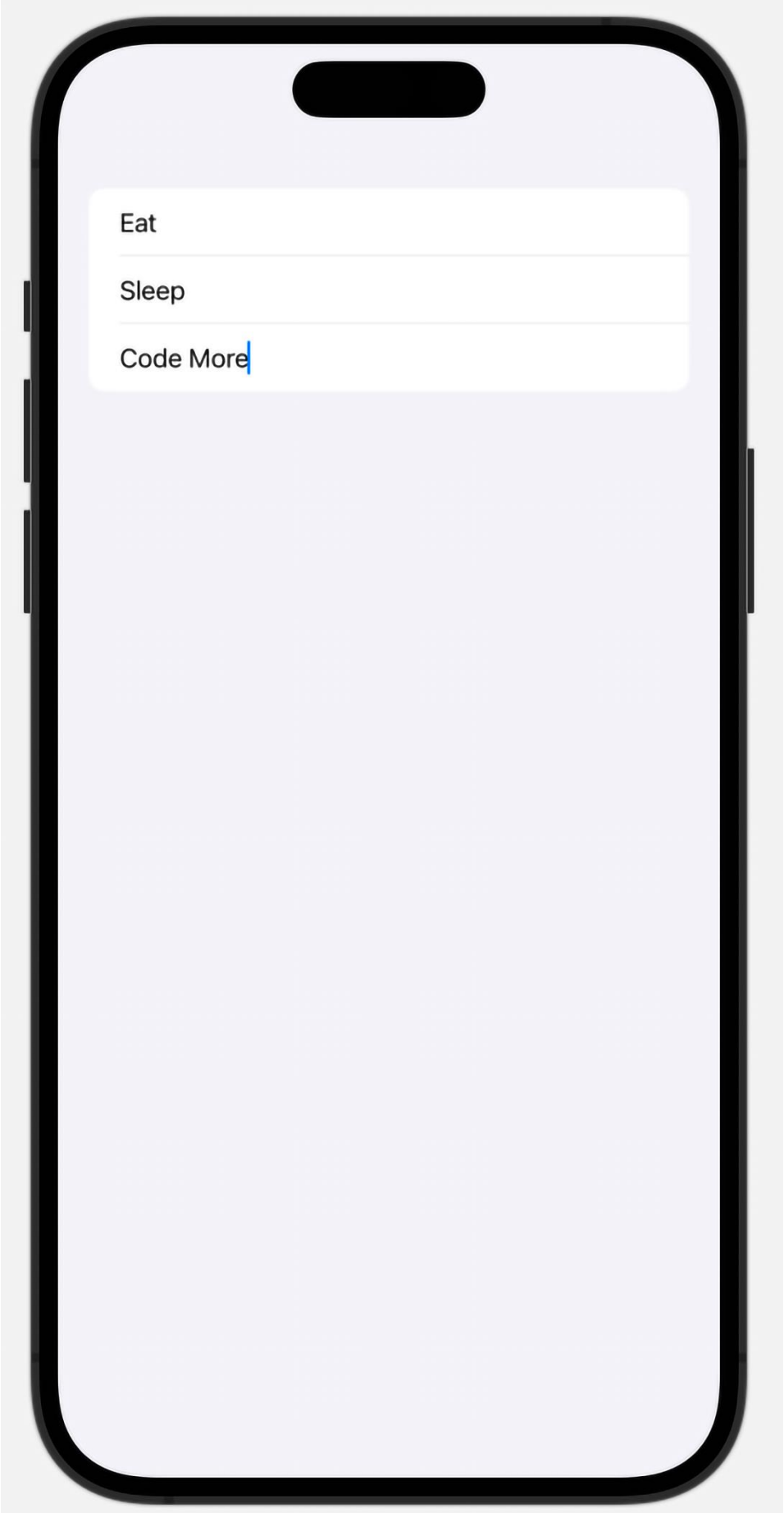

Number List
Add
1
2
3
4

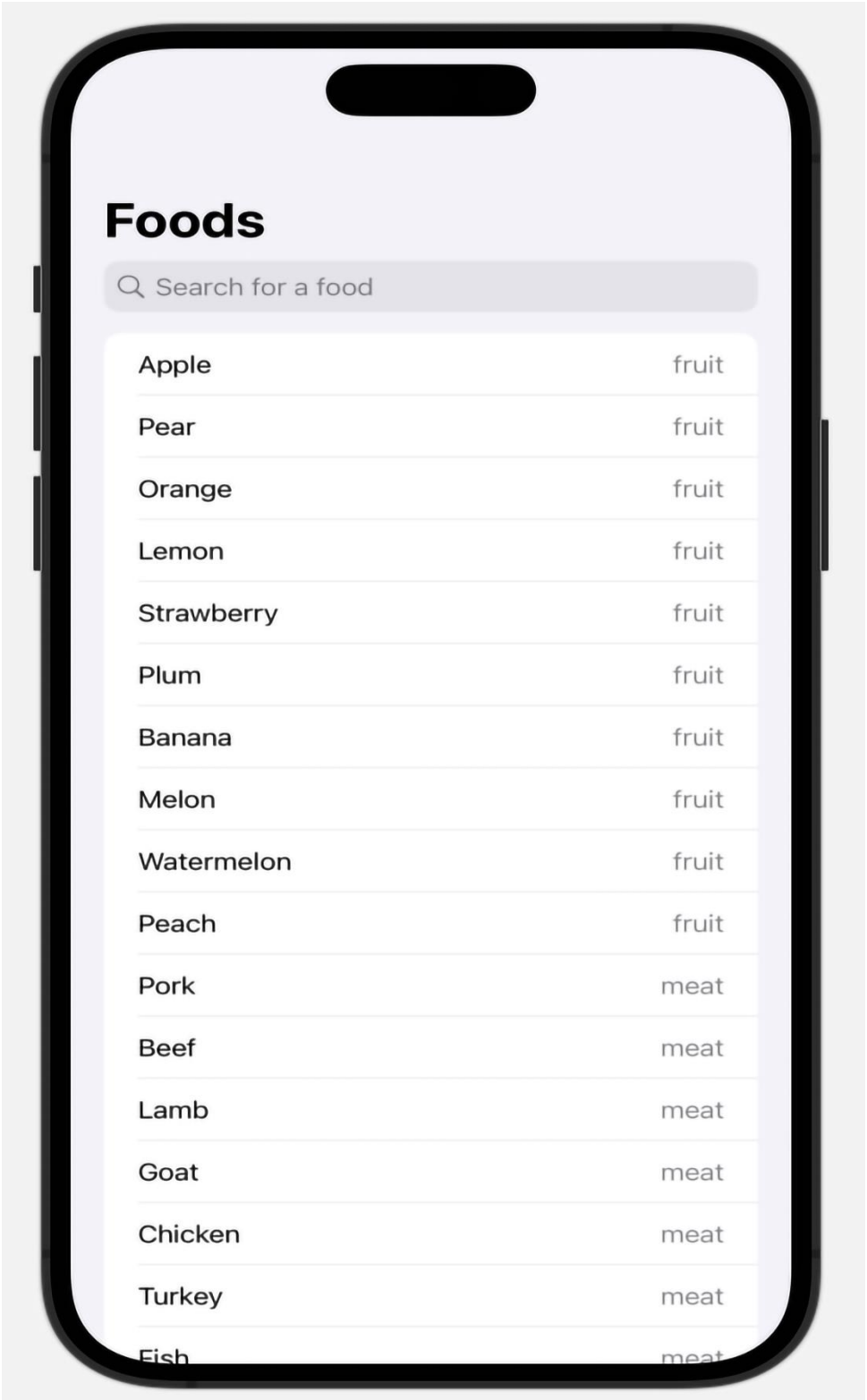

Countries
USA
Canada
Mexico
England
Spain
Cameroon
Africa
Delete
Japan
South Korea

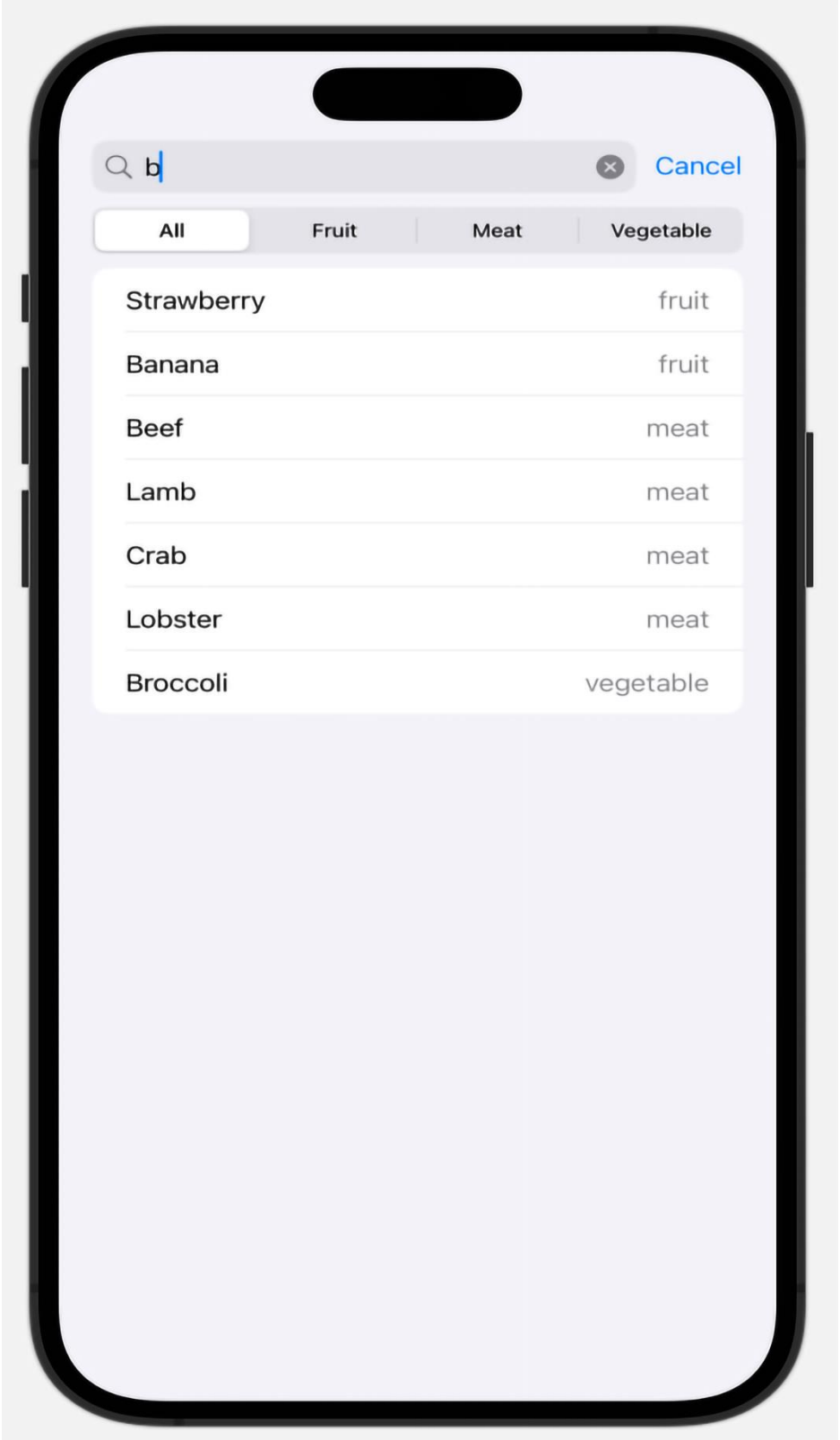

Countries
Done
USA
Canada
Mexico
England
Spain
Cameroon
South Africa
Japan
South Korea


Countries
Done
USA
Canada
England
Spain
Cameroon
South Africa
Mexico
Japan
South Korea

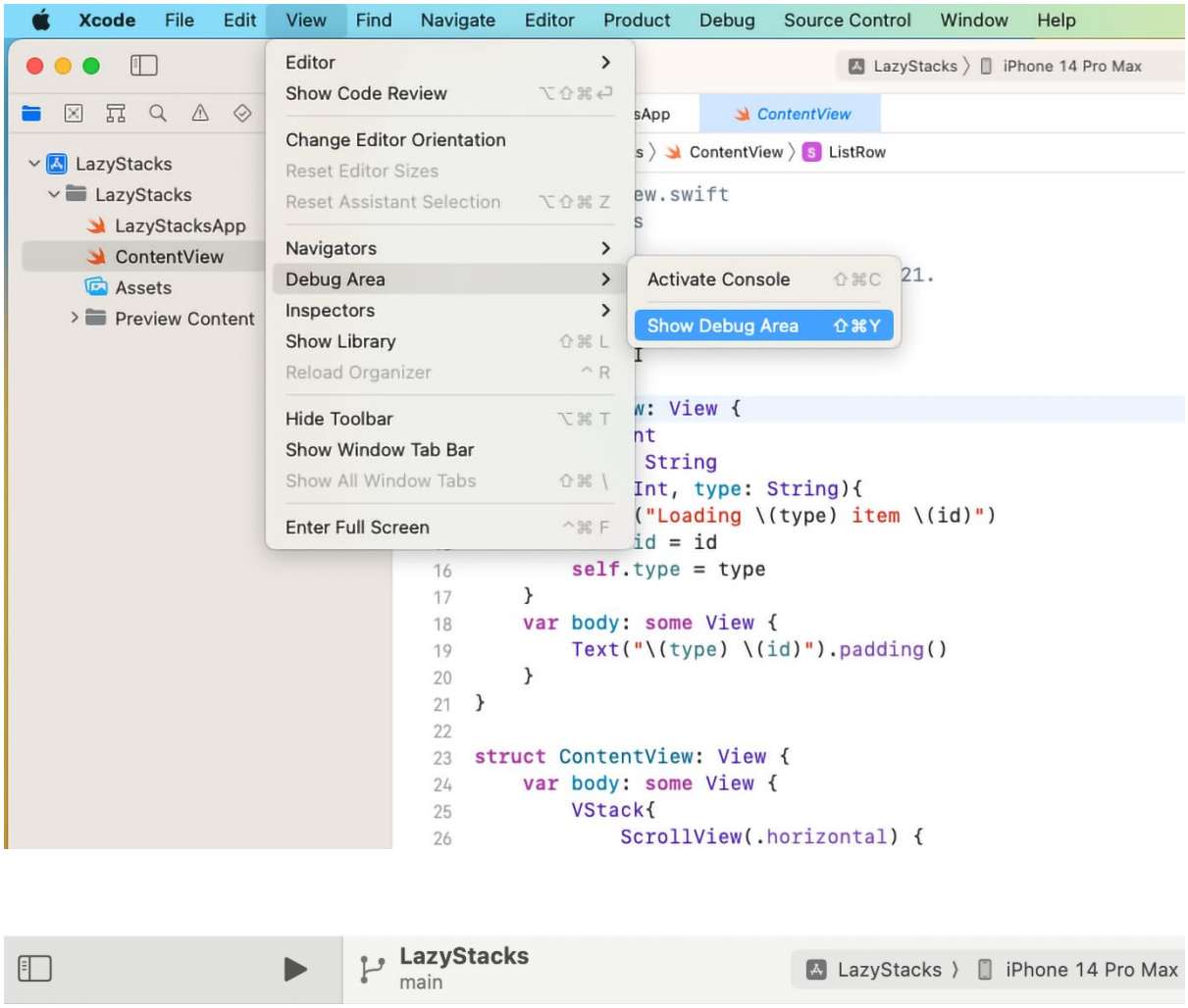

Continents and Countries
NORTH AMERICA
USA
Canada
Mexico
Panama
Anguila
AFRICA
Nigeria
Ghana
Kenya
Senegal
EUROPE
Spain
France
Sweden
Finland
UK

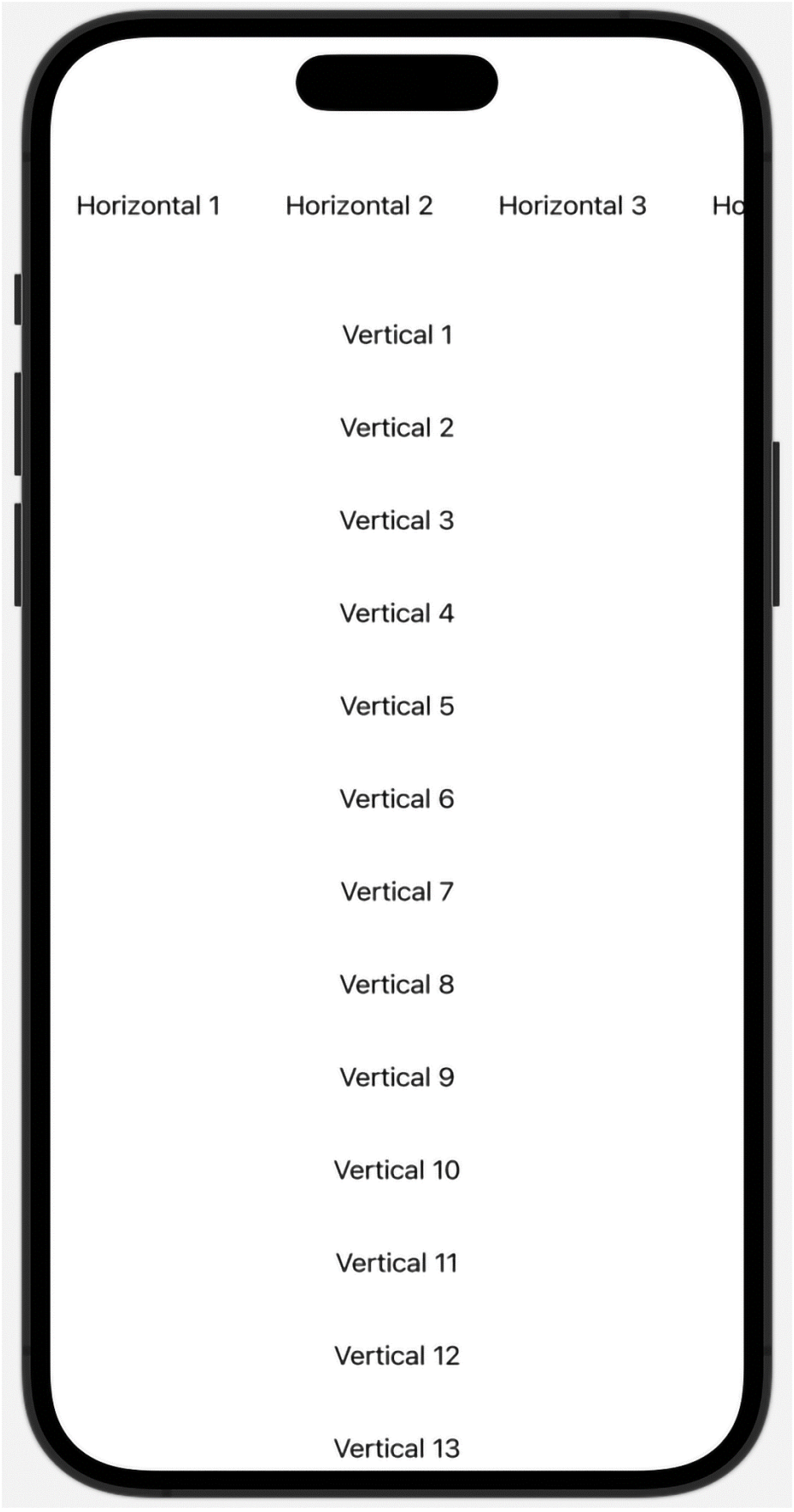

Eat
Sleep
Code More

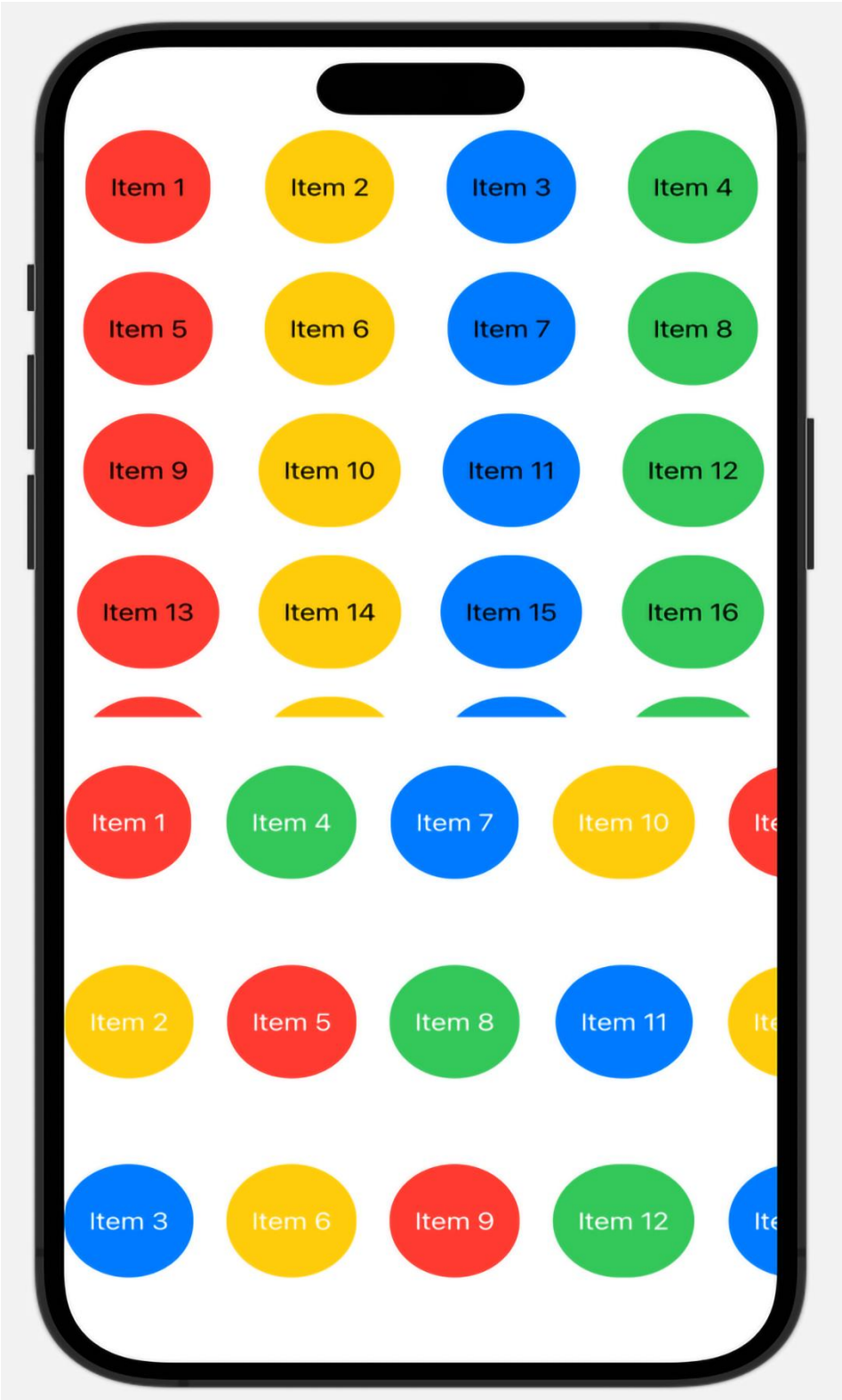

Foods
Search for a food
Apple fruit
Pear fruit
Orange fruit
Lemon fruit
Strawberry fruit
Plum fruit
Banana fruit
Melon fruit
Watermelon fruit
Peach fruit
Pork meat
Beef meat
Lamb meat
Goat meat
Chicken meat
Turkey meat
Fish meat

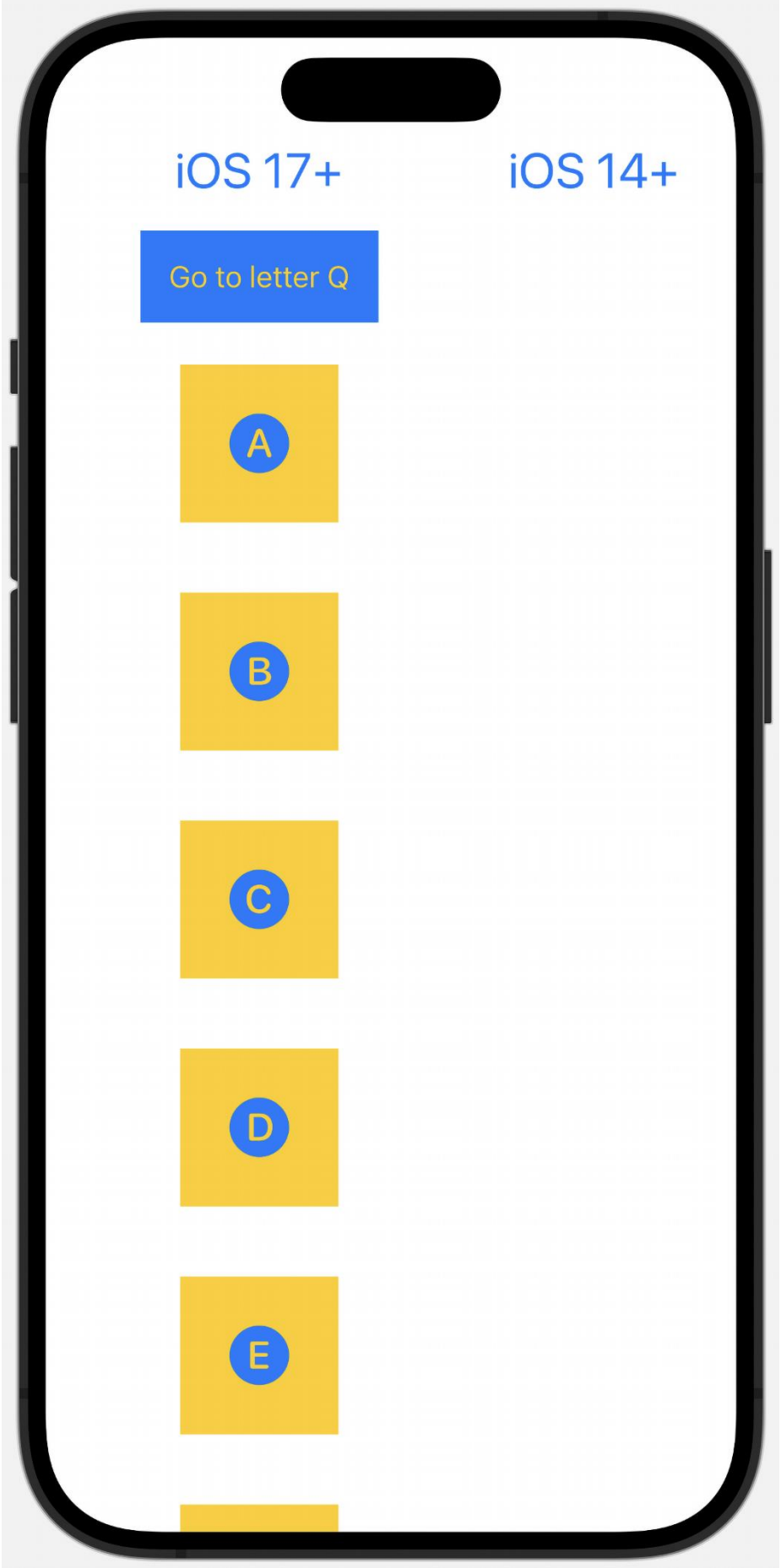

b
Cancel
All
Fruit
Meat
Vegetable
Strawberry
fruit
Banana
fruit
Beef
meat
Lamb
meat
Crab
meat
Lobster
meat
Broccoli
vegetable

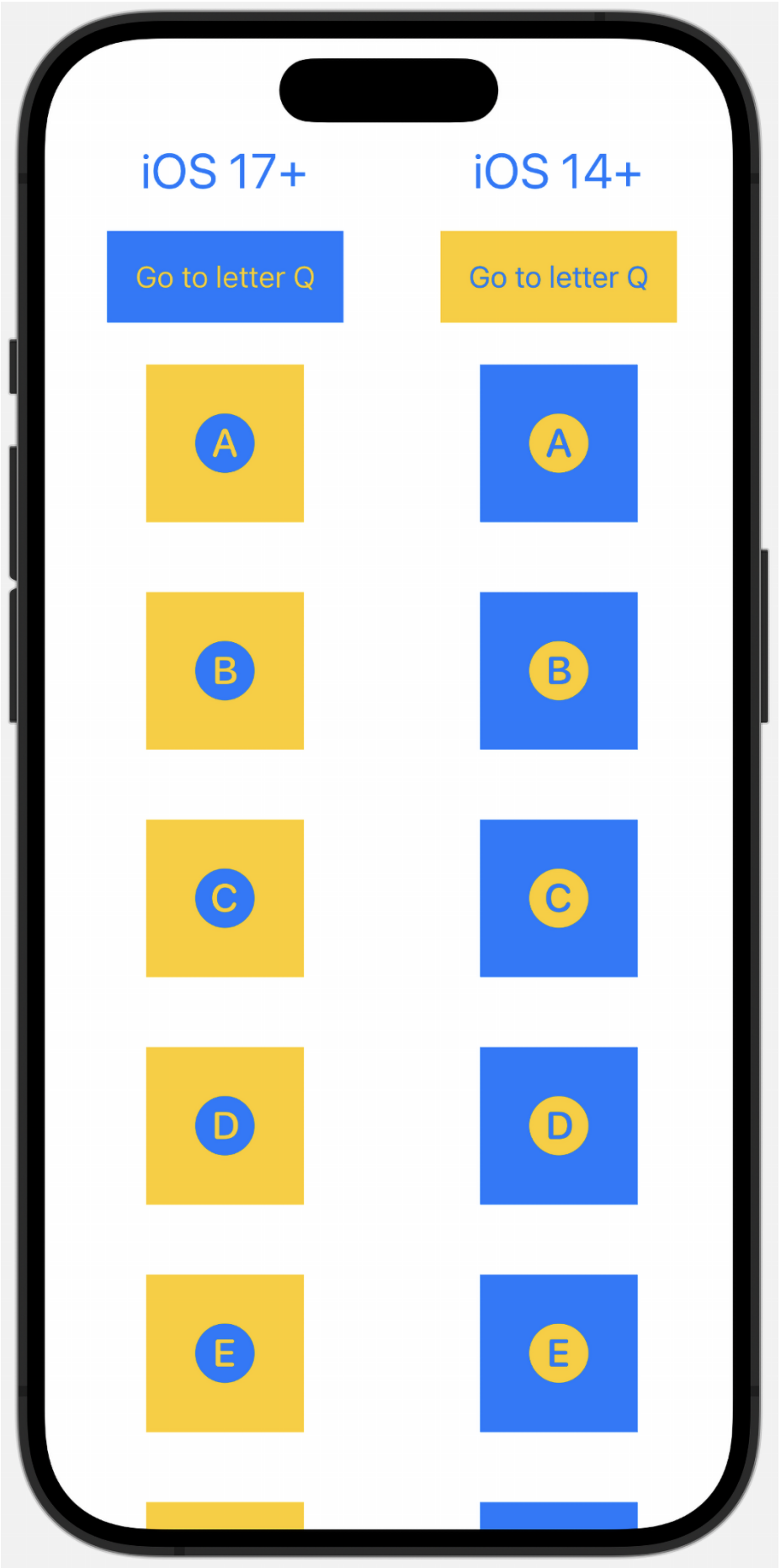
Chapter 3: Exploring Advanced Components

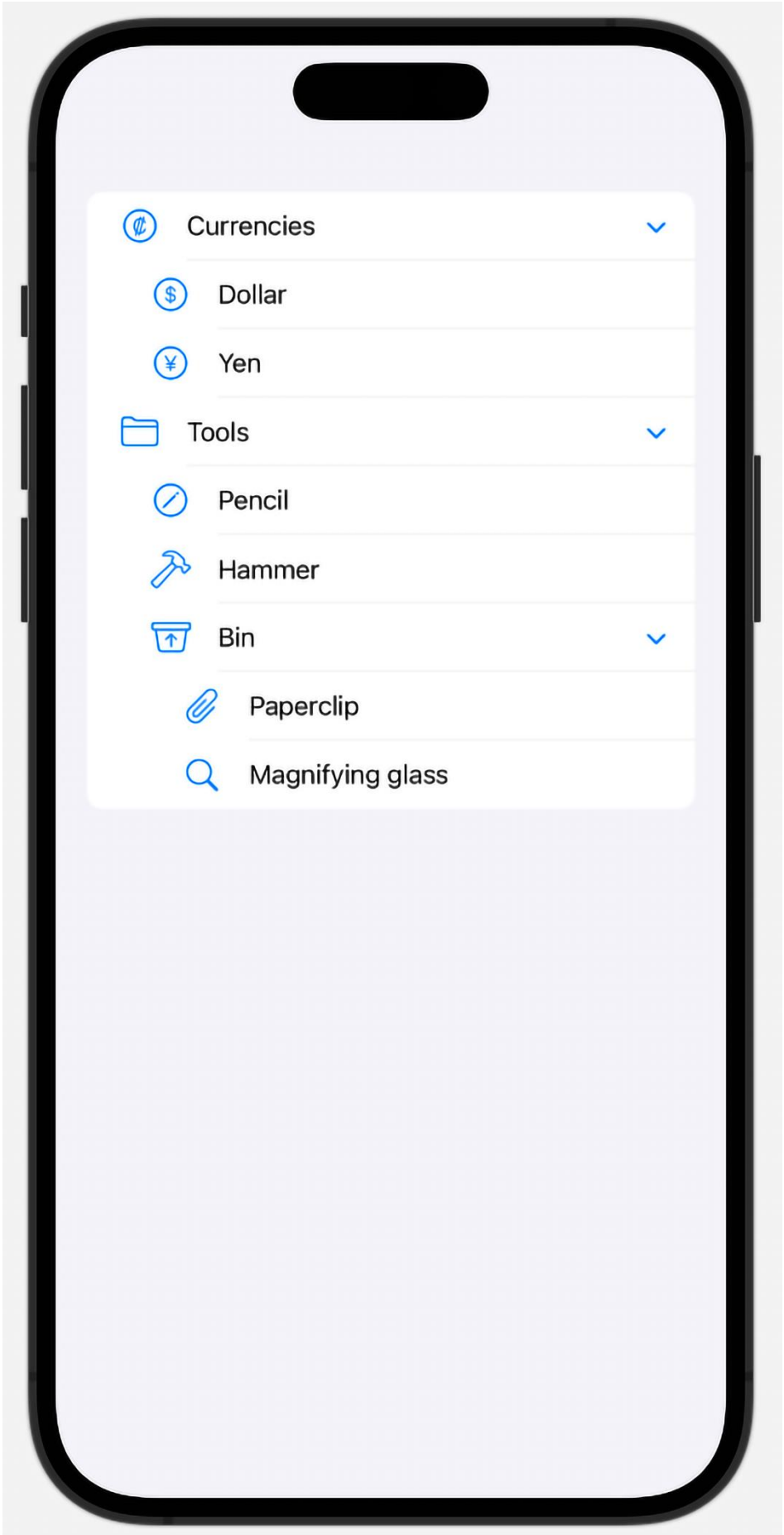


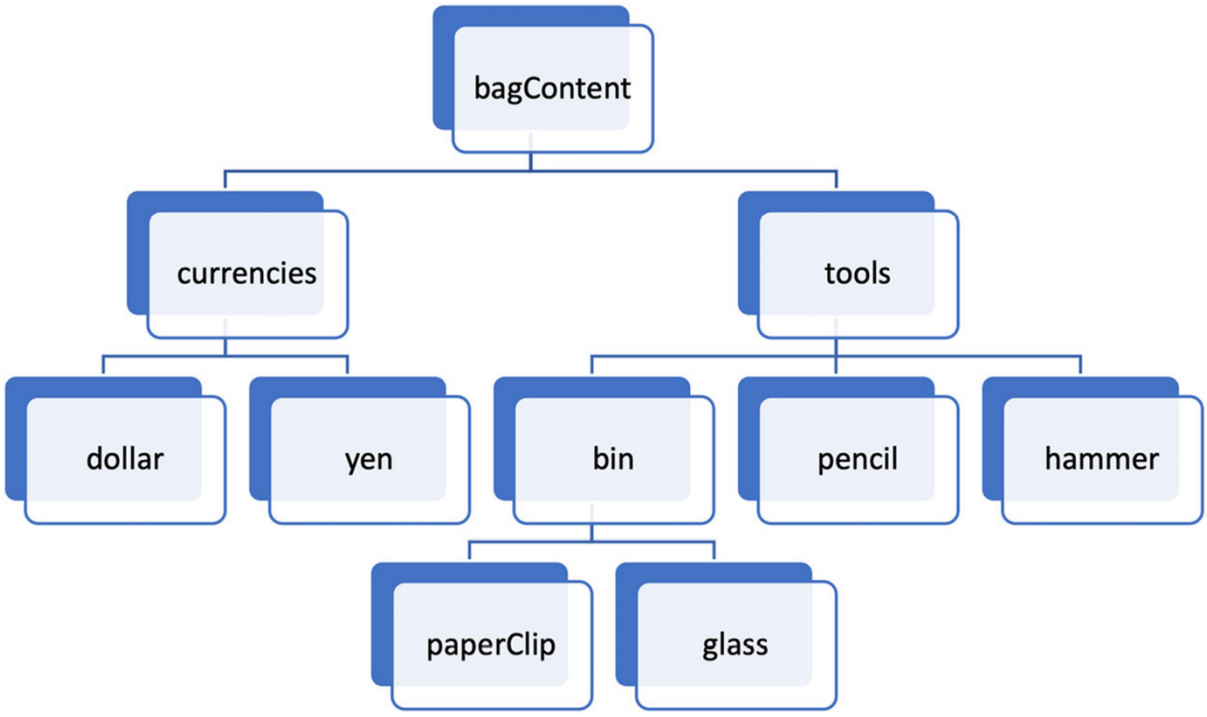

Horizontal 1
Horizontal 2
Horizontal 3
Ho
Vertical 1
Vertical 2
Vertical 3
Vertical 4
Vertical 5
Vertical 6
Vertical 7
Vertical 8
Vertical 9
Vertical 10
Vertical 11
Vertical 12
Vertical 13

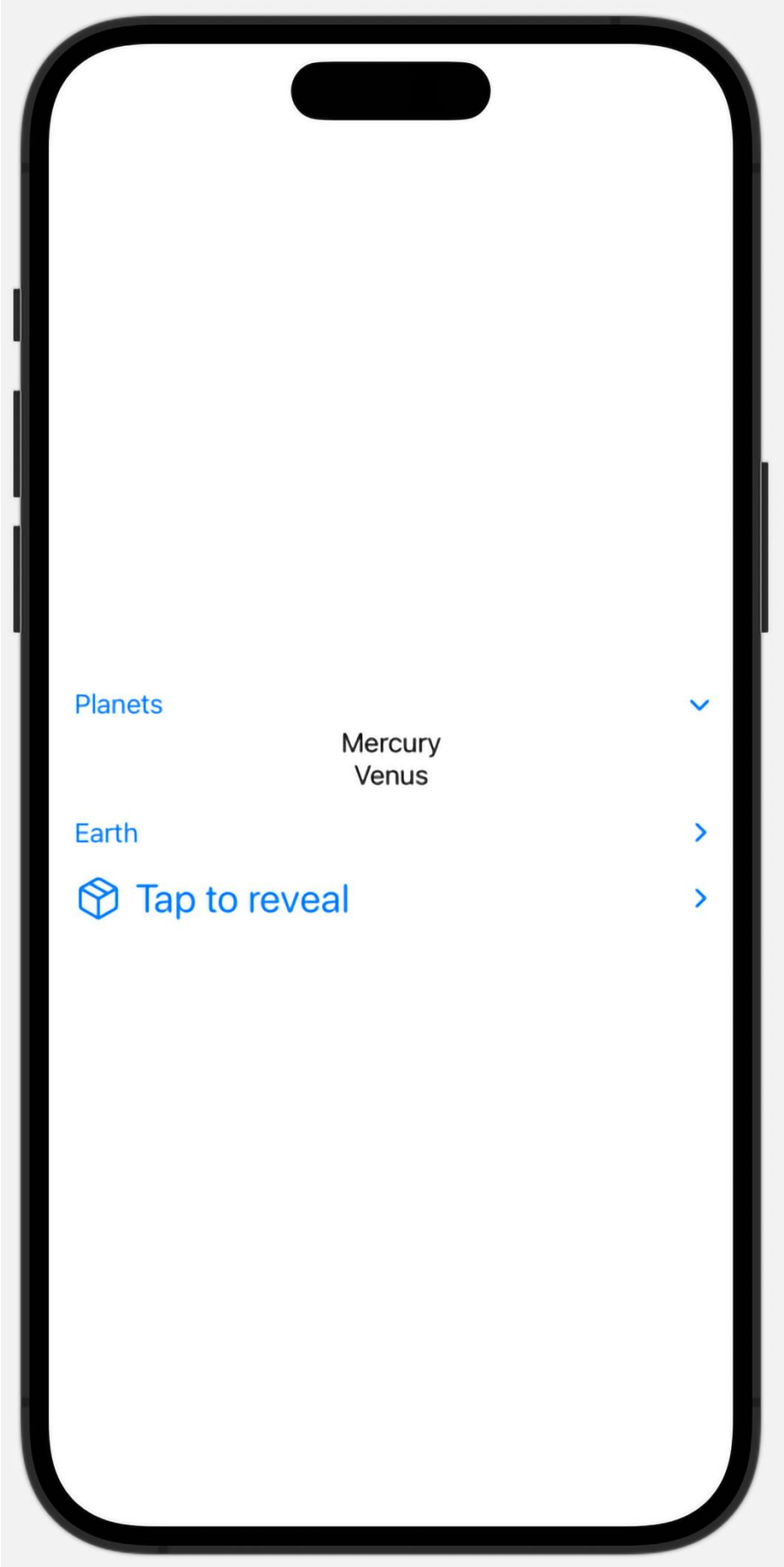

Item 1
Item 2
Item 3
Item 4
Item 5
Item 6
Item 7
Item 8
Item 9
Item 10
Item 11
Item 12
Item 13
Item 14
Item 15
Item 16
Item 1
Item 4
Item 7
Item 10
Item 2
Item 5
Item 8
Item 11
Item 3
Item 6
Item 9
Item 12

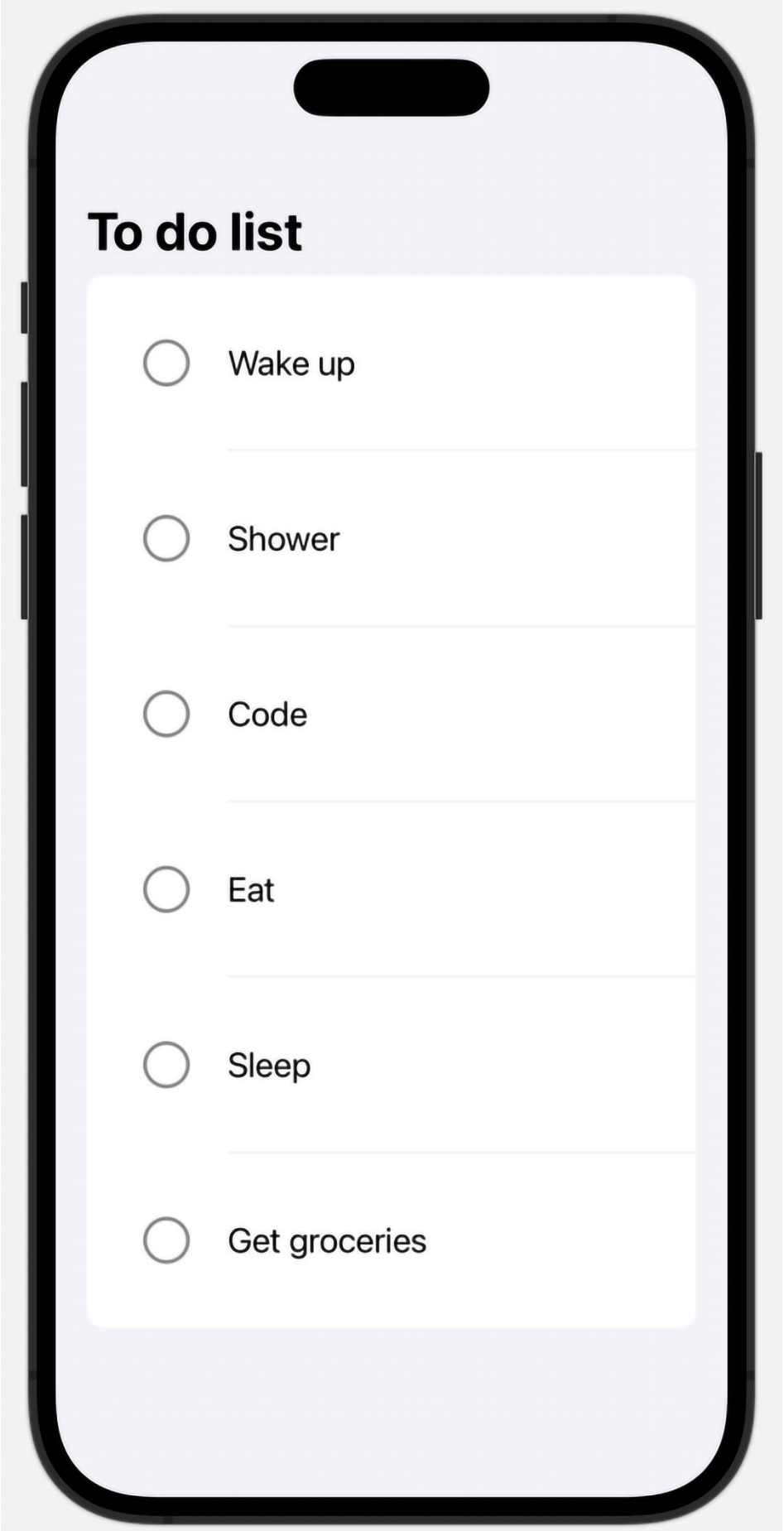

iOS 17+
iOS 14+
Go to letter Q
A
B
C
D
E

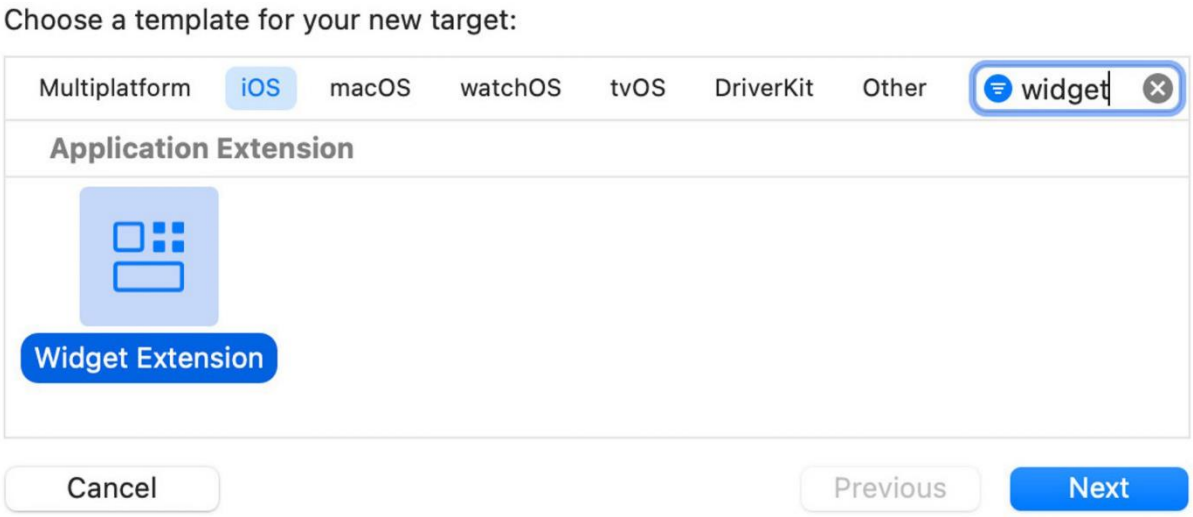

iOS 17+
iOS 14+
Go to letter Q
Go to letter Q
A
A
B
B
C
C
D
D
E
E

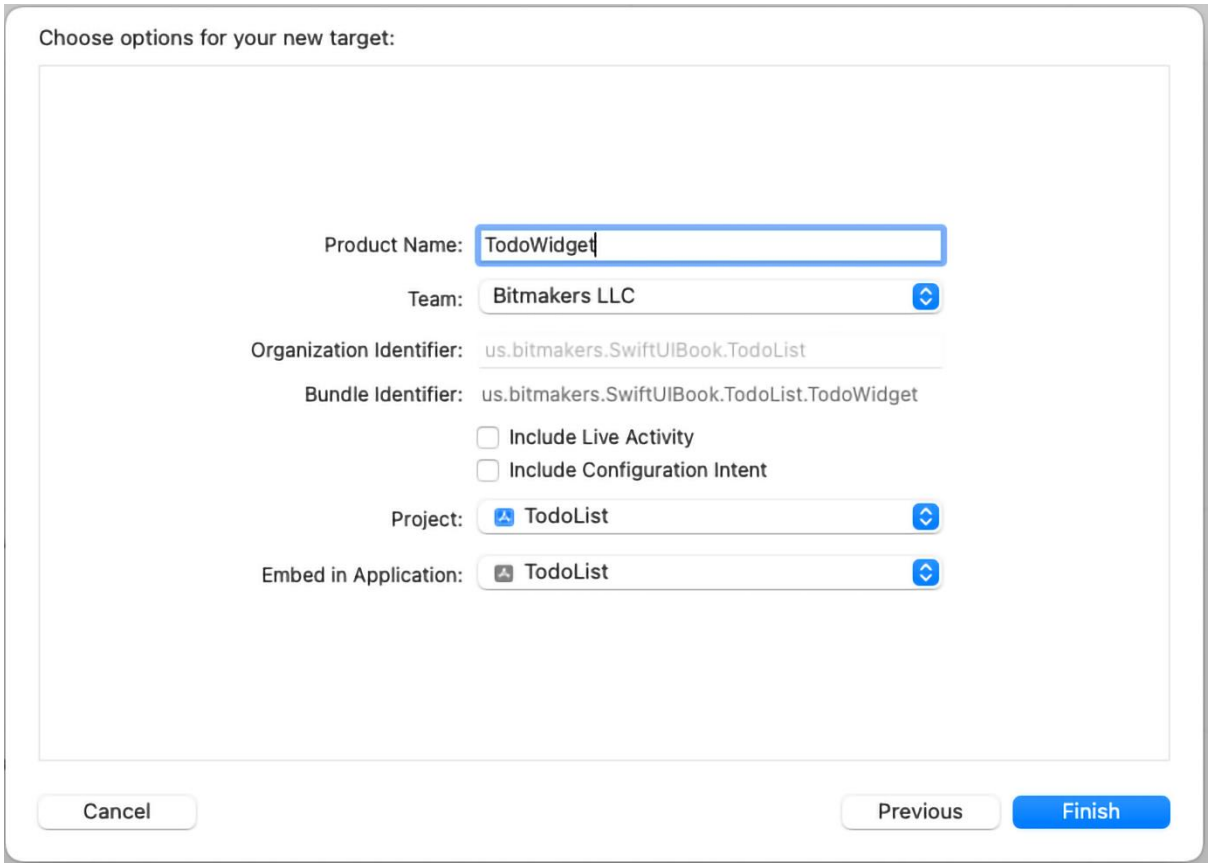

Currencies
Dollar
Yen
Tools
Pencil
Hammer
Bin
Paperclip
Magnifying glass

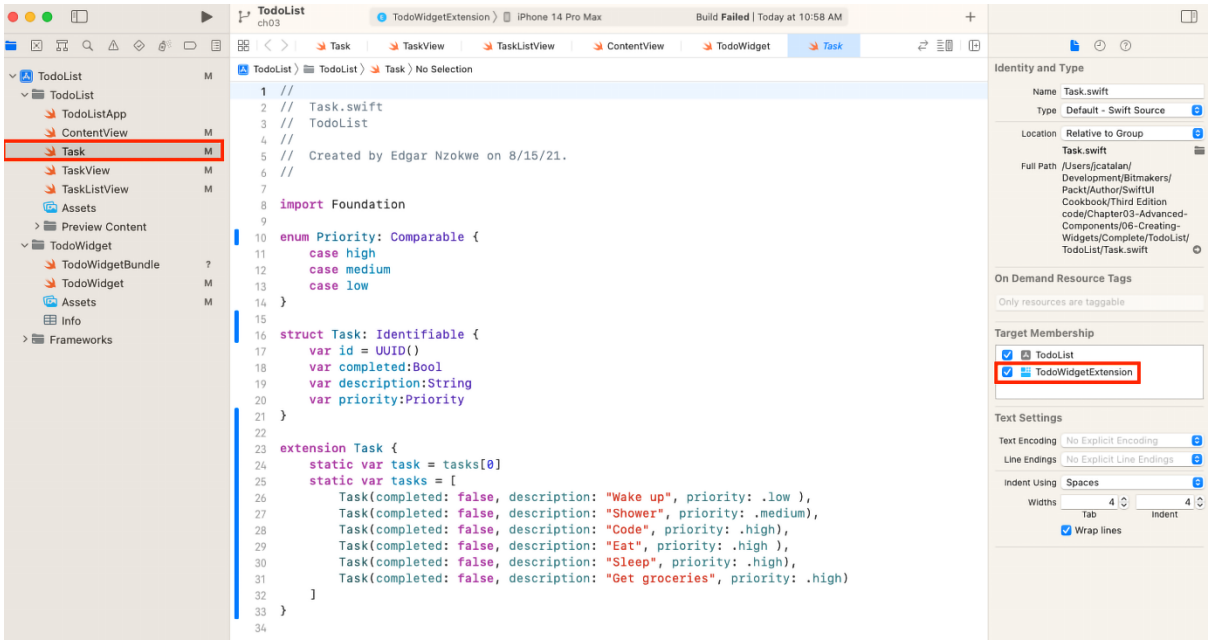

bagContent
currencies
tools
dollar
yen
bin
pencil
hammer
paperClip
glass

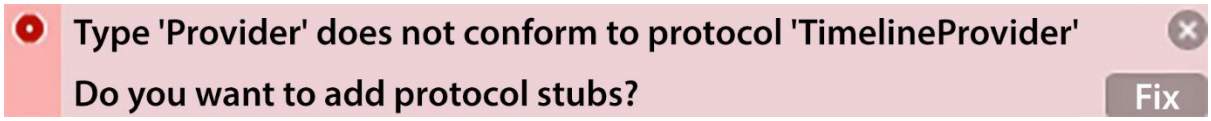

Planets
Mercury
Venus
Earth
Tap to reveal

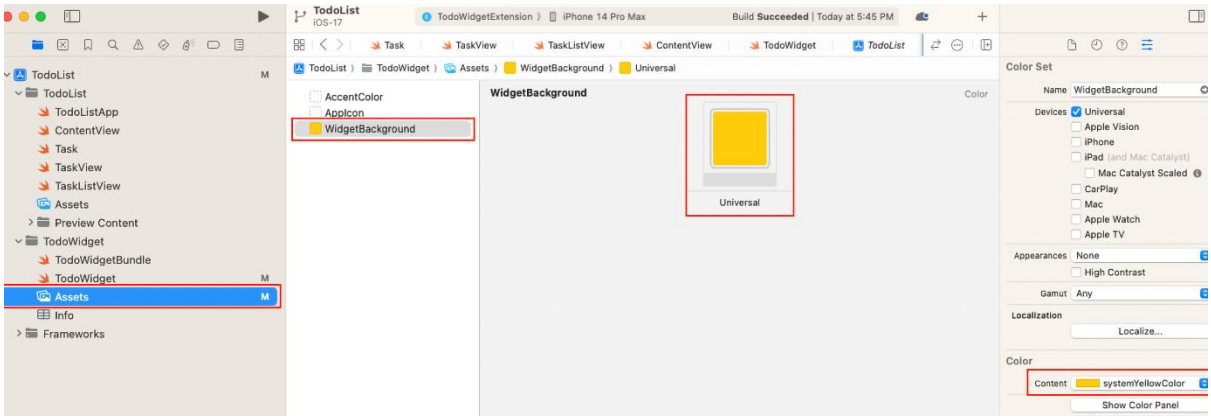

To do list
Wake up
Shower
Code
Eat
Sleep
Get groceries


Choose a template for your new target:
Multiplatform
iOS
macOS
watchOS
tvOS
DriverKit
Other
widget
Application Extension
Widget Extension
Cancel
Previous
Next


Choose options for your new target:
Product Name:
TodoWidget
Team:
Bitmakers LLC
Organization Identifier:
us.bitmakers.SwiftUIBook.TodoList
Bundle Identifier:
us.bitmakers.SwiftUIBook.TodoList.TodoWidget
Include Live Activity
Include Configuration Intent
Project:
TodoList
Embed in Application:
TodoList
Cancel
Previous
Finish


TodoList
ch03
TodoWidgetExtension
iPhone 14 Pro Max
Build Failed | Today at 10:58 AM
Task
TaskView
TaskListView
ContentView
TodoWidget
TodoList
TodoListApp
ContentView
Task
TaskView
TaskListView
Assets
Preview Content
TodoWidget
TodoWidgetBundle
TodoWidget
Assets
Info
Frameworks
//
// Task.swift
// TodoList
//
// Created by Edgar Nzokwe on 8/15/21.
//
import Foundation
enum Priority: Comparable {
case high
case medium
case low
}
struct Task: Identifiable {
var id = UUID()
var completed:Bool
var description:String
var priority:Priority
}
extension Task {
static var task = tasks[0]
static var tasks = [
Task(completed: false, description: "Wake up", priority: .low),
Task(completed: false, description: "Shower", priority: .medium),
Task(completed: false, description: "Code", priority: .high),
Task(completed: false, description: "Eat", priority: .high),
Task(completed: false, description: "Sleep", priority: .high),
Task(completed: false, description: "Get groceries", priority: .high)
]
}
Identity and Type
Name Task.swift
Type Default - Swift Source
Location Relative to Group
Task.swift
Full Path /Users/jcatalan/Development/Bitmakers/Packt/Author/SwiftUI Cookbook/Third Edition code/Chapter03-Advanced-Components/06-Creating-Widgets/Complete/TodoList/TodoList/Task.swift
On Demand Resource Tags
Only resources are taggable
Target Membership
TodoList
TodoWidgetExtension
Text Settings
Text Encoding No Explicit Encoding
Line Endings No Explicit Line Endings
Indent Using Spaces
Widths 4 4
Tab Indent
Wrap lines


Type 'Provider' does not conform to protocol 'TimelineProvider'
Do you want to add protocol stubs?
Fix


TodoList
iOS-17
TodoWidgetExtension
iPhone 14 Pro Max
Build Succeeded | Today at 5:45 PM
TodoList
TodoWidget
Assets
WidgetBackground
Universal
AccentColor
AppIcon
WidgetBackground
Universal
Color Set
Name WidgetBackground
Devices Universal
Apple Vision
iPhone
iPad (and Mac Catalyst)
Mac Catalyst Scaled
CarPlay
Mac
Apple Watch
Apple TV
Appearances None
High Contrast
Gamut Any
Localization
Localize...
Color
Content systemYellowColor
Show Color Panel

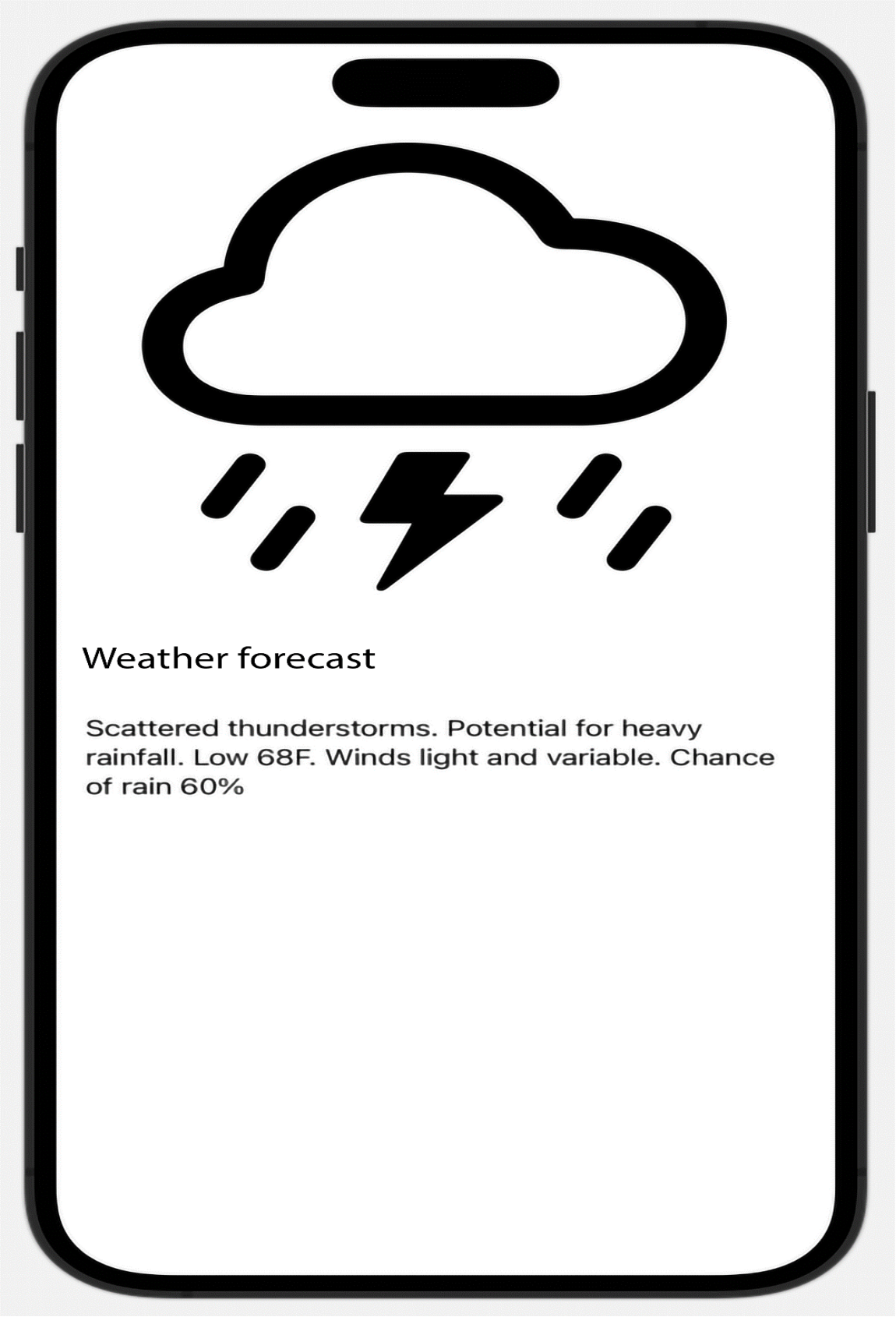

Wake up


Code


iPhone 14 Pro Max
iOS 17.0
7:57
Code
TodoList
NORTH AMERICA
Maps
MONDAY
26
No events today
Calendar
MON
26
Calendar
Photos
Reminders
News
Search


small
medium
Shower
Automatic – iPhone 15 Pro
Wake up
Shower
Code
Eat
Sleep
Get groceries
Entry 1
Entry 2
Entry 3
Entry 4
Entry 5
Entry 6

Chapter 4: Viewing while Building with SwiftUI Preview in Xcode 15

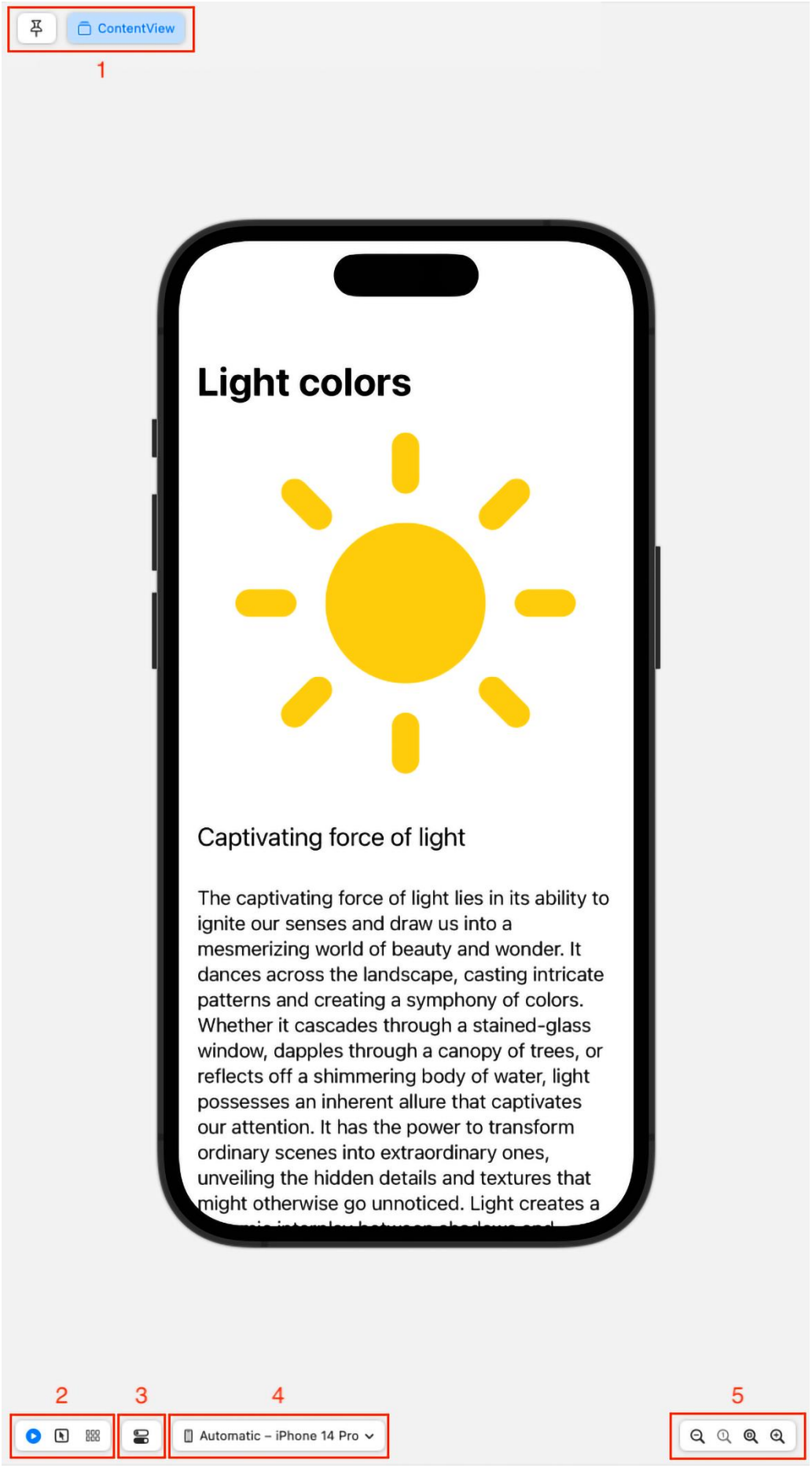


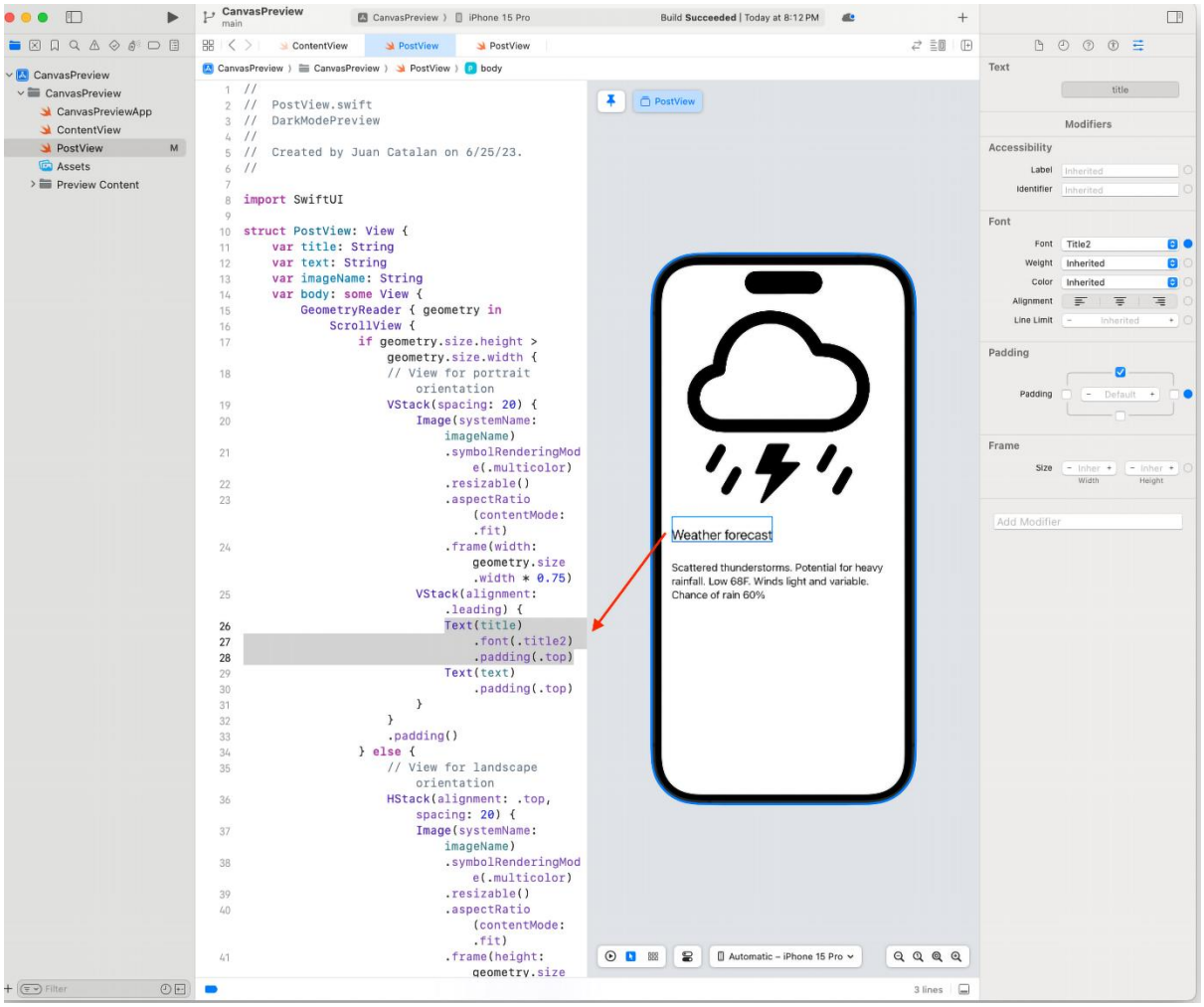
Light colors

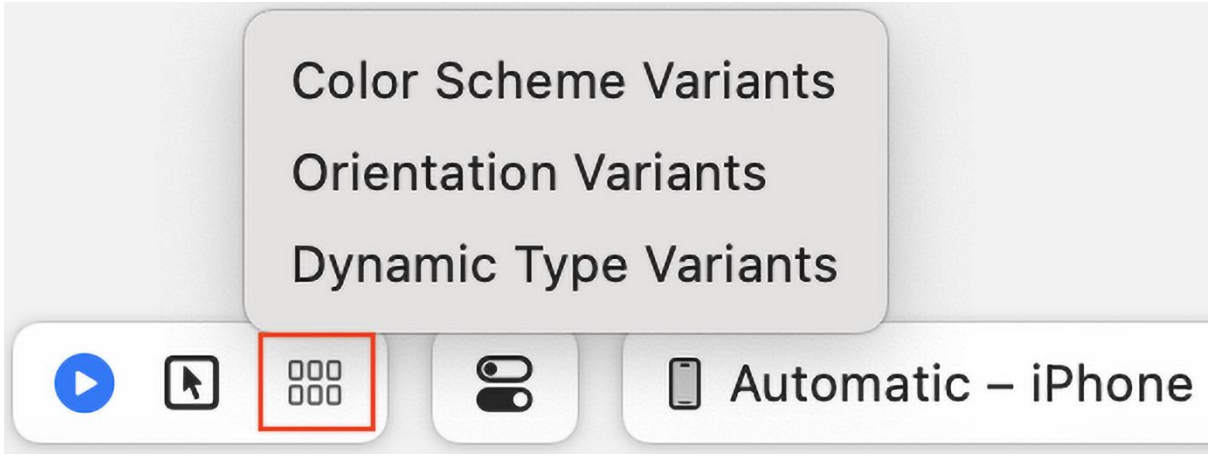


Captivating force of light

The captivating force of light lies in its ability to ignite our senses and draw us into a mesmerizing world of beauty and wonder. It dances across the landscape, casting intricate patterns and creating a symphony of colors. Whether it cascades through a stained-glass window, dapples through a canopy of trees, or reflects off a shimmering body of water, light possesses an inherent allure that captivates our attention. It has the power to transform ordinary scenes into extraordinary ones, unveiling the hidden details and textures that might otherwise go unnoticed. Light creates a dynamic interplay between shadows and highlights, enhancing the depth and dimension of our surroundings, and evoking an emotional response that resonates within us

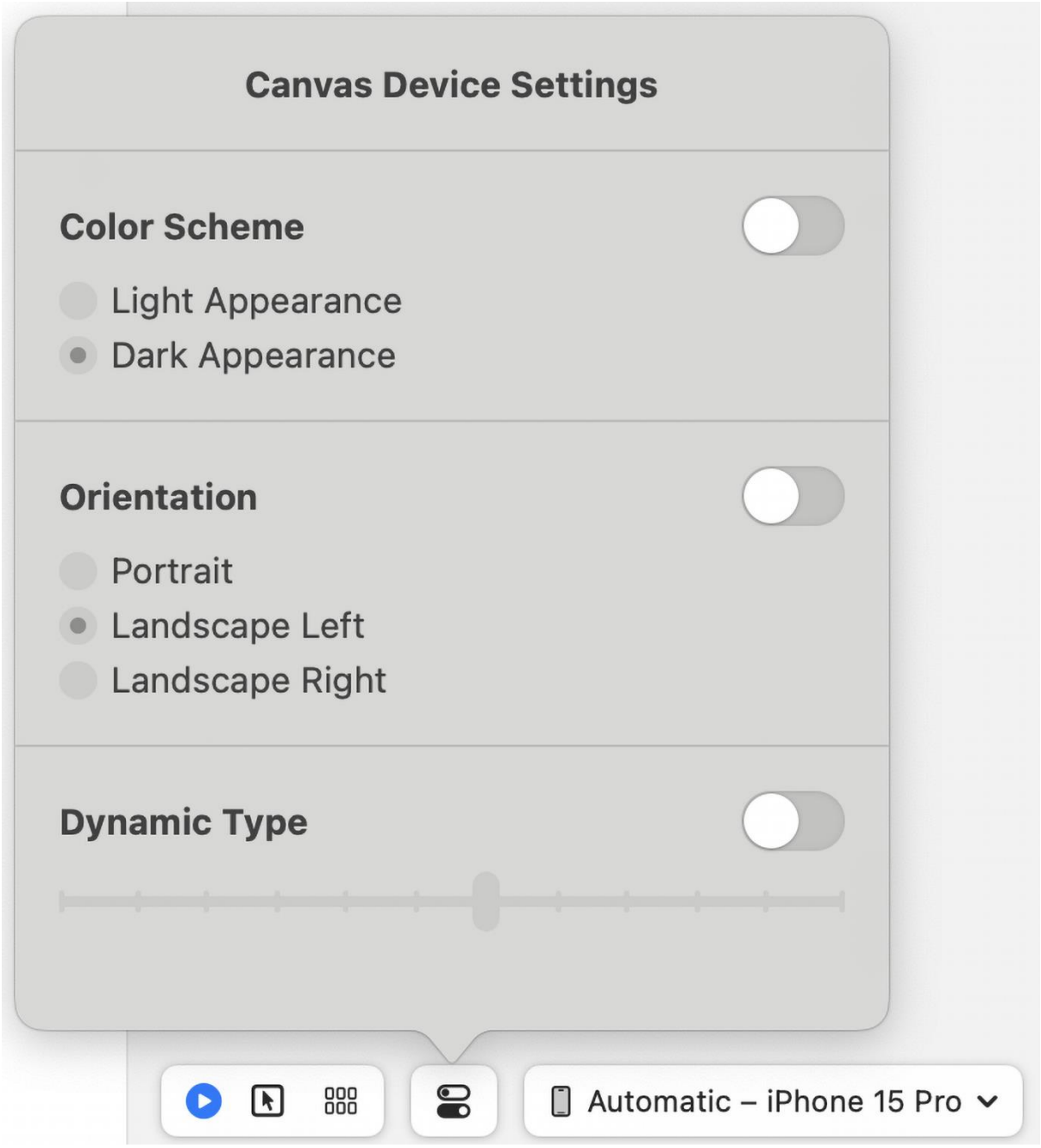

ContentView
1
Light colors
Captivating force of light
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2
3
4
Automatic – iPhone 14 Pro
5


CanvasPreview
main
CanvasPreview
iPhone 15 Pro
Build Succeeded | Today at 8:12 PM
ContentView
PostView
PostView
CanvasPreview
CanvasPreview
CanvasPreviewApp
ContentView
PostView
M
Assets
Preview Content
//
// PostView.swift
// DarkModePreview
//
// Created by Juan Catalan on 6/25/23.
//
import SwiftUI
struct PostView: View {
var title: String
var text: String
var imageName: String
var body: some View {
GeometryReader { geometry in
ScrollView {
if geometry.size.height >
geometry.size.width {
// View for portrait
orientation
VStack(spacing: 20) {
Image(systemName:
imageName)
.symbolRenderingMod
e(.multicolor)
.resizable()
.aspectRatio
(contentMode:
.fit)
.frame(width:
geometry.size
.width * 0.75)
VStack(alignment:
.leading) {
Text(title)
.font(.title2)
.padding(.top)
Text(text)
.padding(.top)
}
}
.padding()
} else {
// View for landscape
orientation
HStack(alignment: .top,
spacing: 20) {
Image(systemName:
imageName)
.symbolRenderingMod
e(.multicolor)
.resizable()
.aspectRatio
(contentMode:
.fit)
.frame(height:
geometry.size
PostView
Weather forecast
Scattered thunderstorms. Potential for heavy rainfall. Low 68F. Winds light and variable. Chance of rain 60%
Automatic – iPhone 15 Pro
3 lines
Text
title
Modifiers
Accessibility
Label
Identifier
Font
Font
Title2
Weight
Color
Alignment
Line Limit
Padding
Padding
Frame
Size
Width
Height
Add Modifier

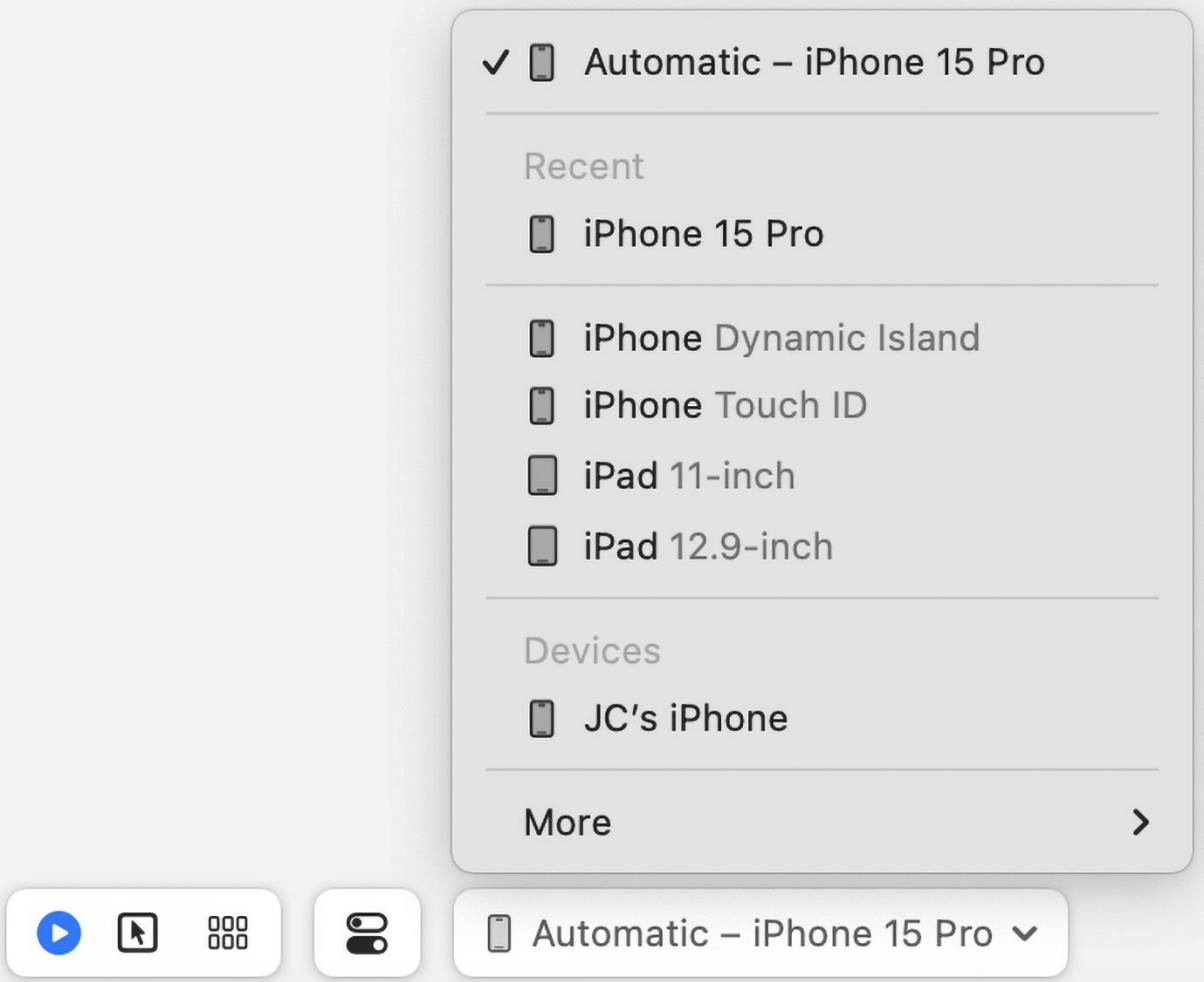

Color Scheme Variants
Orientation Variants
Dynamic Type Variants
Automatic – iPhone

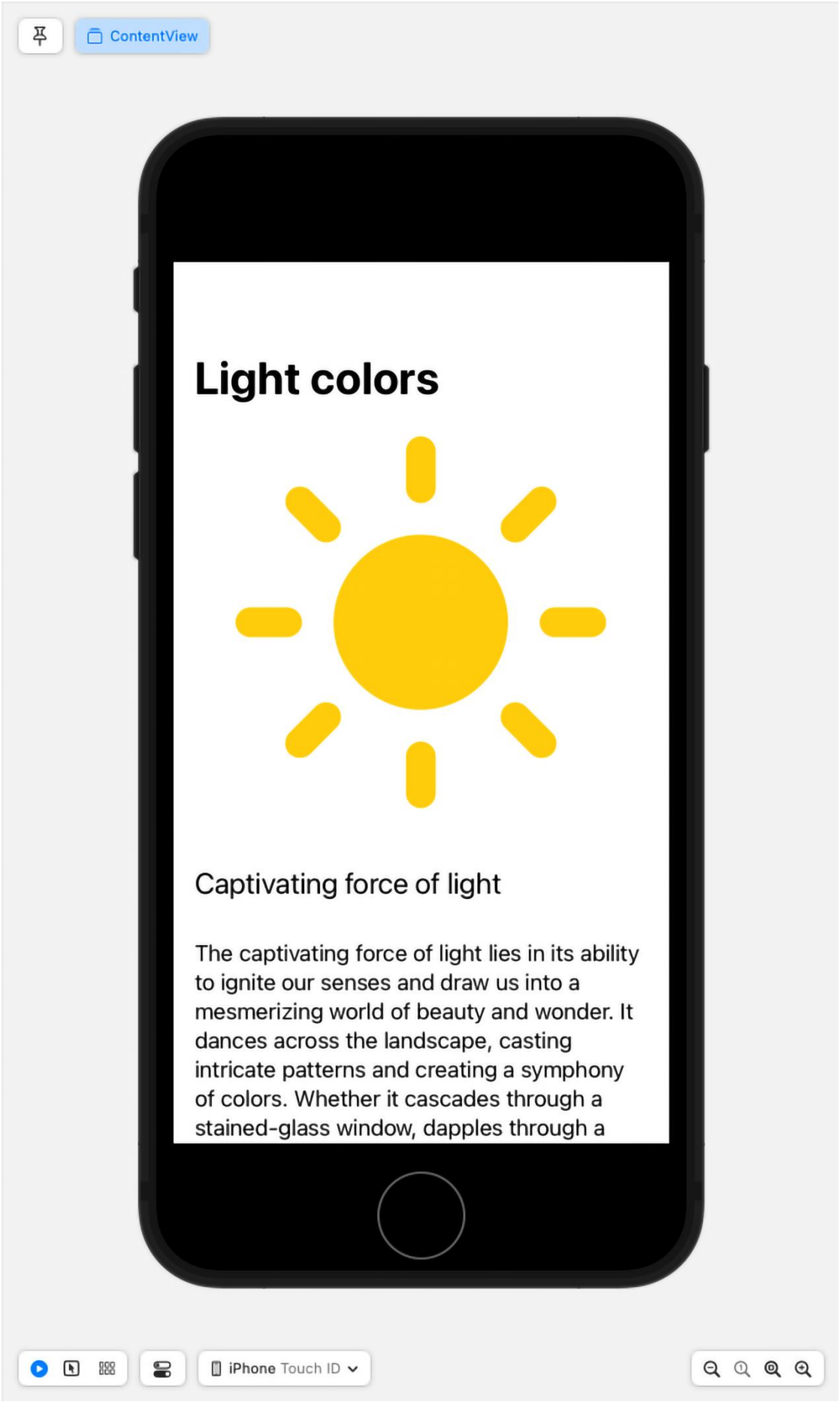

ContentView
Light colors
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Dark colors
Fascinating Dark Secrets
The concept of fascinating darkness captivates the imagination, drawing us into a realm of mystery and intrigue. Within the folds of darkness, hidden wonders and secrets lie waiting to be discovered. It is in this absence of light that our senses heighten, and our perception expands beyond the ordinary. Fascinating darkness challenges our understanding of the world, inviting us to explore the depths of our own thoughts and emotions. It is a canvas upon which our imagination can paint vivid scenes and narratives, sparking creativity and
Light Appearance
Dark Appearance
Automatic – iPhone 15 Pro


ContentView
Light colors
Captivating force of light
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X Small
Small
Medium
Large
X Large
XX Large
XXX Large
AX 1
AX 2
AX 3
AX 4
AX 5
Automatic – iPhone 14 Pro


Canvas Device Settings
Color Scheme
Light Appearance
Dark Appearance
Orientation
Portrait
Landscape Left
Landscape Right
Dynamic Type
Automatic – iPhone 15 Pro

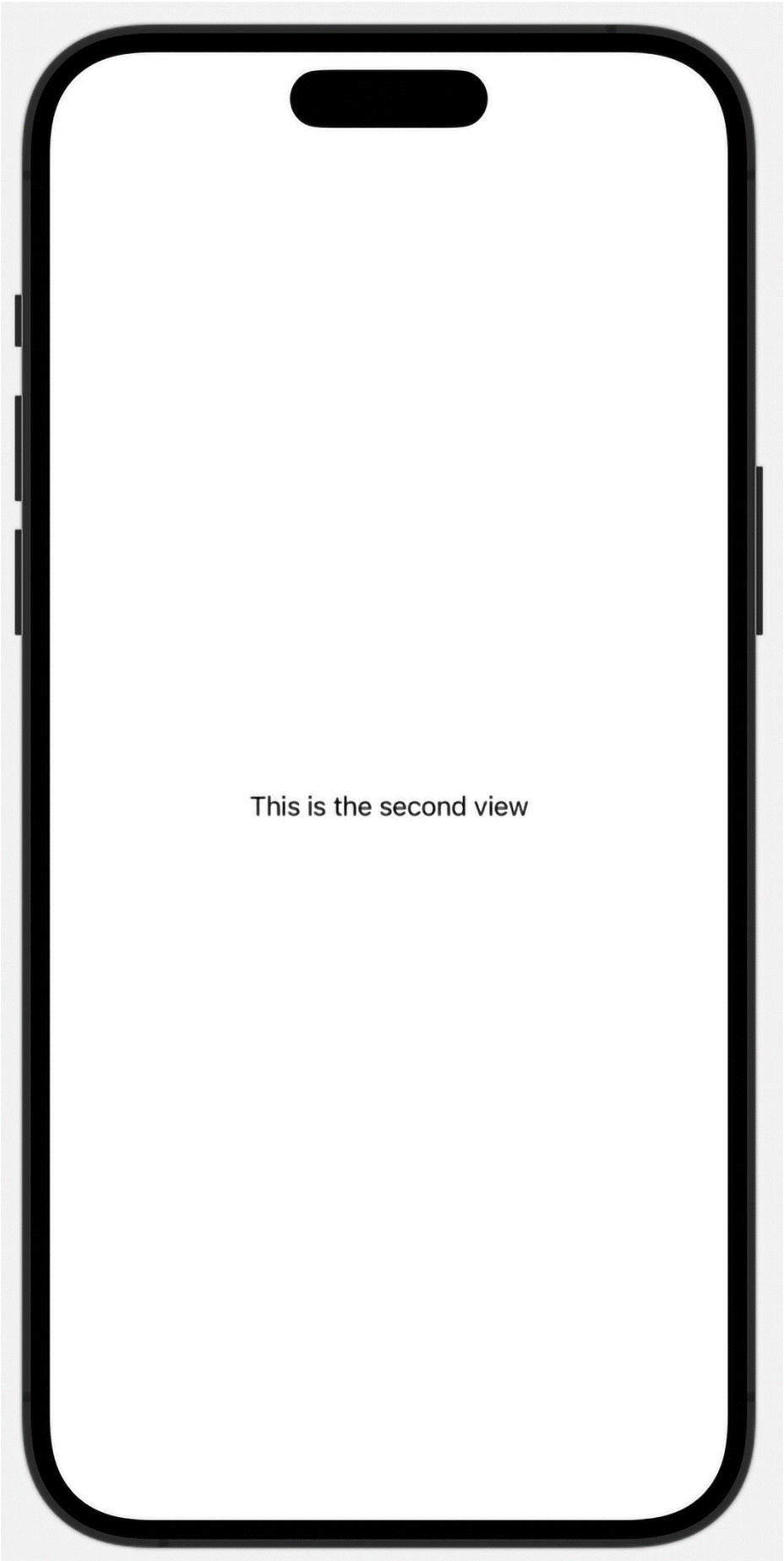

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Dark Appearance • Landscape Left


Automatic – iPhone 15 Pro
Recent
iPhone 15 Pro
iPhone Dynamic Island
iPhone Touch ID
iPad 11-inch
iPad 12.9-inch
Devices
JC's iPhone
More
Automatic – iPhone 15 Pro

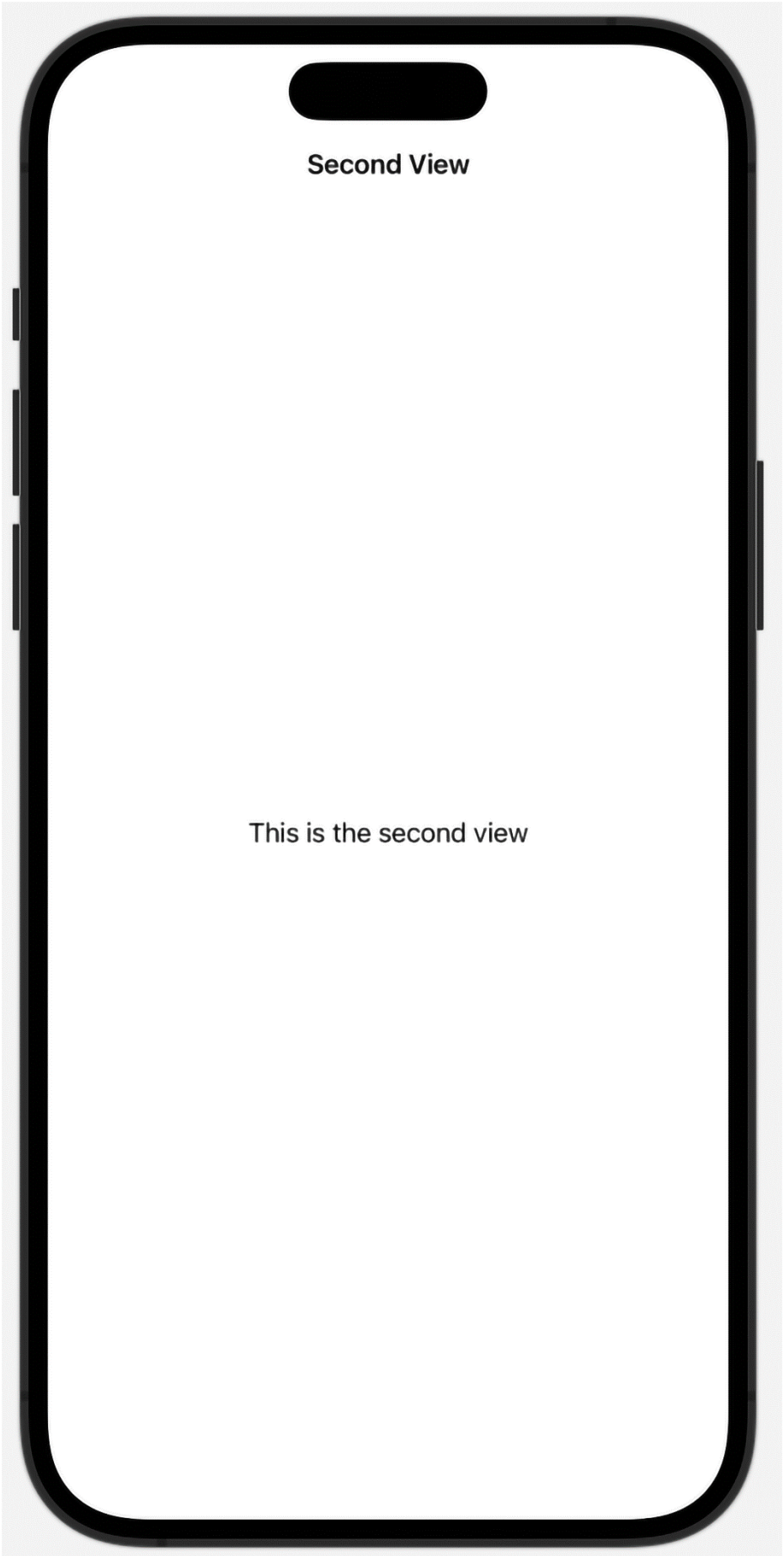

ContentView
Light colors
Captivating force of light
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iPhone Touch ID

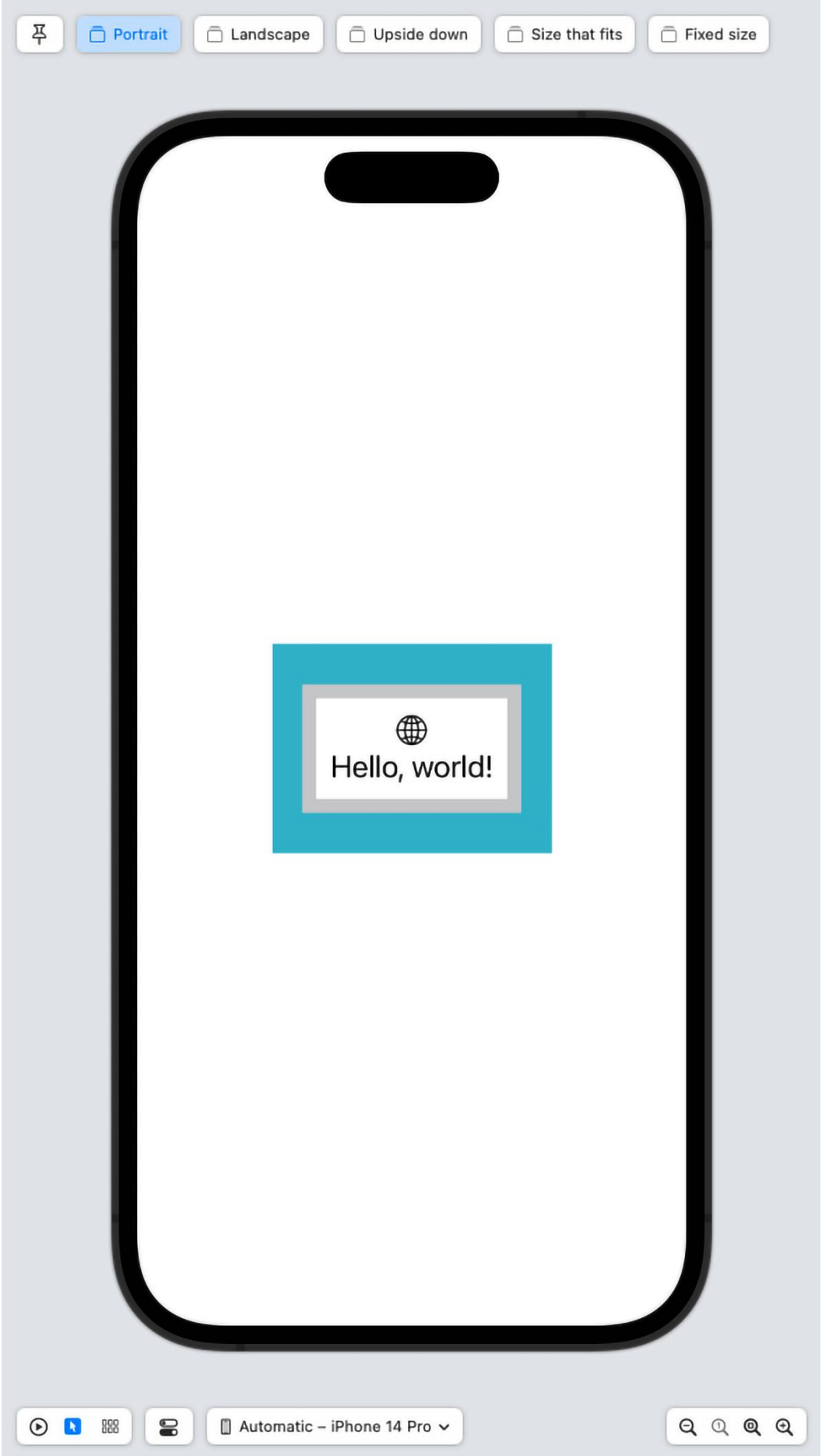

ContentView


ContentView
PostView


This is the second view


Previews
Second View
Text passed from ContentView


Second View
This is the second view


Portrait
Landscape
Upside down
Size that fits
Fixed size
Hello, world!
Automatic – iPhone 14 Pro

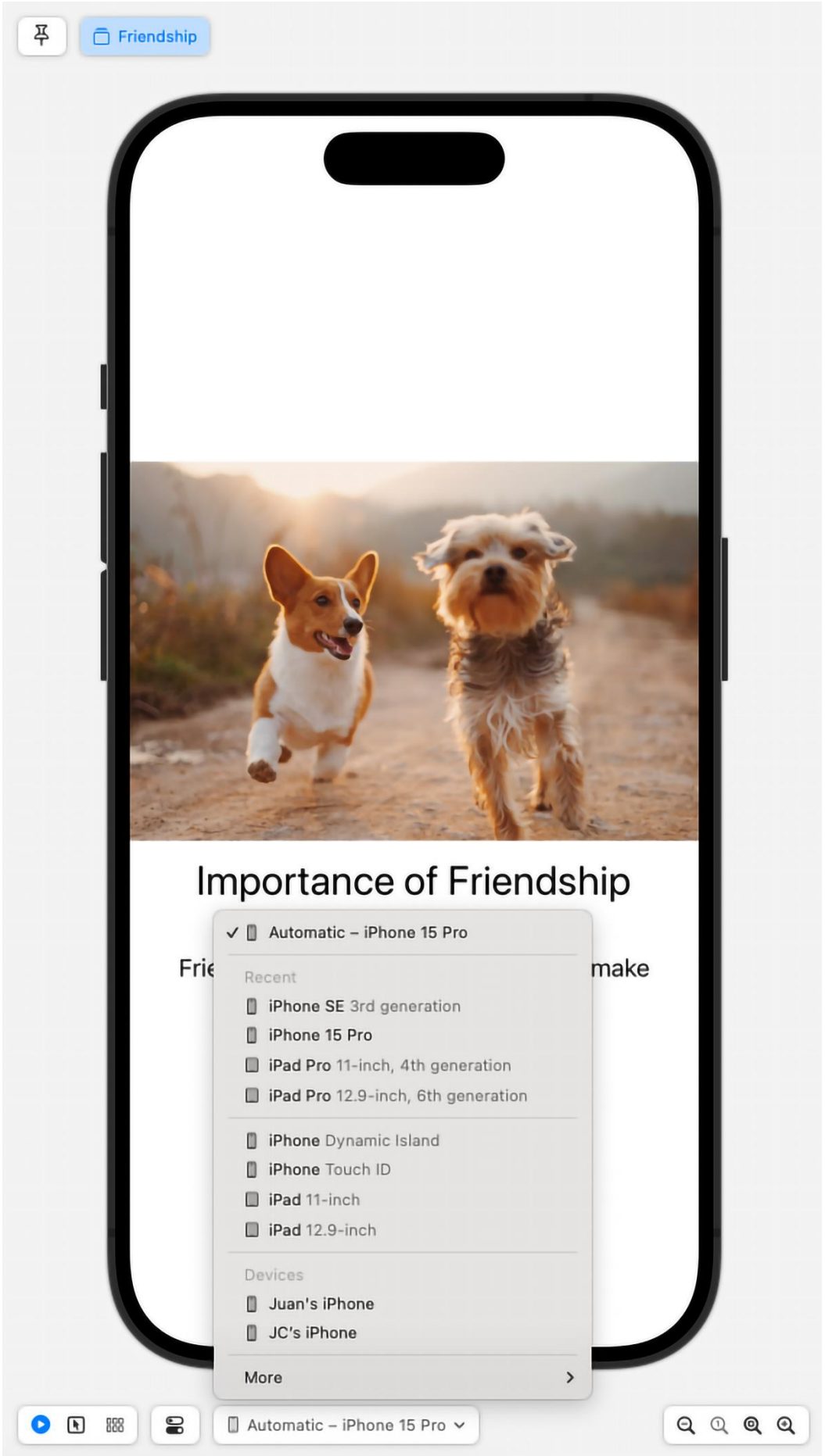
Friendship

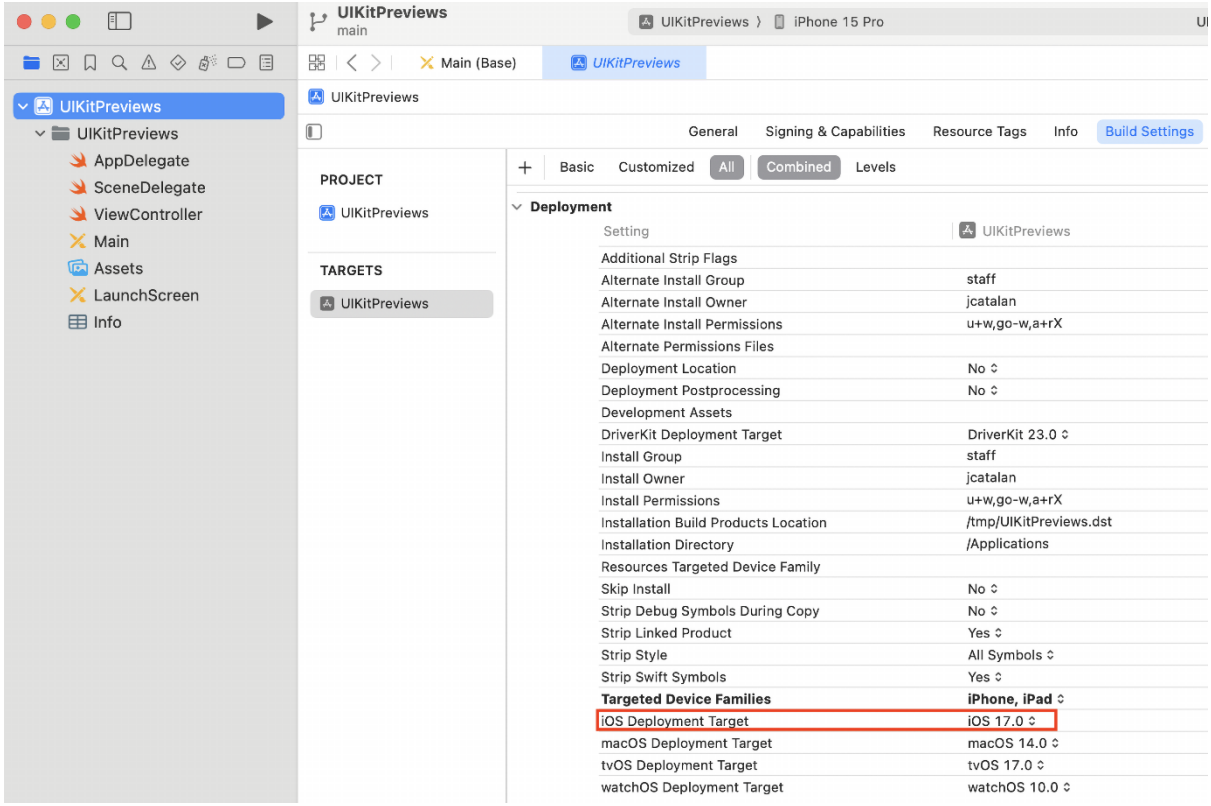


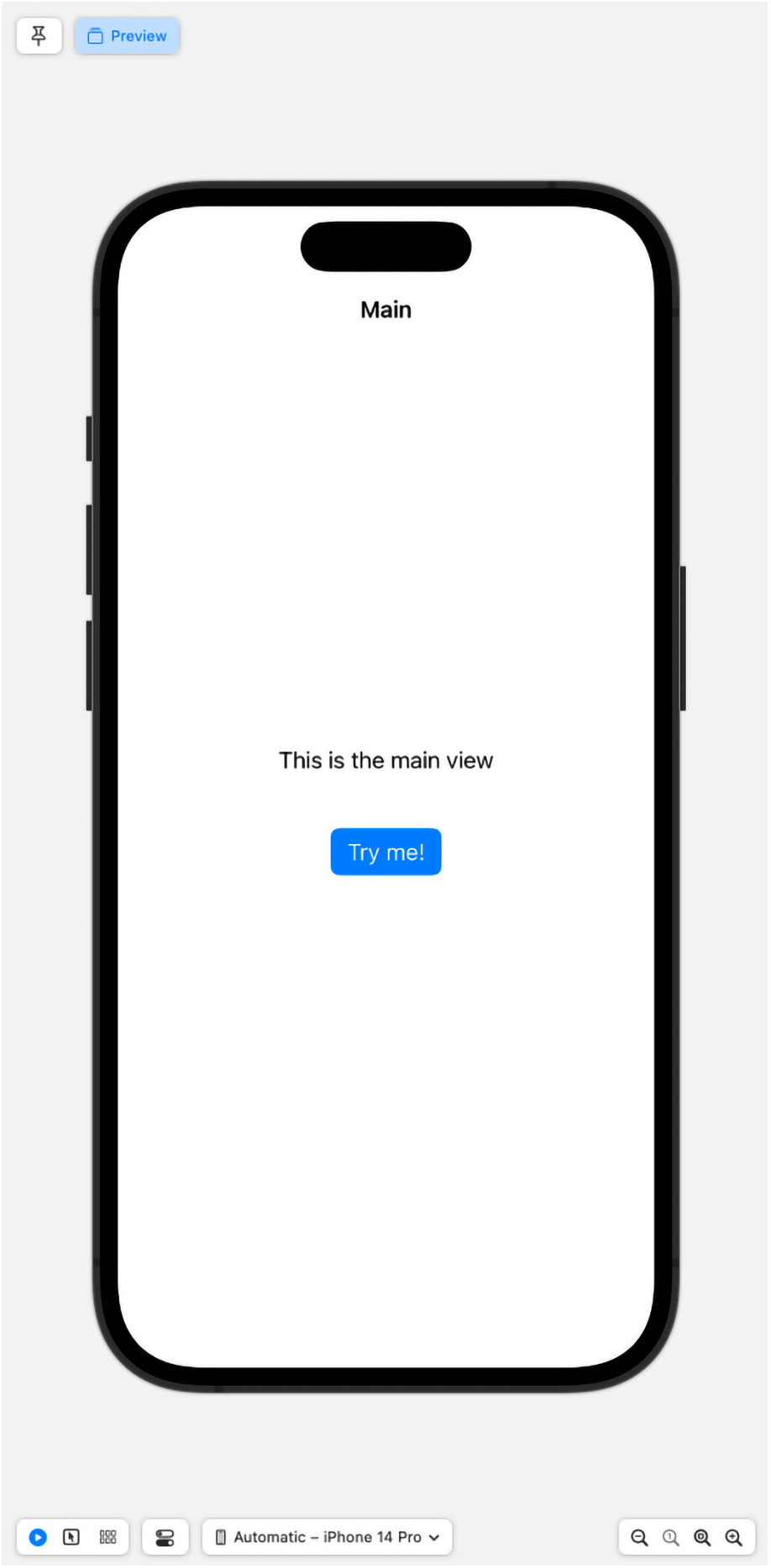
Importance of Friendship

Friends help us deal with stress and make better life choices

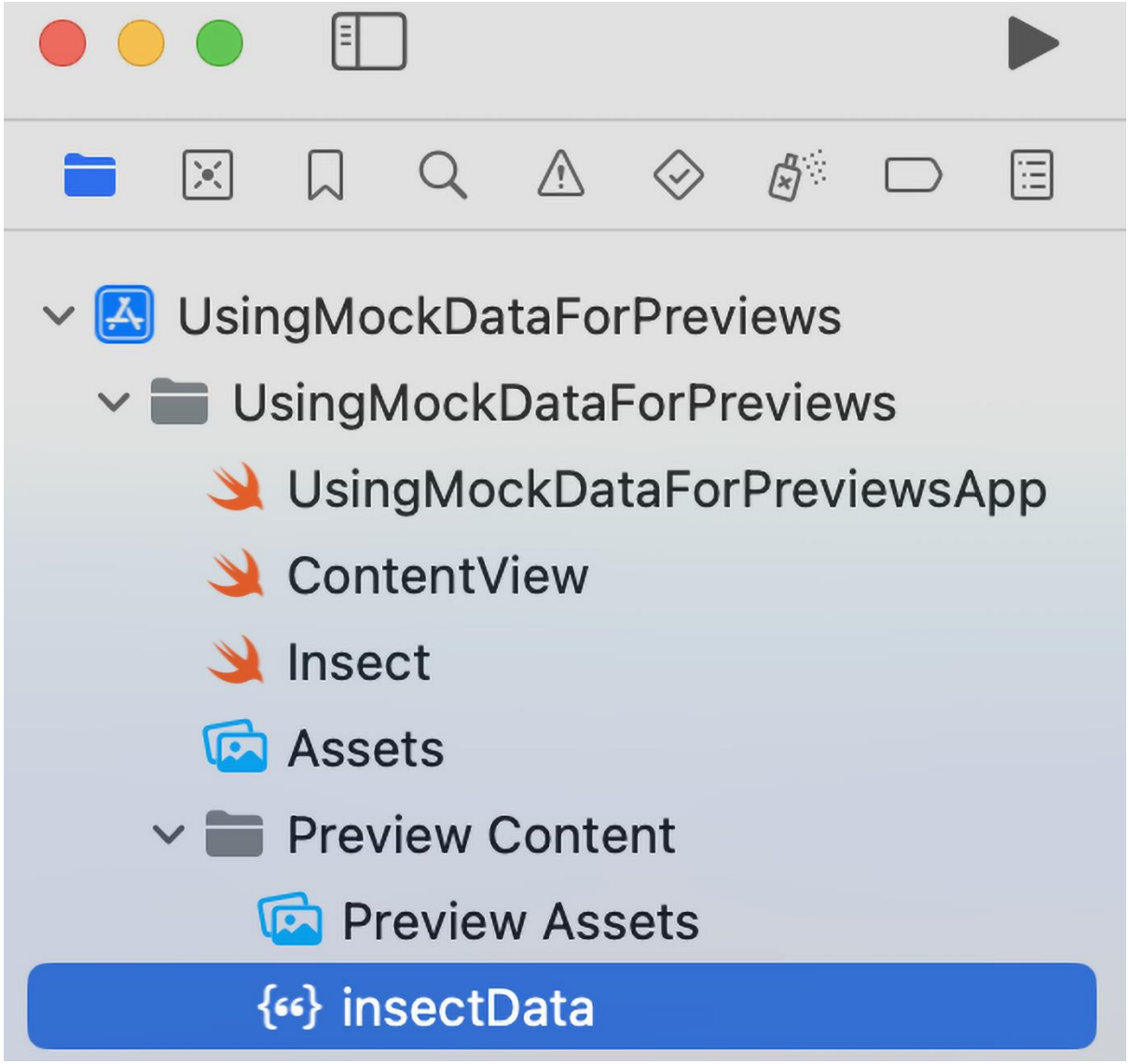
iPhone 15 Pro

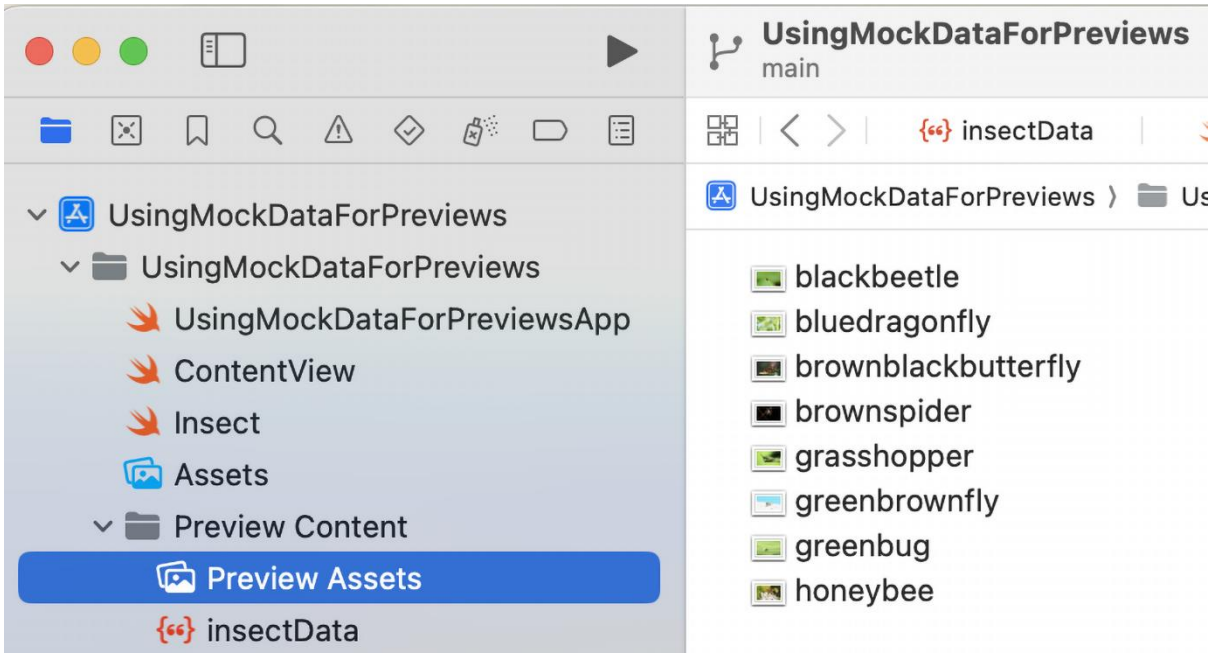

Friendship
Importance of Friendship
Automatic – iPhone 15 Pro
Recent
iPhone SE 3rd generation
iPhone 15 Pro
iPad Pro 11-inch, 4th generation
iPad Pro 12.9-inch, 6th generation
iPhone Dynamic Island
iPhone Touch ID
iPad 11-inch
iPad 12.9-inch
Devices
Juan's iPhone
JC's iPhone
More
Automatic – iPhone 15 Pro


UIKitPreviews
main
UIKitPreviews 〉 iPhone 15 Pro
Main (Base)
UIKitPreviews
UIKitPreviews
UIKitPreviews
AppDelegate
SceneDelegate
ViewController
Main
Assets
LaunchScreen
Info
UIKitPreviews
General
Signing & Capabilities
Resource Tags
Info
Build Settings
PROJECT
UIKitPreviews
TARGETS
UIKitPreviews
Basic
Customized
All
Combined
Levels
Deployment
Setting
UIKitPreviews
Additional Strip Flags
Alternate Install Group
staff
Alternate Install Owner
jcatalan
Alternate Install Permissions
u+w,go-w,a+rX
Alternate Permissions Files
Deployment Location
No
Deployment Postprocessing
No
Development Assets
DriverKit Deployment Target
DriverKit 23.0
Install Group
staff
Install Owner
jcatalan
Install Permissions
u+w,go-w,a+rX
Installation Build Products Location
/tmp/UIKitPreviews.dst
Installation Directory
/Applications
Resources Targeted Device Family
Skip Install
No
Strip Debug Symbols During Copy
No
Strip Linked Product
Yes
Strip Style
All Symbols
Strip Swift Symbols
Yes
Targeted Device Families
iPhone, iPad
iOS Deployment Target
iOS 17.0
macOS Deployment Target
macOS 14.0
tvOS Deployment Target
tvOS 17.0
watchOS Deployment Target
watchOS 10.0


Preview
Main
This is the main view
Try me!
Automatic – iPhone 14 Pro


Preview
UILabel
Previewing a UILabel
Automatic – iPhone 14 Pro


UsingMockDataForPreviews
UsingMockDataForPreviews
UsingMockDataForPreviewsApp
ContentView
Insect
Assets
Preview Content
Preview Assets
insectData


UsingMockDataForPreviews
main
insectData
UsingMockDataForPreviews
UsingMockDataForPreviews
UsingMockDataForPreviews
UsingMockDataForPreviewsApp
ContentView
Insect
Assets
Preview Content
Preview Assets
insectData
blackbeetle
bluedragonfly
brownblackbutterfly
brownspider
grasshopper
greenbrownfly
greenbug
honeybee

Insects



Honey bee
Tropical climates



Green Fly
warm and moist climates



Green bug
orchards and gardens



Black Beetle
Tropical climates



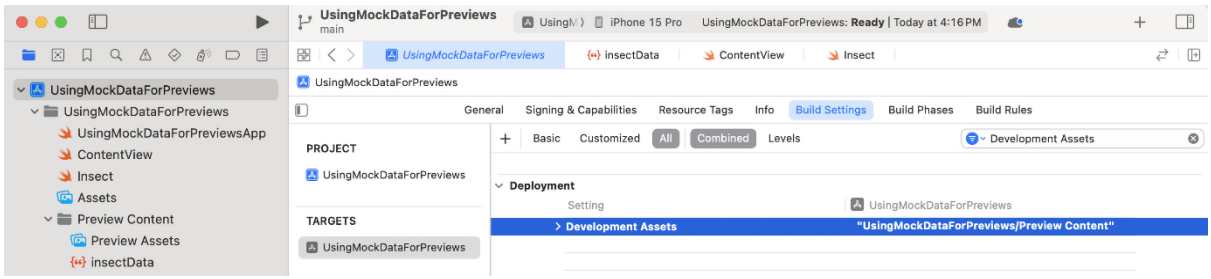
Brown Spider
warm and moist climates



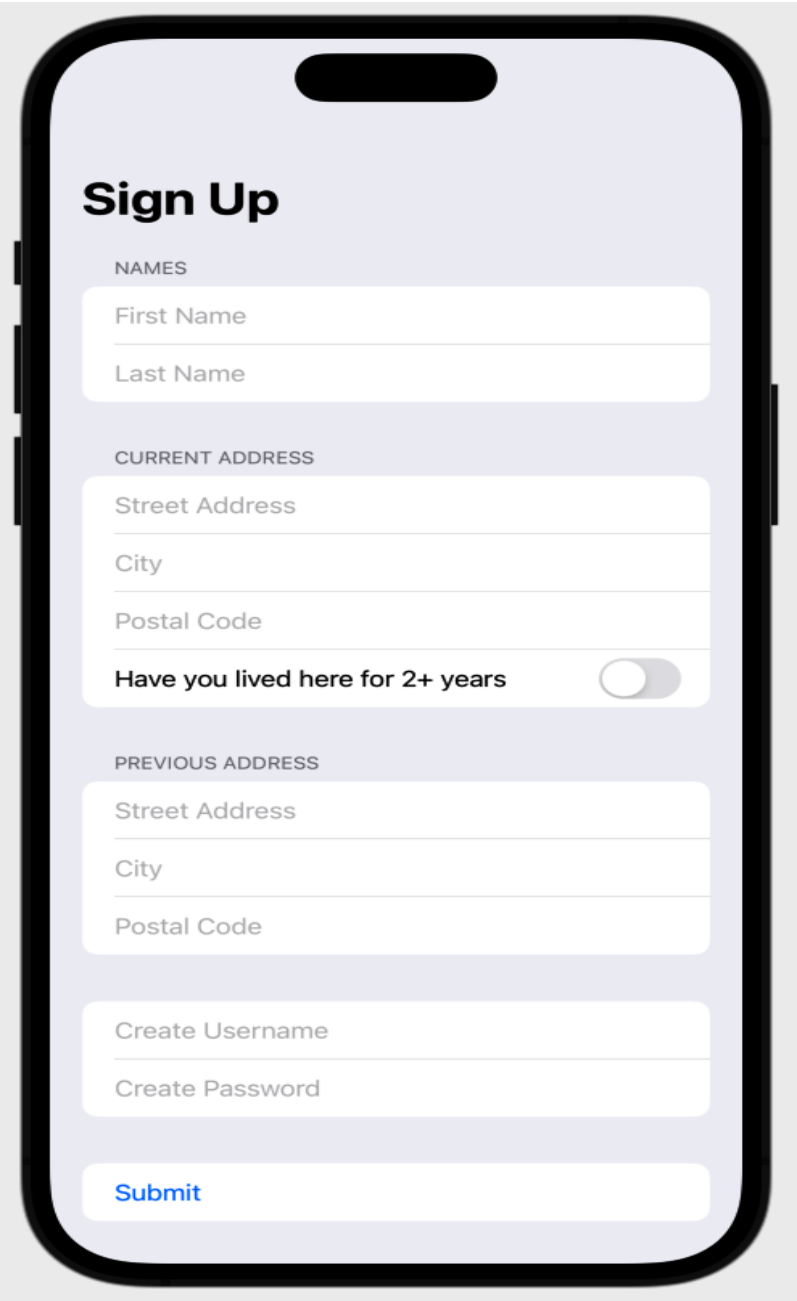
Blue Dragonfly
around lakes and streams

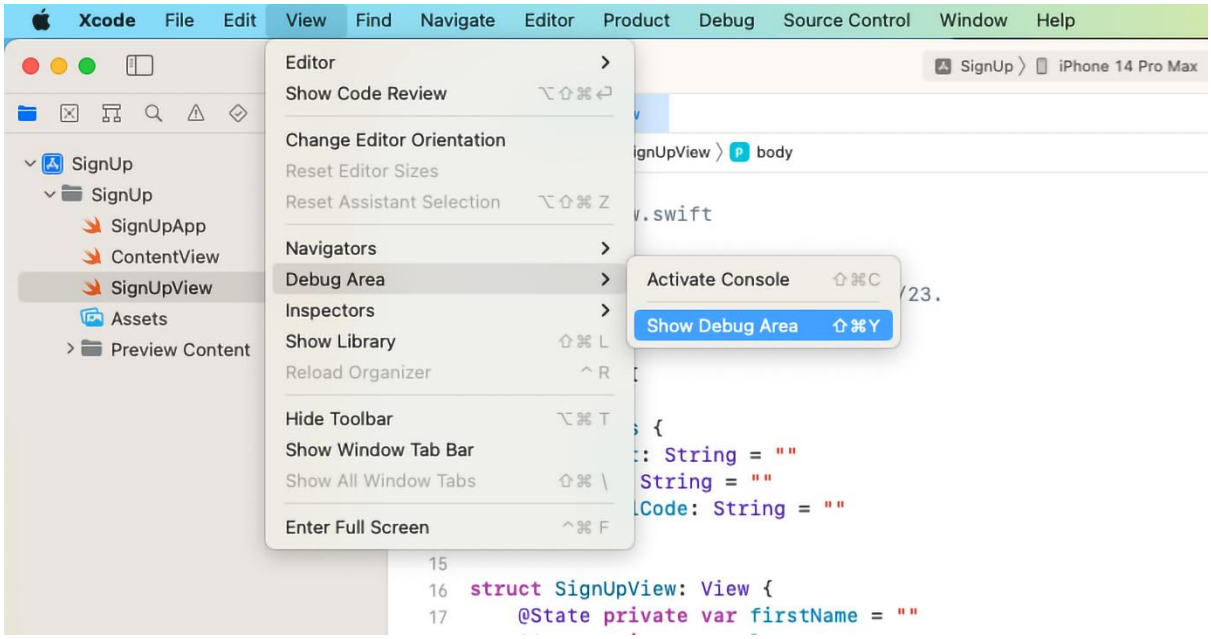


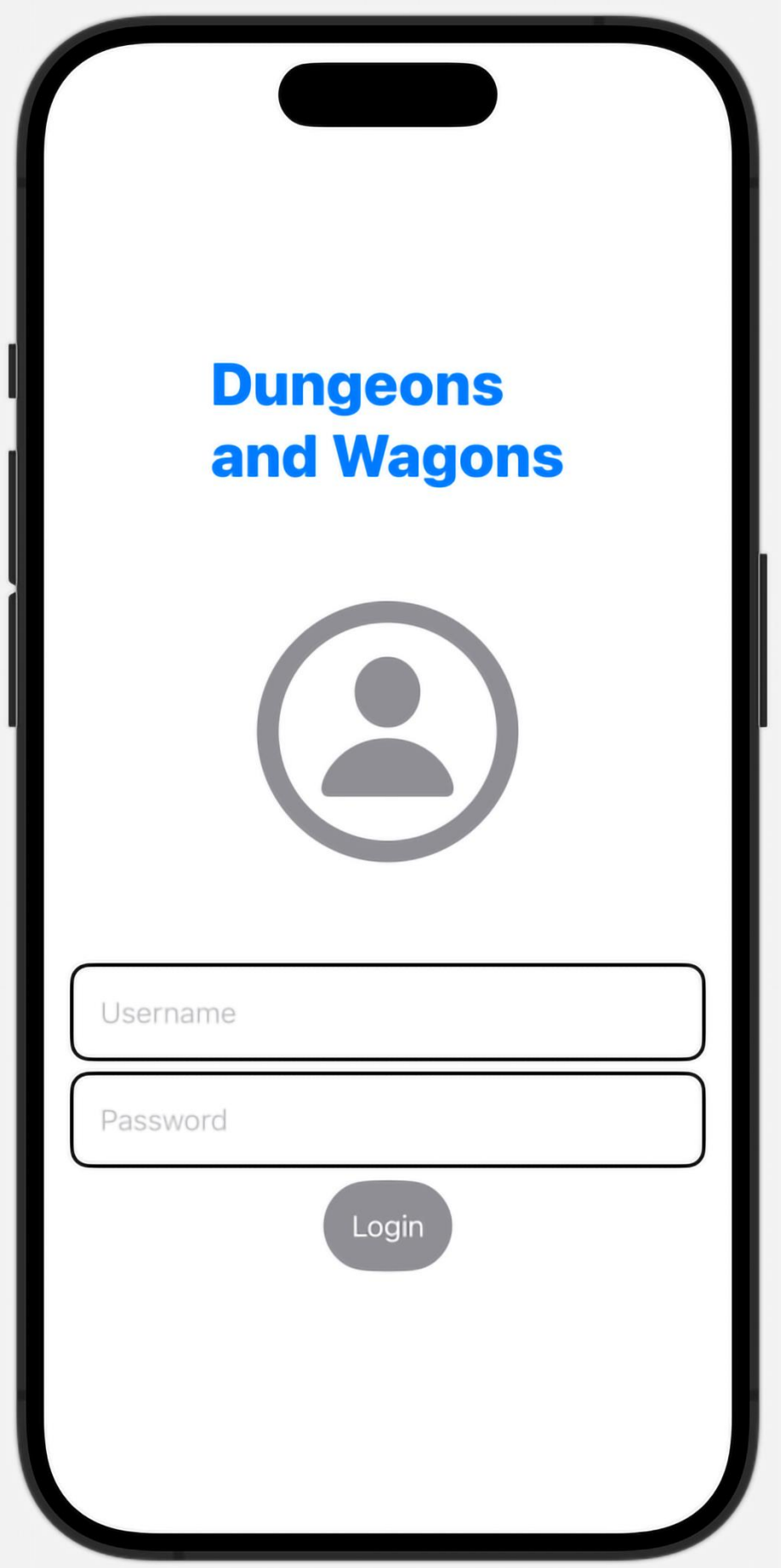
Brown Black Butterfly
deciduous forests

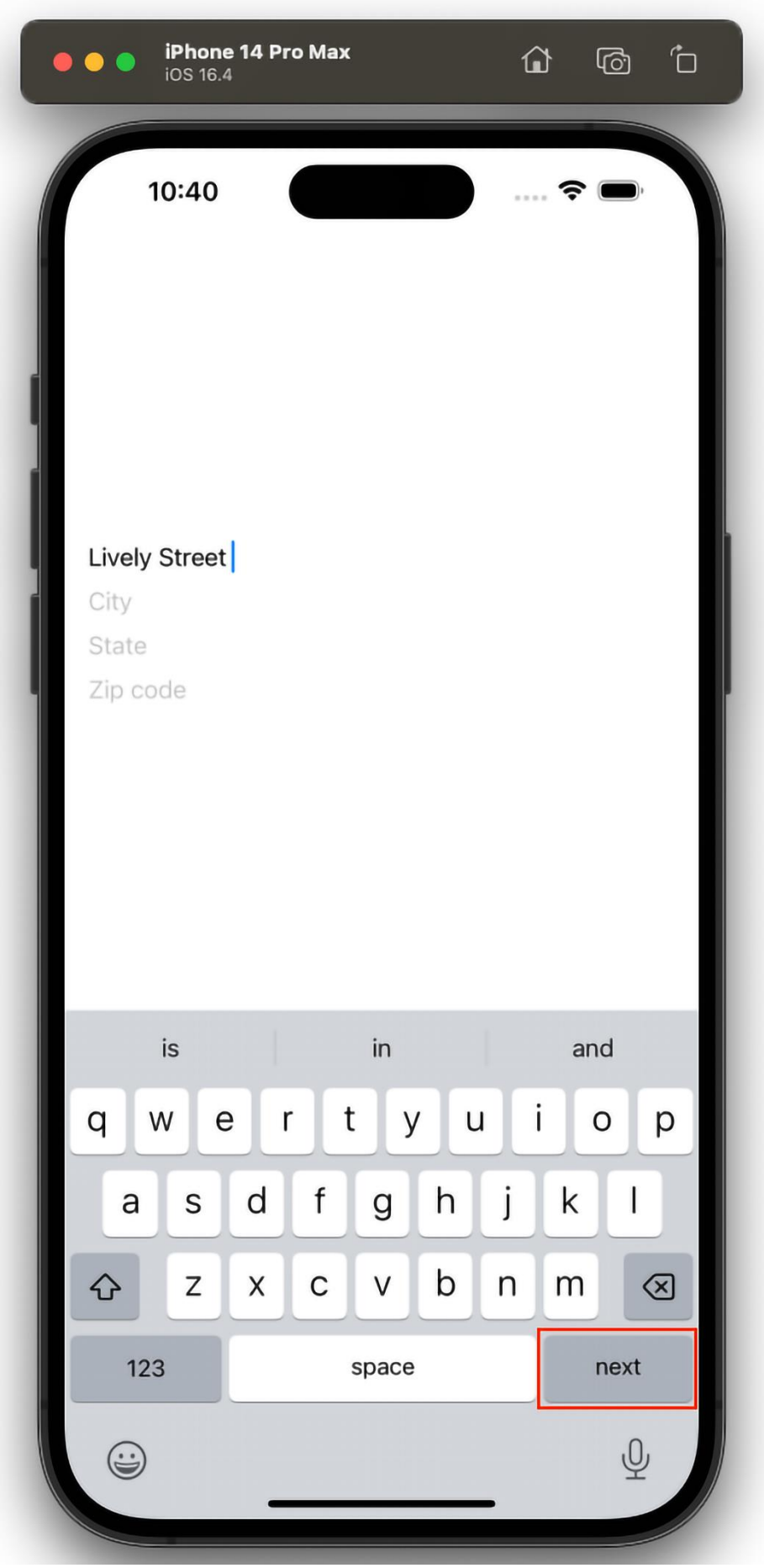

UsingMockDataForPreviews
main
iPhone 15 Pro
UsingMockDataForPreviews: Ready | Today at 4:16 PM
UsingMockDataForPreviews
insectData
ContentView
Insect
UsingMockDataForPreviews
UsingMockDataForPreviews
UsingMockDataForPreviewsApp
ContentView
Insect
Assets
Preview Content
Preview Assets
insectData
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
UsingMockDataForPreviews
TARGETS
UsingMockDataForPreviews
Basic
Customized
All
Combined
Levels
Development Assets
Deployment
Setting
UsingMockDataForPreviews
Development Assets
"UsingMockDataForPreviews/Preview Content"

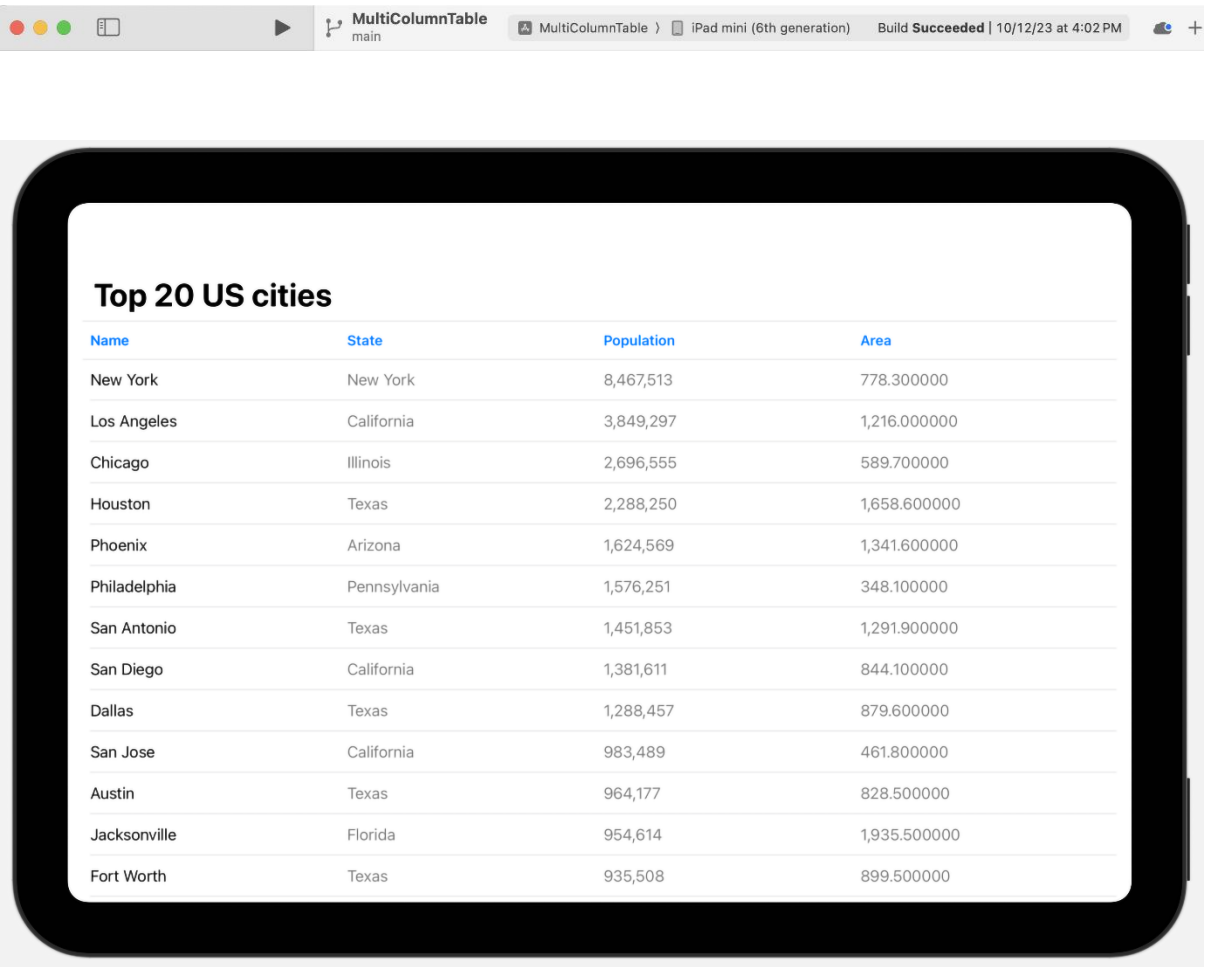
Chapter 5: Creating New Components and Grouping Views with Container Views

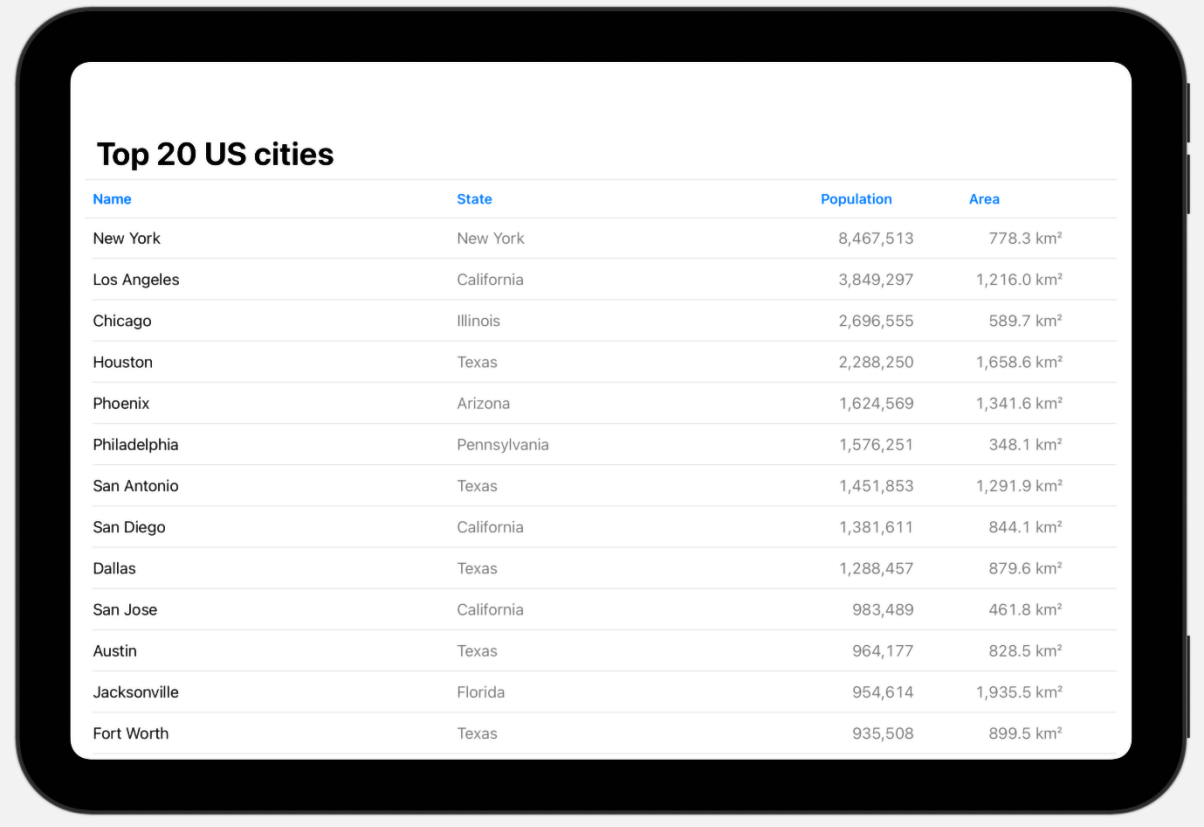



Xcode
File
Edit
View
Find
Navigate
Editor
Product
Debug
Source Control
Window
Help
Editor
Show Code Review
Change Editor Orientation
Reset Editor Sizes
Reset Assistant Selection
Navigators
Debug Area
Inspectors
Show Library
Reload Organizer
Hide Toolbar
Show Window Tab Bar
Show All Window Tabs
Enter Full Screen
Activate Console
Show Debug Area
SignUp
iPhone 14 Pro Max
SignUp
SignUpApp
ContentView
SignUpView
Assets
Preview Content
body
struct SignUpView: View {
@State private var firstName = ""


Dungeons
and Wagons
Username
Password
Login

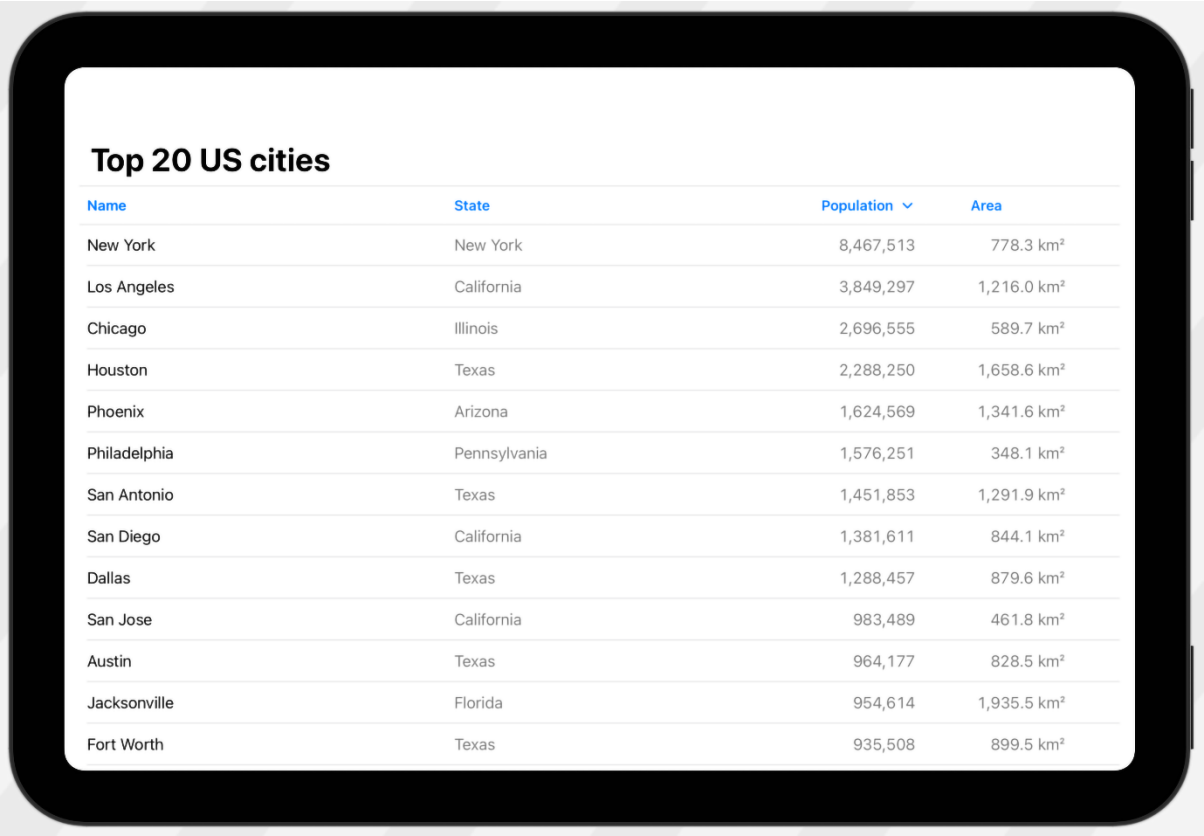

iPhone 14 Pro Max
iOS 16.4
10:40
Lively Street
City
State
Zip code
is
in
and
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
123
space
next


MultiColumnTable
main
MultiColumnTable 〉 iPad mini (6th generation)
Build Succeeded | 10/12/23 at 4:02 PM
Top 20 US cities
Name
State
Population
Area
New York
New York
8,467,513
778.300000
Los Angeles
California
3,849,297
1,216.000000
Chicago
Illinois
2,696,555
589.700000
Houston
Texas
2,288,250
1,658.600000
Phoenix
Arizona
1,624,569
1,341.600000
Philadelphia
Pennsylvania
1,576,251
348.100000
San Antonio
Texas
1,451,853
1,291.900000
San Diego
California
1,381,611
844.100000
Dallas
Texas
1,288,457
879.600000
San Jose
California
983,489
461.800000
Austin
Texas
964,177
828.500000
Jacksonville
Florida
954,614
1,935.500000
Fort Worth
Texas
935,508
899.500000



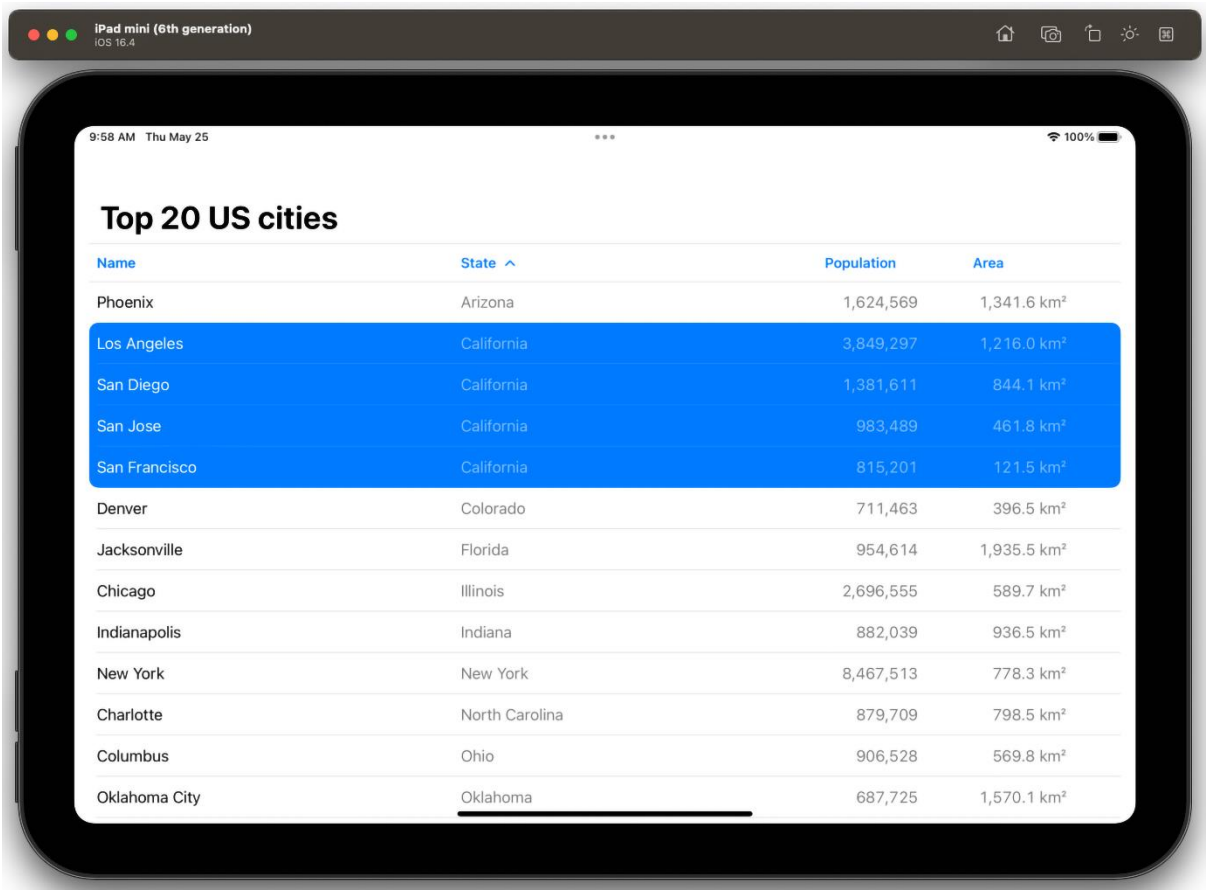
Top 20 US cities

Name	State	Population	Area
New York	New York	8,467,513	778.3 km²
Los Angeles	California	3,849,297	1,216.0 km²
Chicago	Illinois	2,696,555	589.7 km²
Houston	Texas	2,288,250	1,658.6 km²
Phoenix	Arizona	1,624,569	1,341.6 km²
Philadelphia	Pennsylvania	1,576,251	348.1 km²
San Antonio	Texas	1,451,853	1,291.9 km²
San Diego	California	1,381,611	844.1 km²
Dallas	Texas	1,288,457	879.6 km²
San Jose	California	983,489	461.8 km²
Austin	Texas	964,177	828.5 km²
Jacksonville	Florida	954,614	1,935.5 km²
Fort Worth	Texas	935,508	899.5 km²



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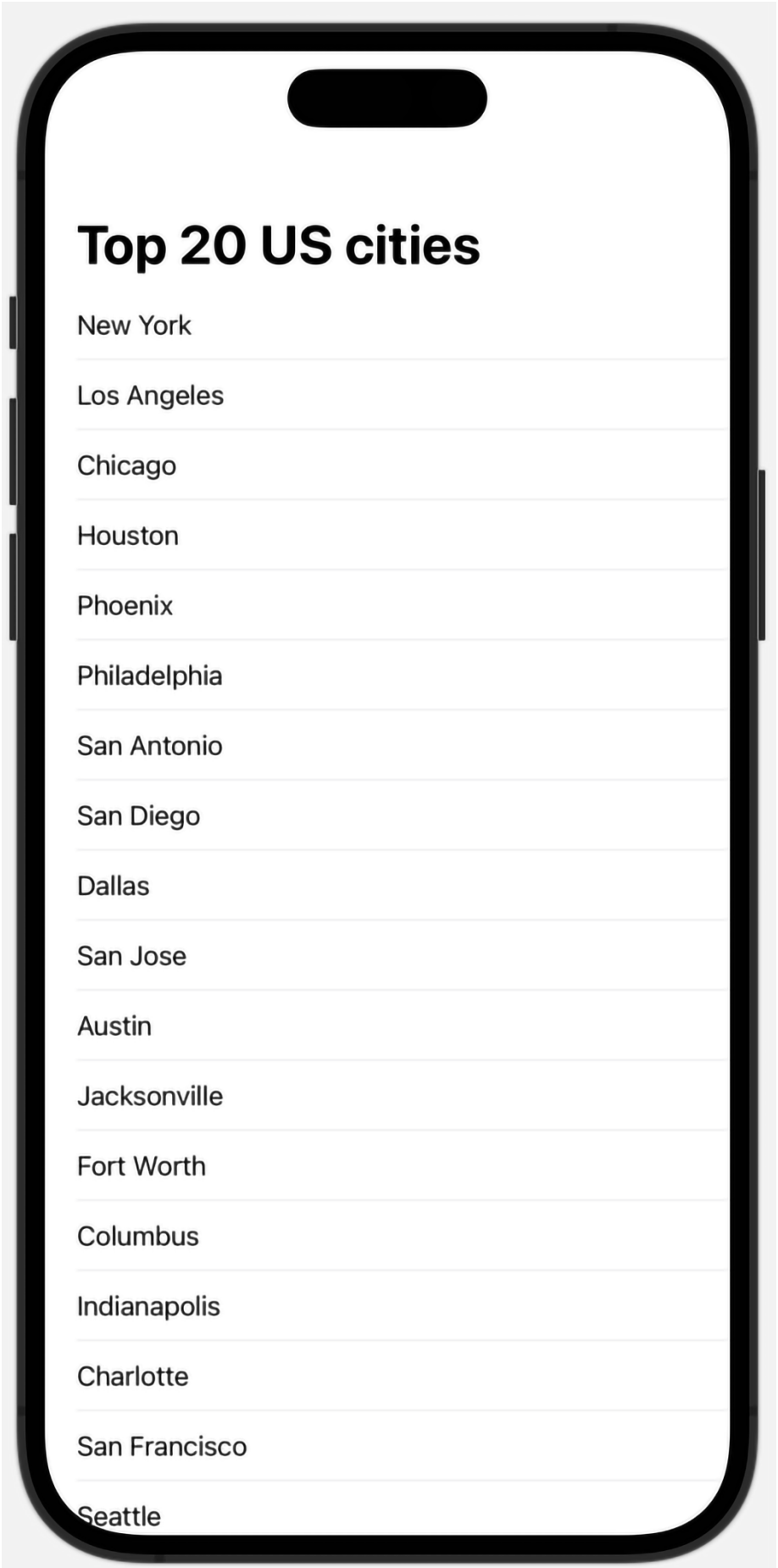


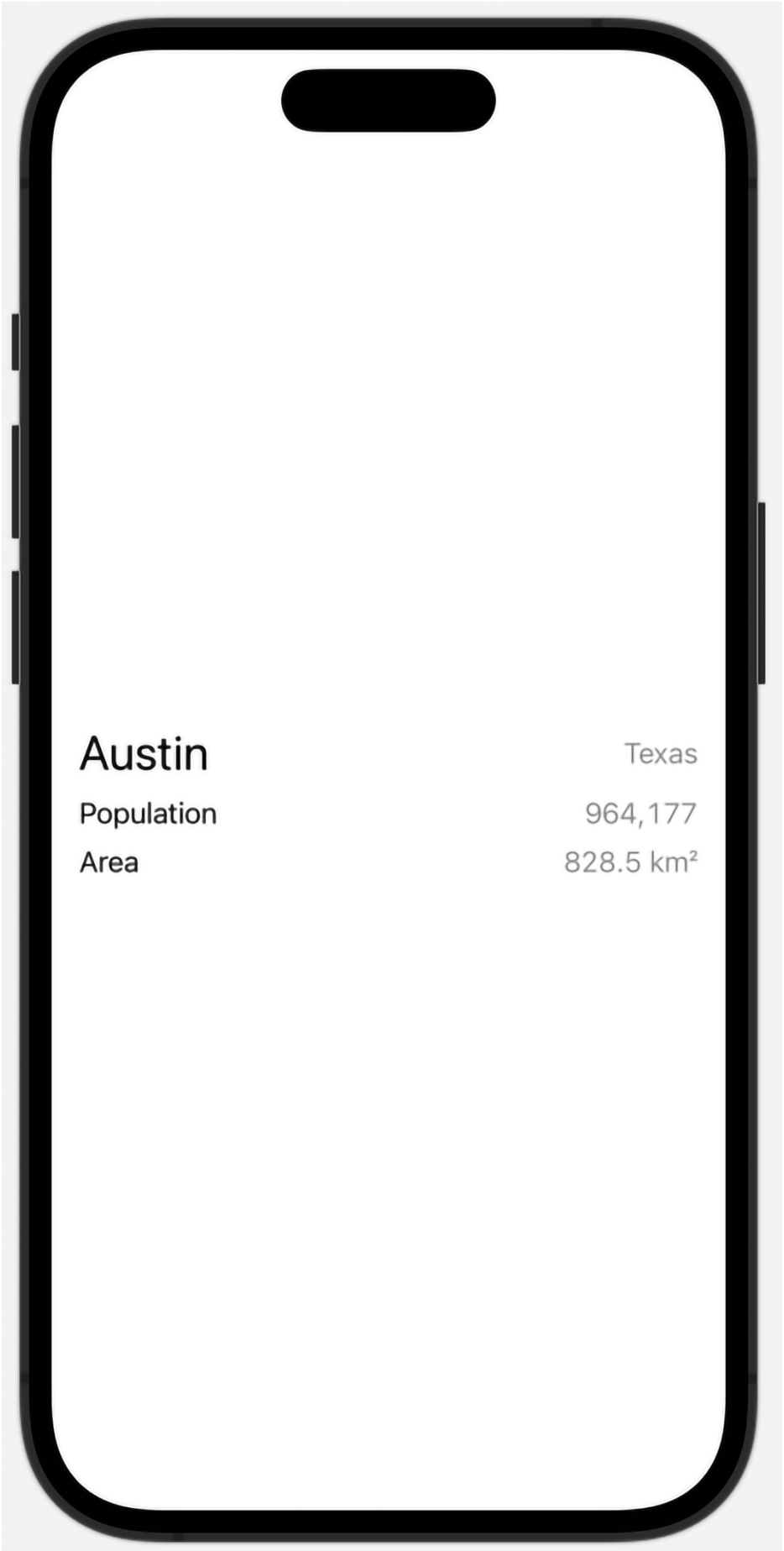
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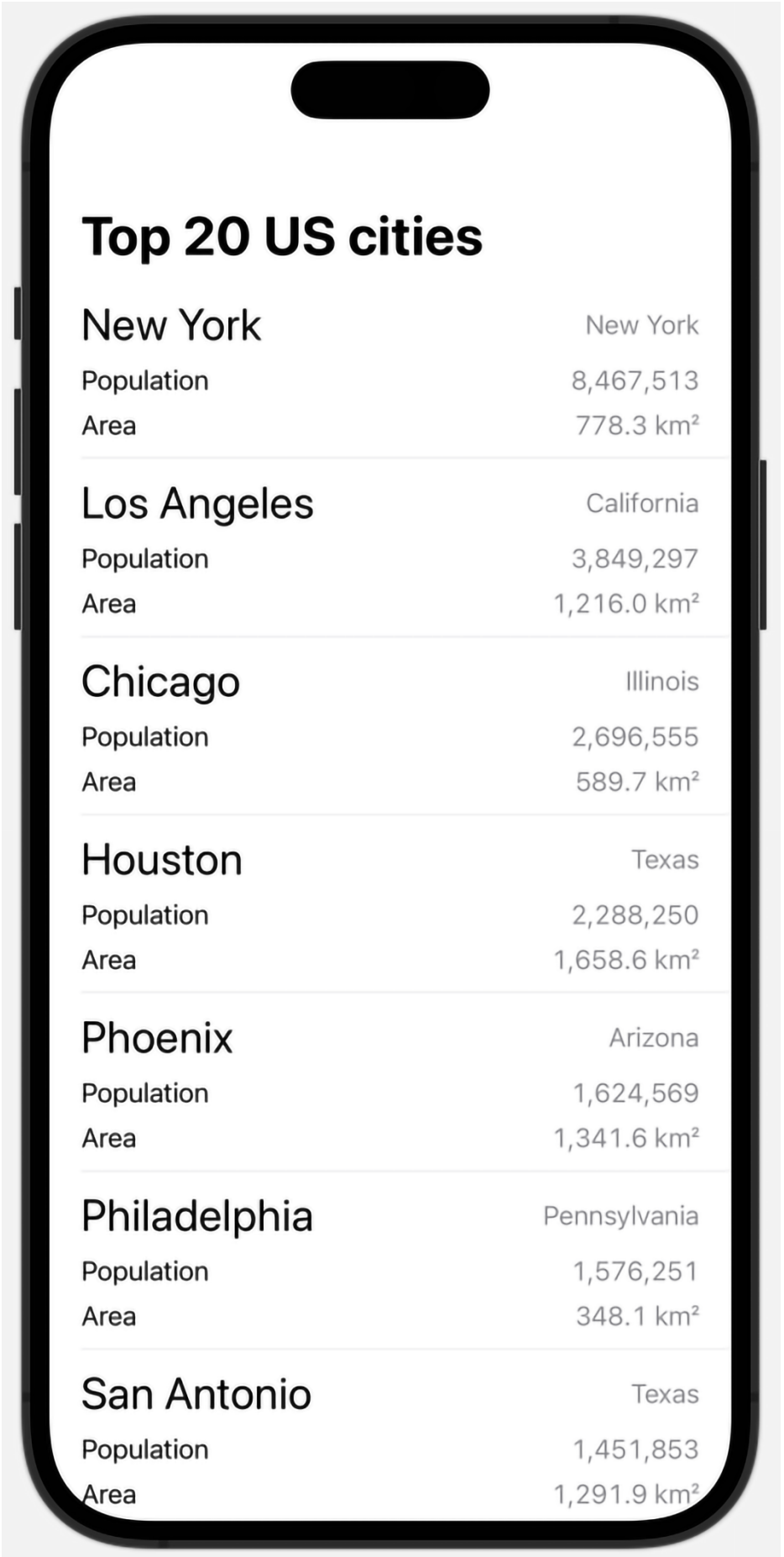
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Selected = { Los Angeles, California | San Diego, California | San Francisco, California | San Jose, California }
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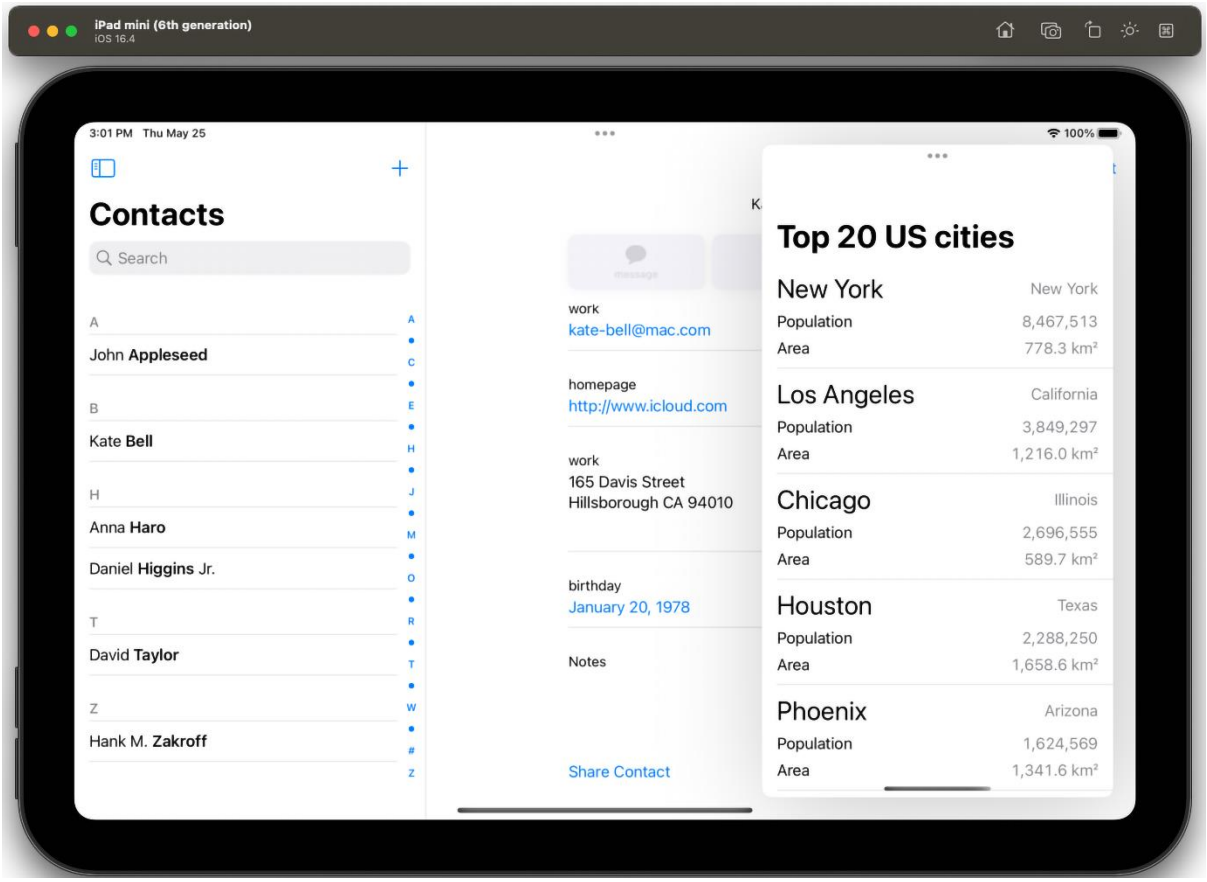
Executable Previews Filter

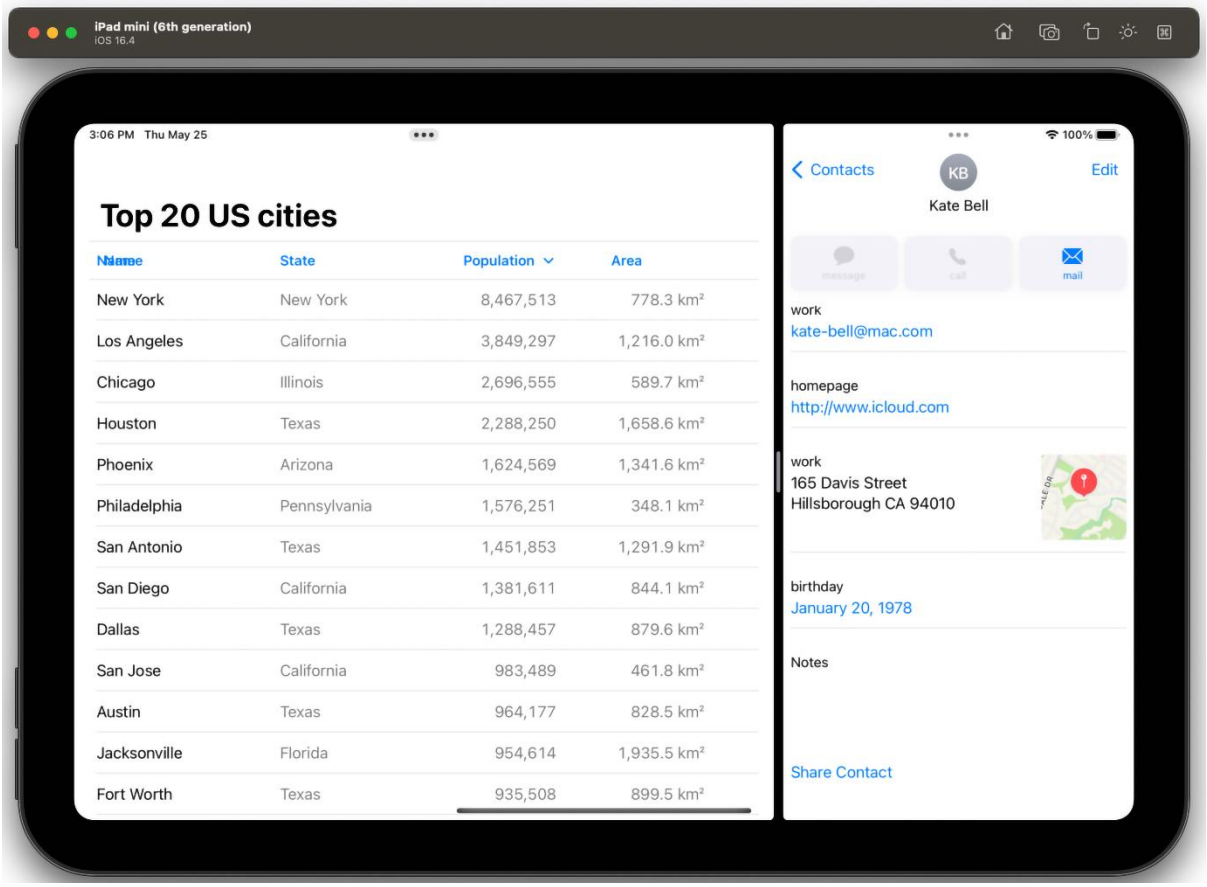

Simulator
File
Edit
Device
I/O
Features
Debug
Window
Help
iPad mini (6th generation)
iOS 17.0
Input
Keyboard
Audio Input
Audio Output
Increase Volume
Decrease Volume
External Displays
Use the Same Keyboard Language as macOS
Connect Hardware Keyboard
Toggle Software Keyboard
4:28 PM Sun Dec 10
100%
Contacts
Shortcuts
Freeform
Health
SwiftDataFlash...
DisplayingPopo...
ModernNavigati...
MultiColumnTable
SUN
10

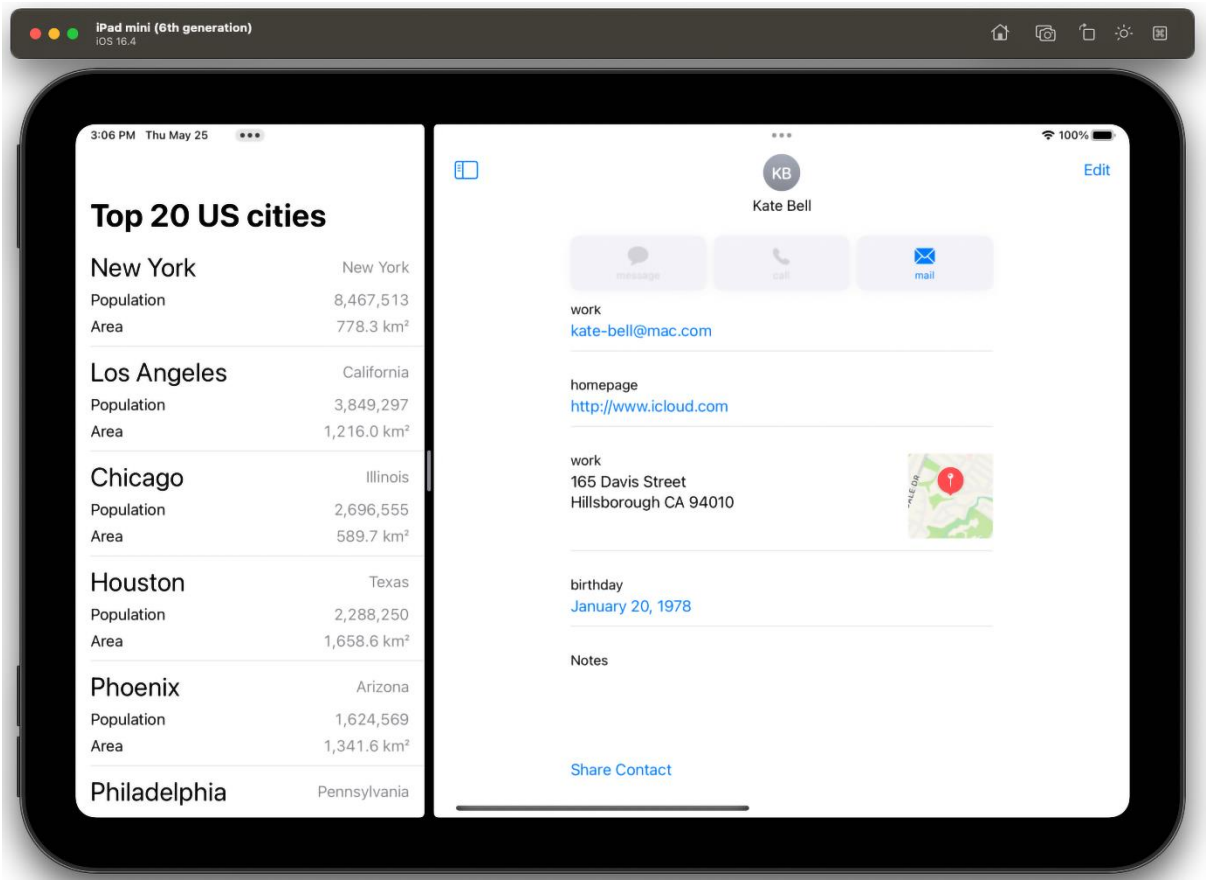

Top 20 US cities
New York
Los Angeles
Chicago
Houston
Phoenix
Philadelphia
San Antonio
San Diego
Dallas
San Jose
Austin
Jacksonville
Fort Worth
Columbus
Indianapolis
Charlotte
San Francisco
Seattle

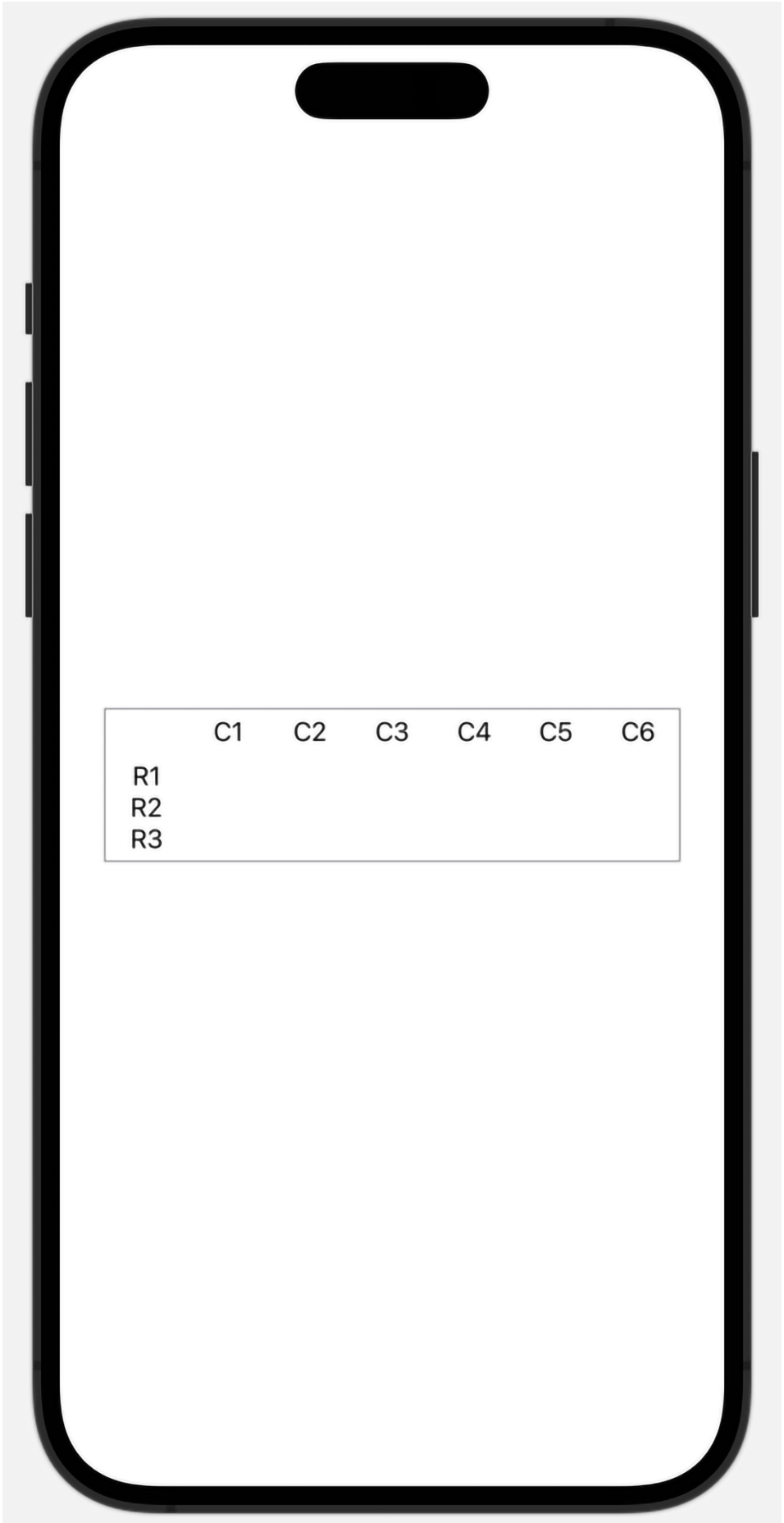

Austin
Texas
Population
964,177
Area
828.5 km²

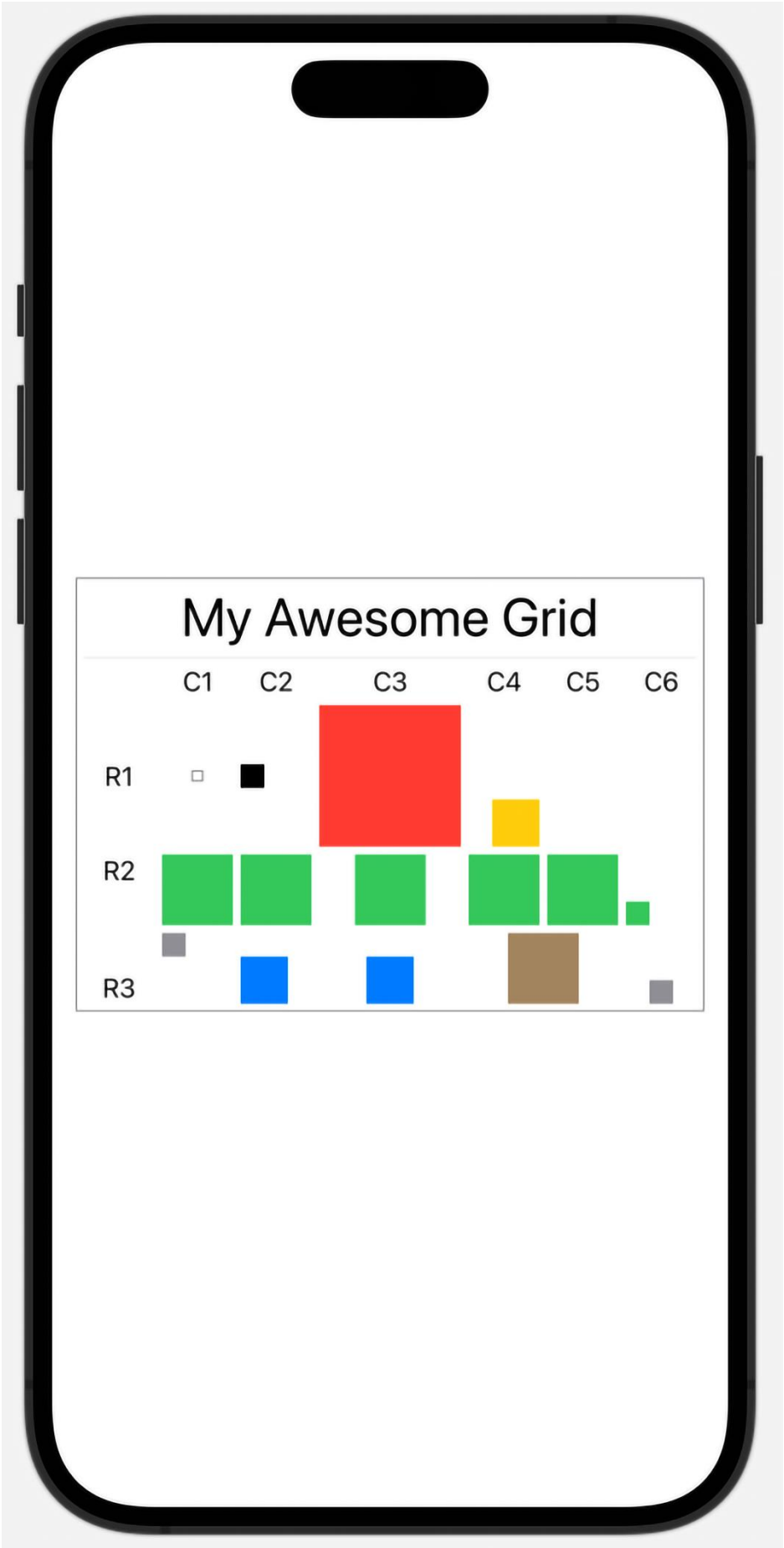

Top 20 US cities
New York
New York
Population
8,467,513
Area
778.3 km²
Los Angeles
California
Population
3,849,297
Area
1,216.0 km²
Chicago
Illinois
Population
2,696,555
Area
589.7 km²
Houston
Texas
Population
2,288,250
Area
1,658.6 km²
Phoenix
Arizona
Population
1,624,569
Area
1,341.6 km²
Philadelphia
Pennsylvania
Population
1,576,251
Area
348.1 km²
San Antonio
Texas
Population
1,451,853
Area
1,291.9 km²


iPad mini (6th generation)
iOS 16.4
3:01 PM Thu May 25
100%
Contacts
Search
A
John Appleseed
B
Kate Bell
H
Anna Haro
Daniel Higgins Jr.
T
David Taylor
Z
Hank M. Zakroff
A C E H J M O R T W # Z
work
kate-bell@mac.com
homepage
http://www.icloud.com
work
165 Davis Street
Hillsborough CA 94010
birthday
January 20, 1978
Notes
Share Contact
Top 20 US cities
New York New York
Population 8,467,513
Area 778.3 km²
Los Angeles California
Population 3,849,297
Area 1,216.0 km²
Chicago Illinois
Population 2,696,555
Area 589.7 km²
Houston Texas
Population 2,288,250
Area 1,658.6 km²
Phoenix Arizona
Population 1,624,569
Area 1,341.6 km²

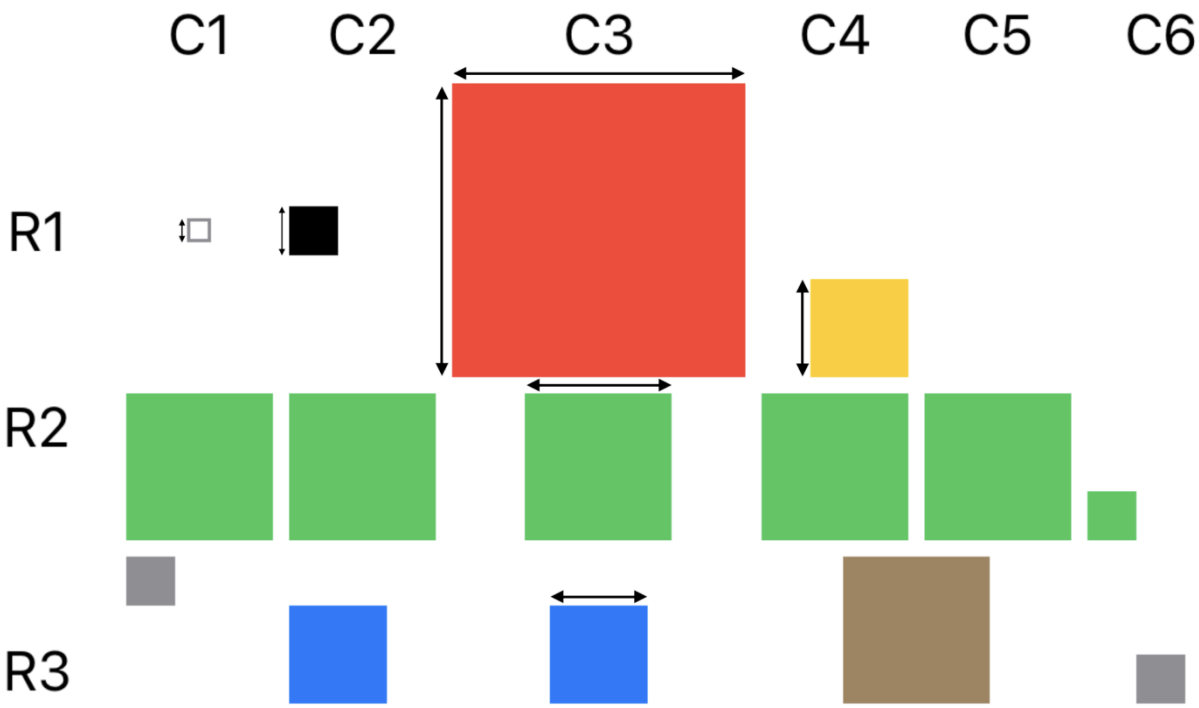

iPad mini (6th generation)
iOS 16.4
3:06 PM Thu May 25
100%
Top 20 US cities
Name State Population Area
New York New York 8,467,513 778.3 km²
Los Angeles California 3,849,297 1,216.0 km²
Chicago Illinois 2,696,555 589.7 km²
Houston Texas 2,288,250 1,658.6 km²
Phoenix Arizona 1,624,569 1,341.6 km²
Philadelphia Pennsylvania 1,576,251 348.1 km²
San Antonio Texas 1,451,853 1,291.9 km²
San Diego California 1,381,611 844.1 km²
Dallas Texas 1,288,457 879.6 km²
San Jose California 983,489 461.8 km²
Austin Texas 964,177 828.5 km²
Jacksonville Florida 954,614 1,935.5 km²
Fort Worth Texas 935,508 899.5 km²
Contacts
KB
Edit
Kate Bell
mail
work
kate-bell@mac.com
homepage
http://www.icloud.com
work
165 Davis Street
Hillsborough CA 94010
birthday
January 20, 1978
Notes
Share Contact


iPad mini (6th generation)
iOS 16.4
3:06 PM Thu May 25
100%
Top 20 US cities
New York
New York
Population 8,467,513
Area 778.3 km²
Los Angeles
California
Population 3,849,297
Area 1,216.0 km²
Chicago
Illinois
Population 2,696,555
Area 589.7 km²
Houston
Texas
Population 2,288,250
Area 1,658.6 km²
Phoenix
Arizona
Population 1,624,569
Area 1,341.6 km²
Philadelphia
Pennsylvania
KB
Kate Bell
Edit
message
call
mail
work
kate-bell@mac.com
homepage
http://www.icloud.com
work
165 Davis Street
Hillsborough CA 94010
birthday
January 20, 1978
Notes
Share Contact

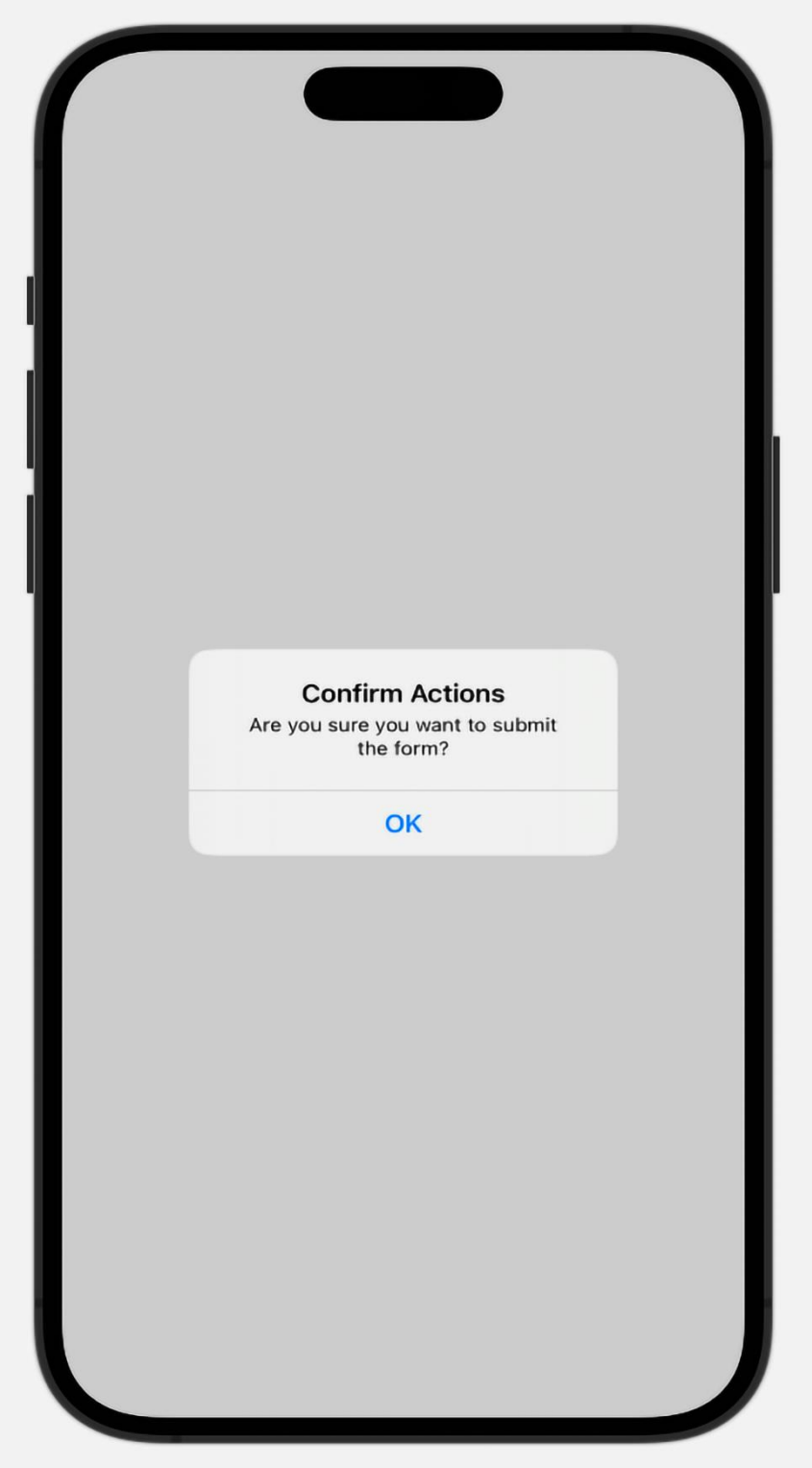

C1
C2
C3
C4
C5
C6
R1
R2
R3


My Awesome Grid
C1
C2
C3
C4
C5
C6
R1
R2
R3

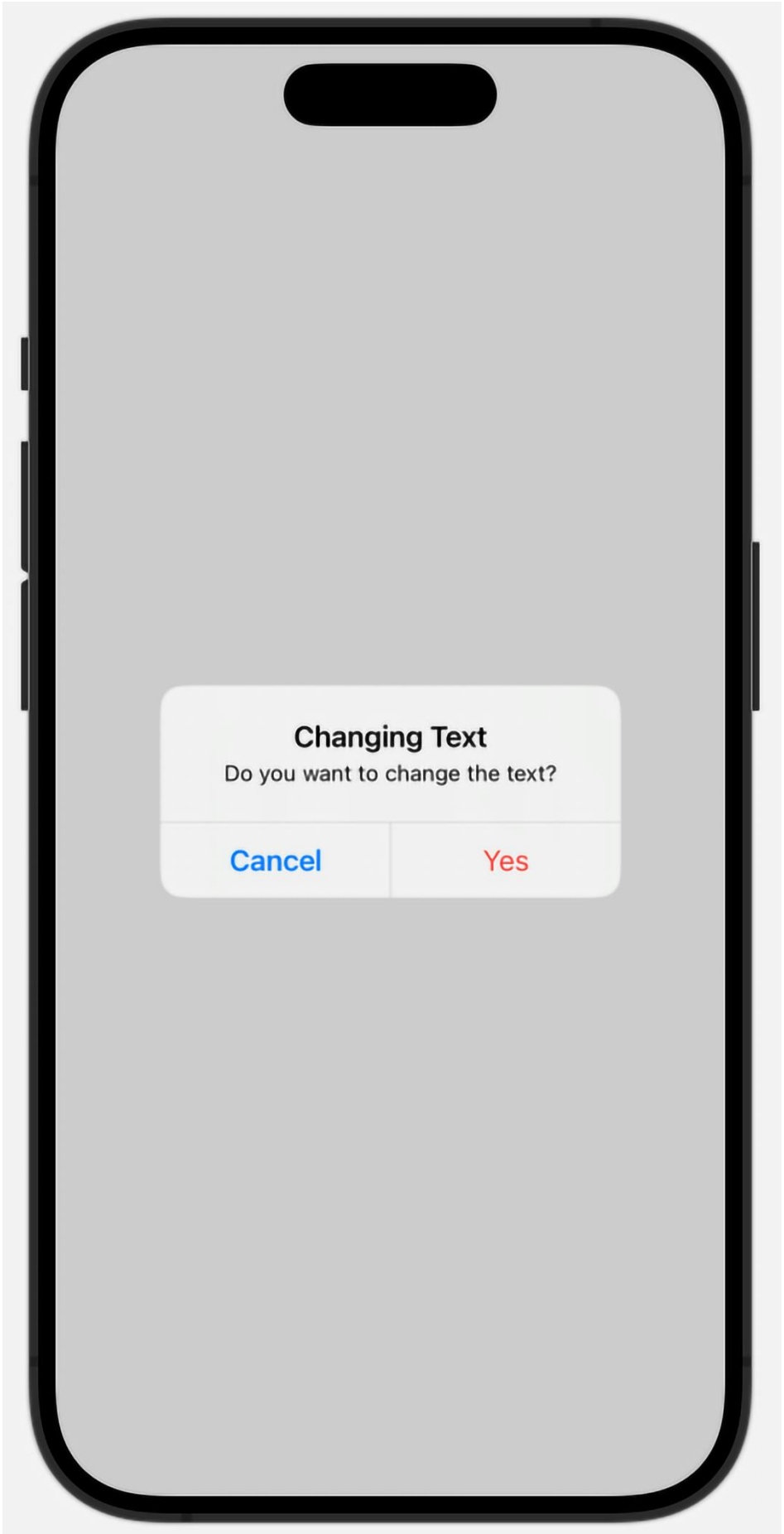
My Awesome Grid

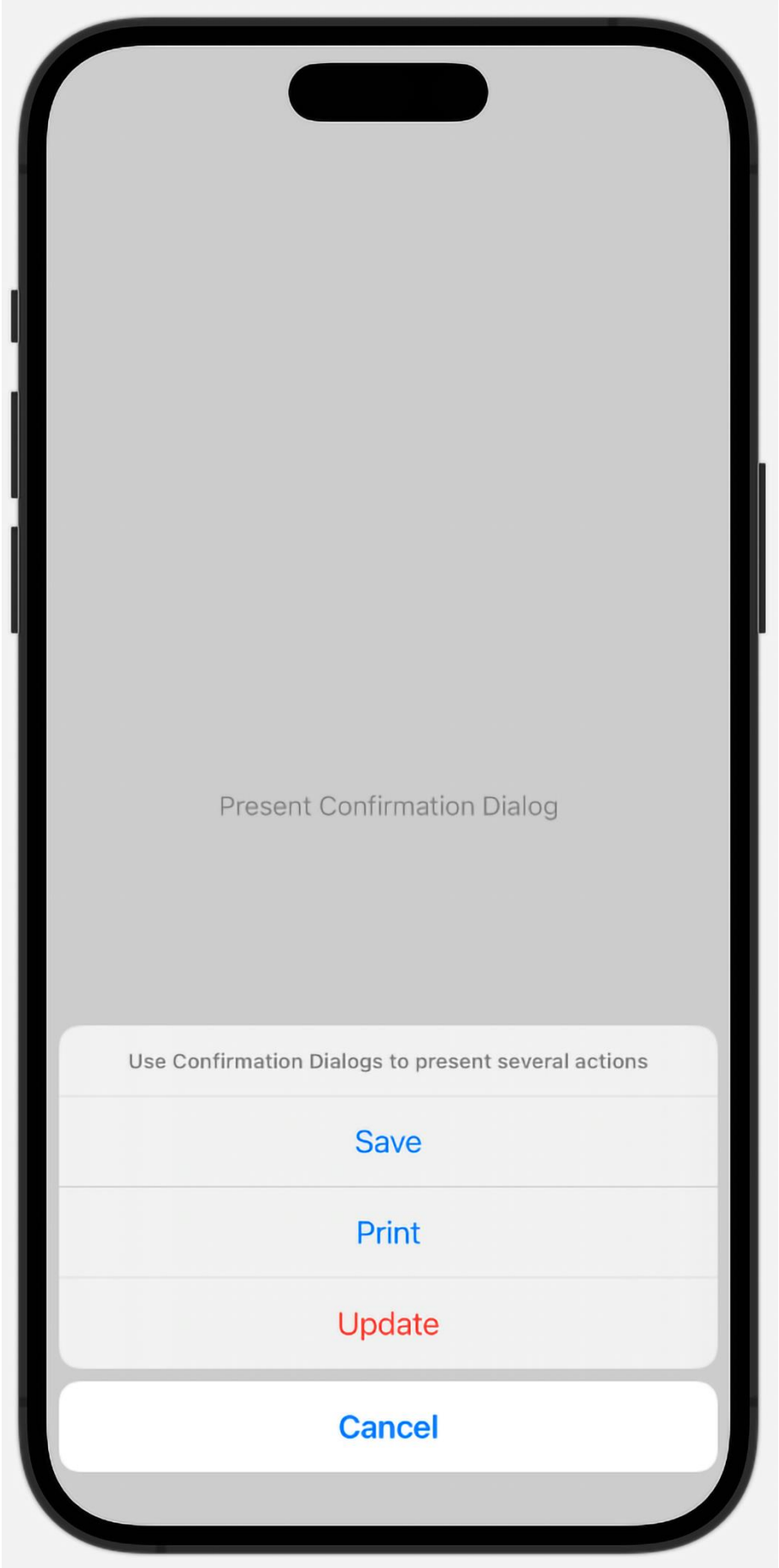


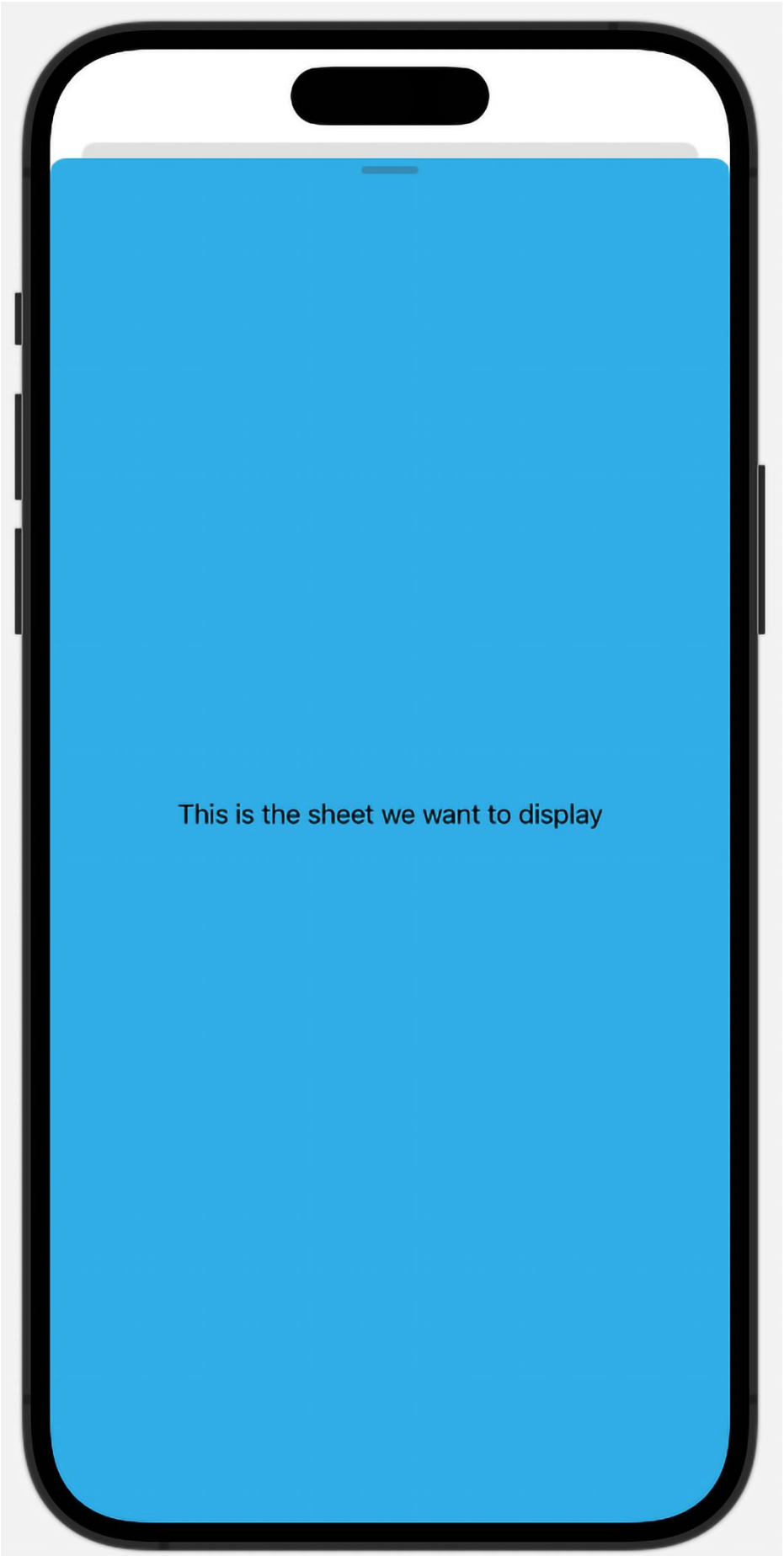
Chapter 6: Presenting Views Modally

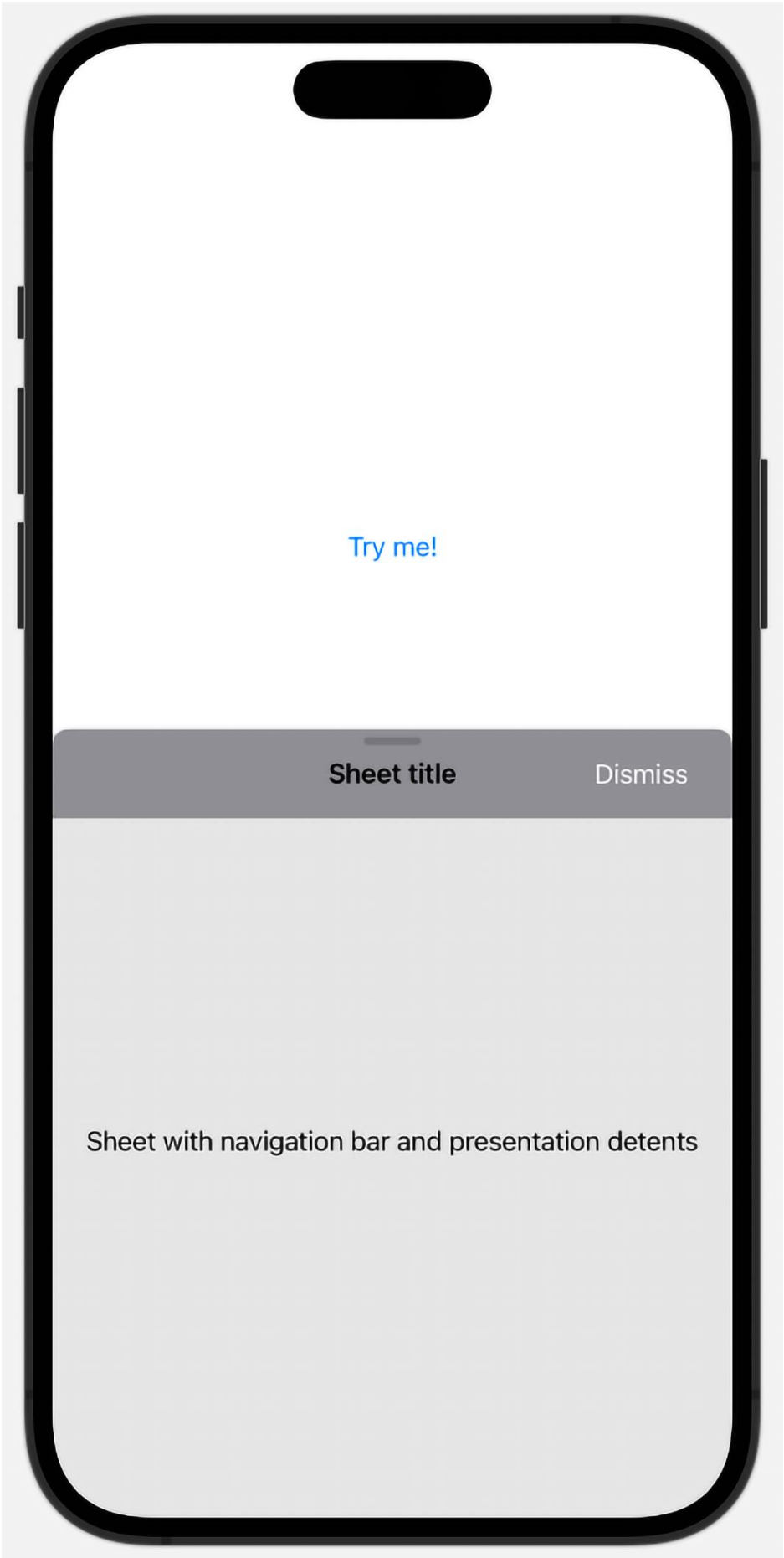


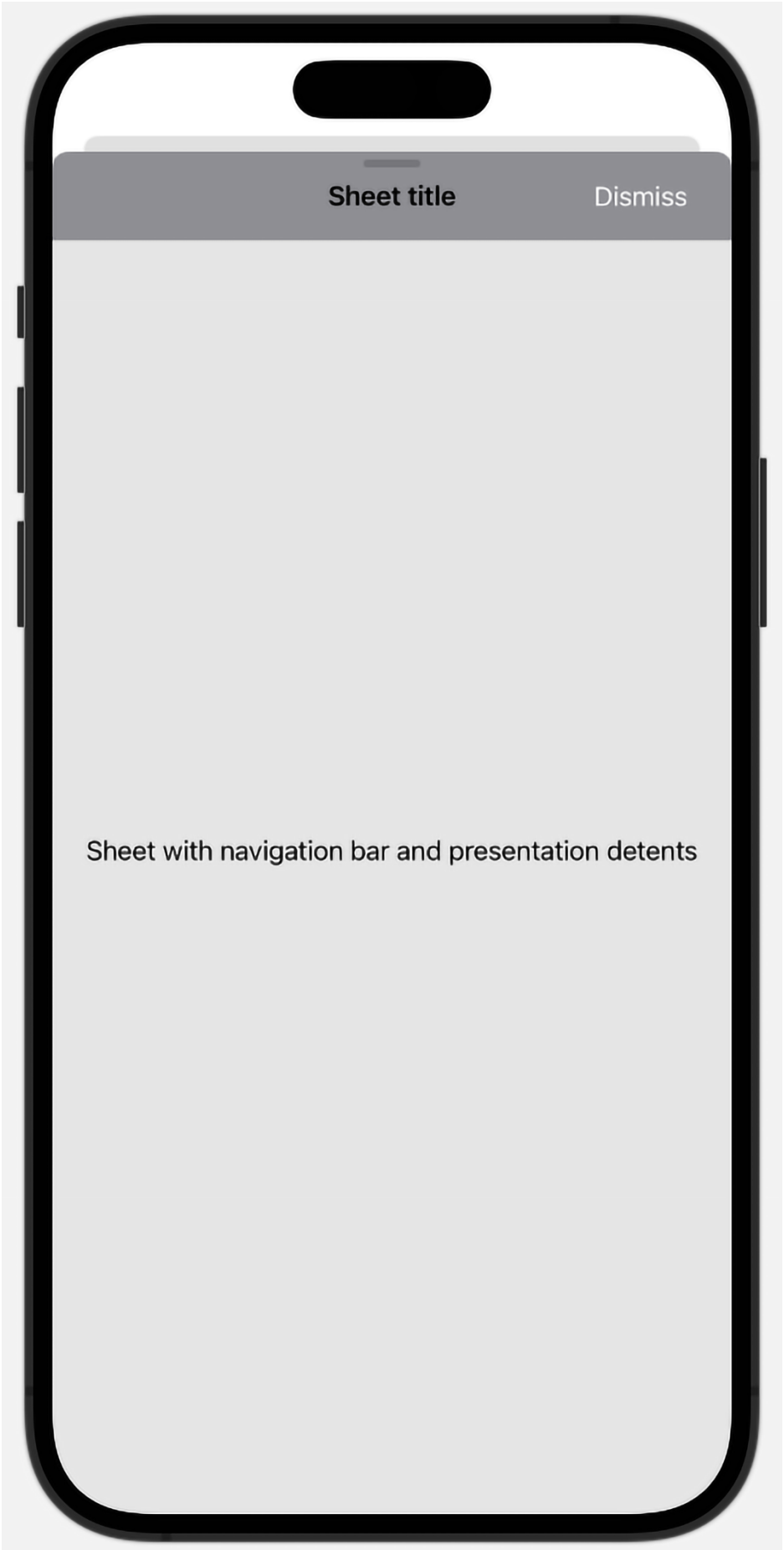

Changing Text
Do you want to change the text?
Do Nothing
Yes

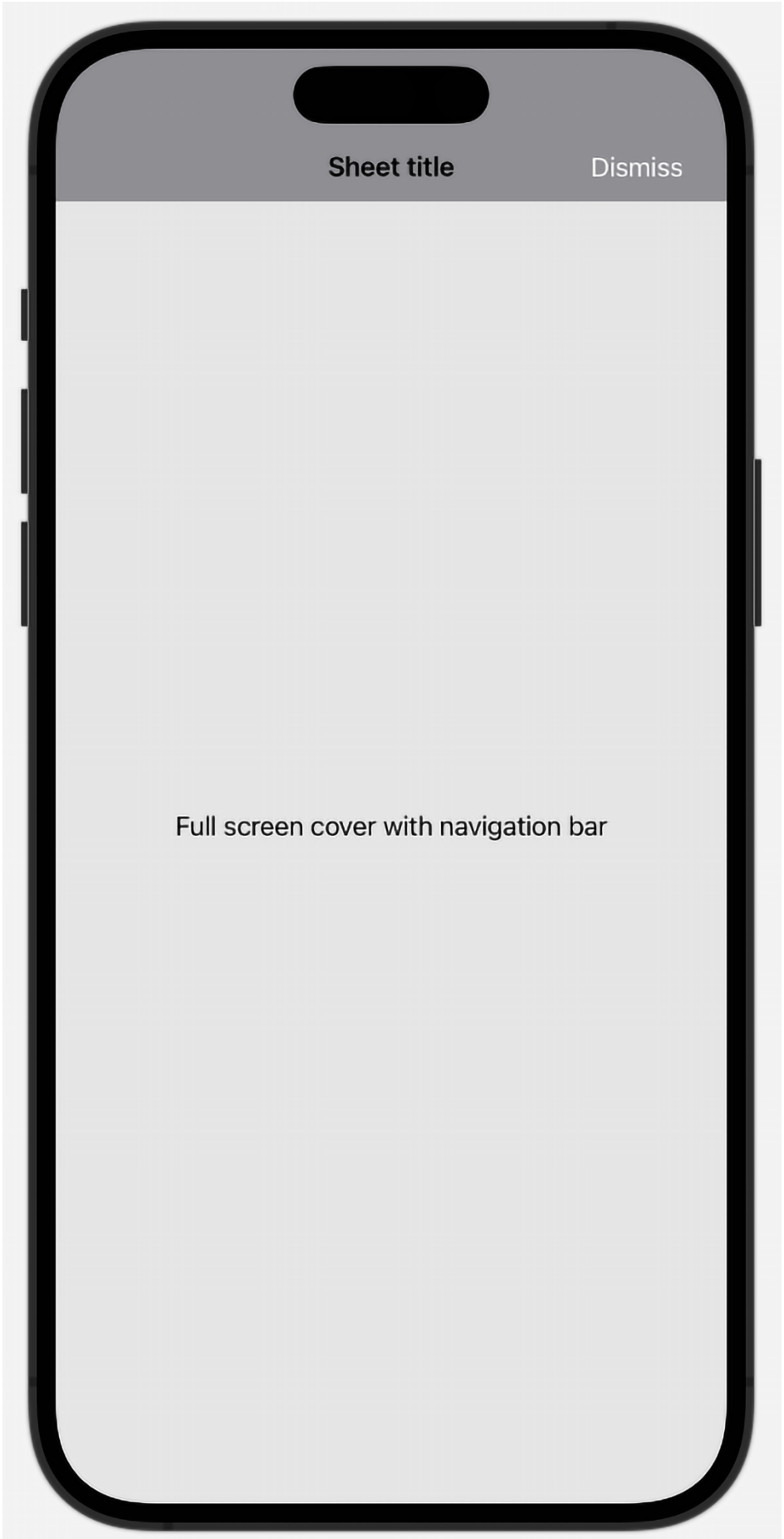

Changing Text
Do you want to change the text?
Cancel
Yes


Present Confirmation Dialog
Use Confirmation Dialogs to present several actions
Save
Print
Update
Cancel

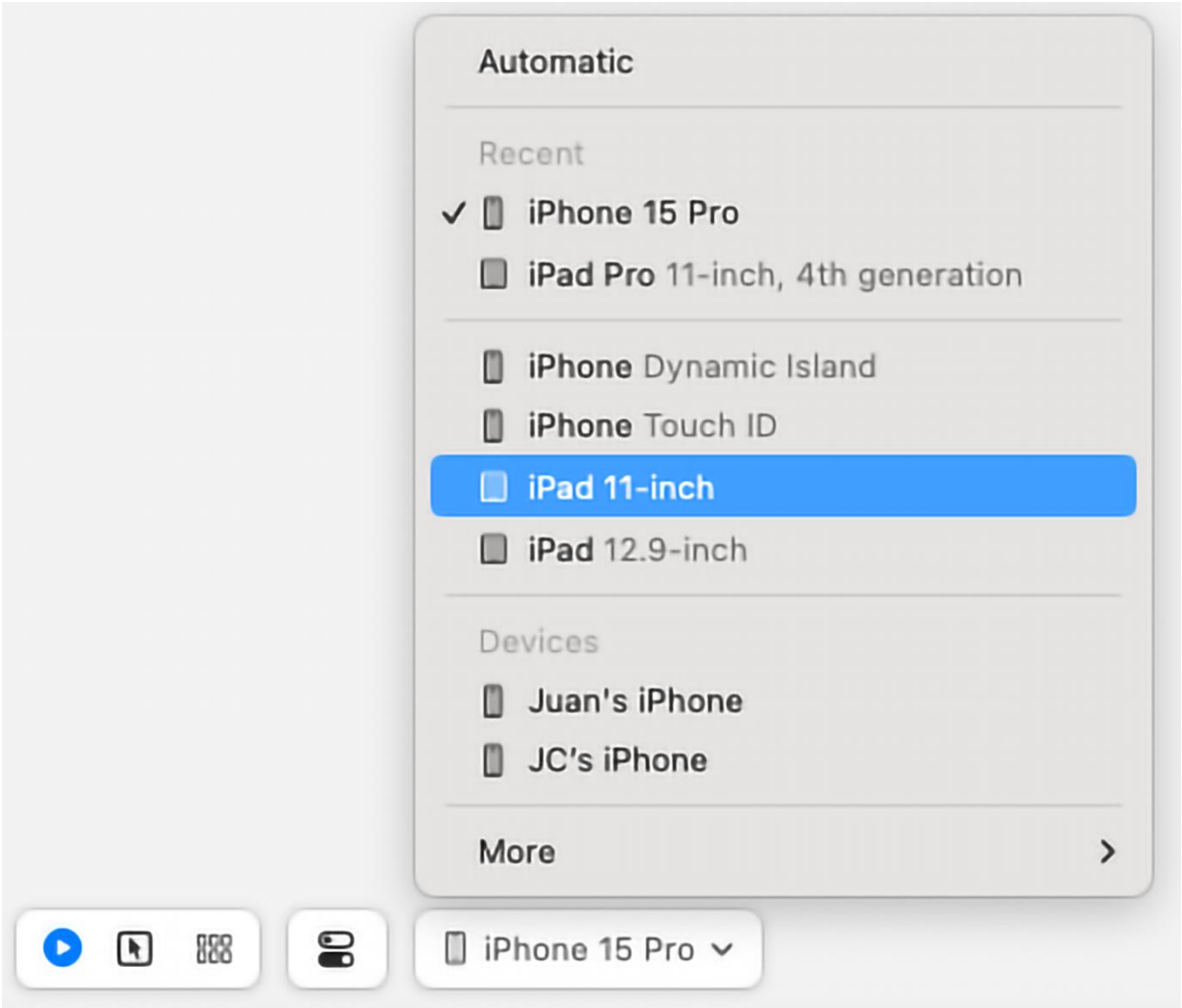

This is the sheet we want to display

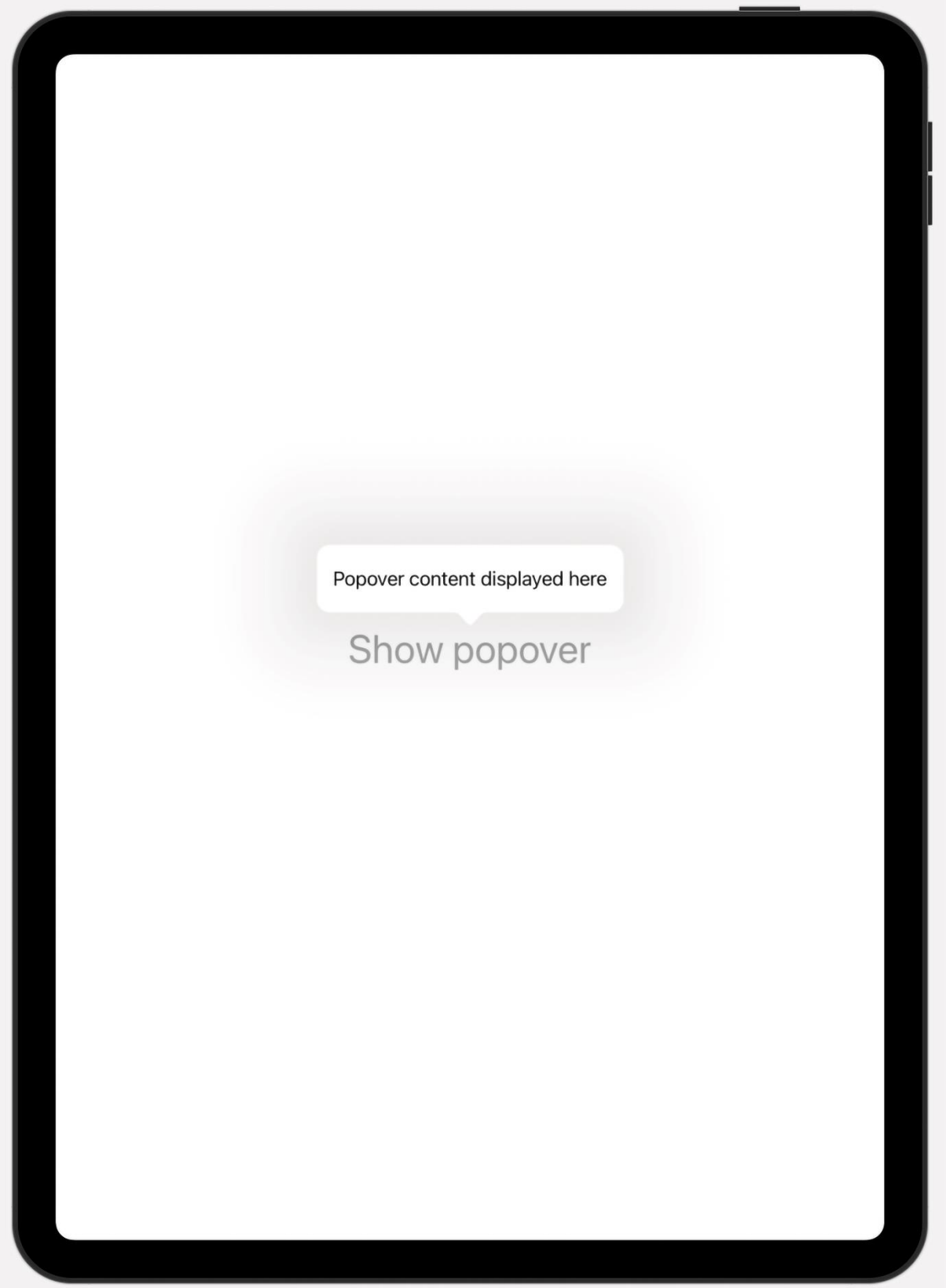

Try me!
Sheet title
Dismiss
Sheet with navigation bar and presentation detents


Sheet title
Dismiss
Sheet with navigation bar and presentation detents


Sheet title
Dismiss
Full screen cover with navigation bar

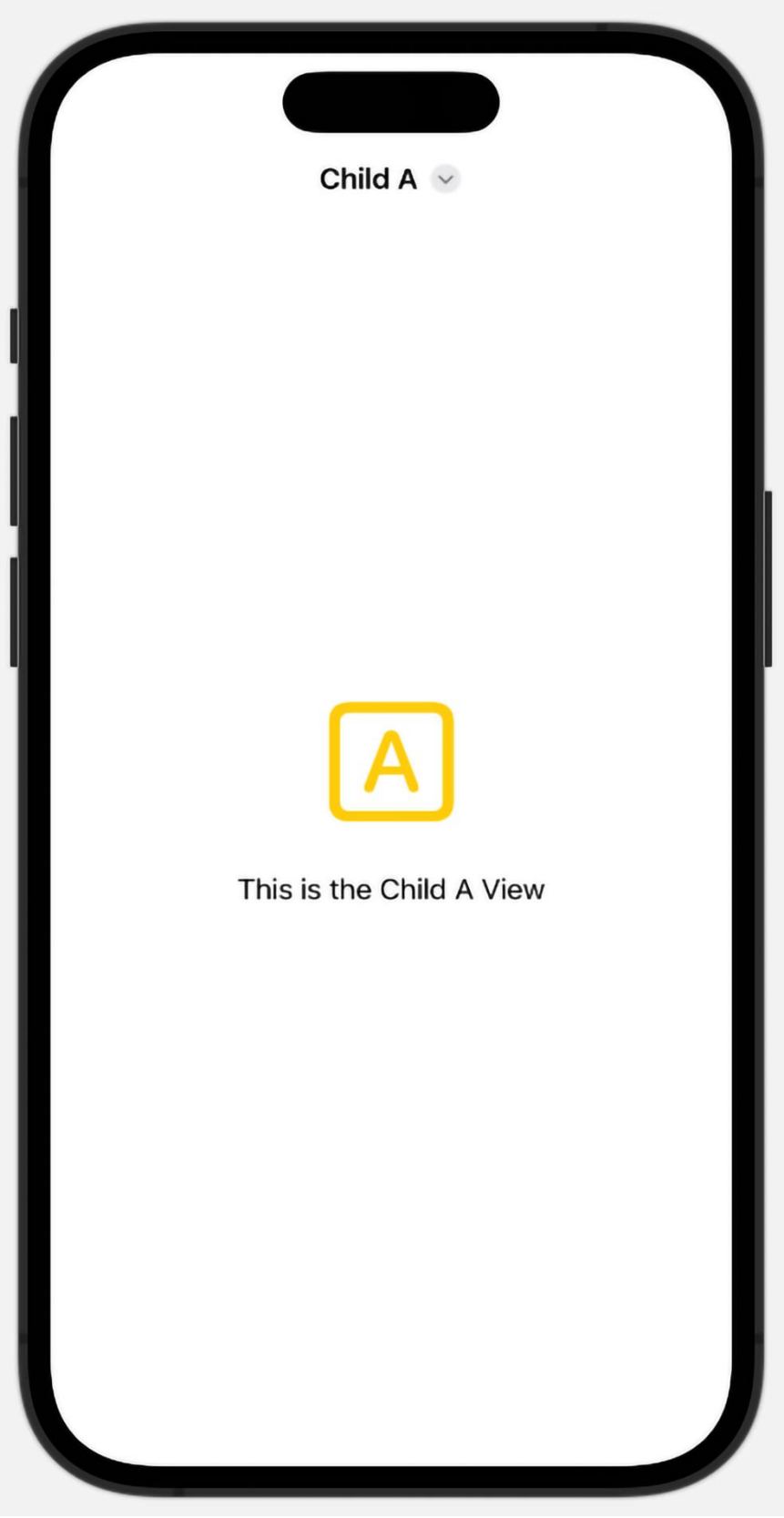

iPhone 15 Pro


Automatic
Recent
iPhone 15 Pro
iPad Pro 11-inch, 4th generation
iPhone Dynamic Island
iPhone Touch ID
iPad 11-inch
iPad 12.9-inch
Devices
Juan's iPhone
JC's iPhone
More
iPhone 15 Pro

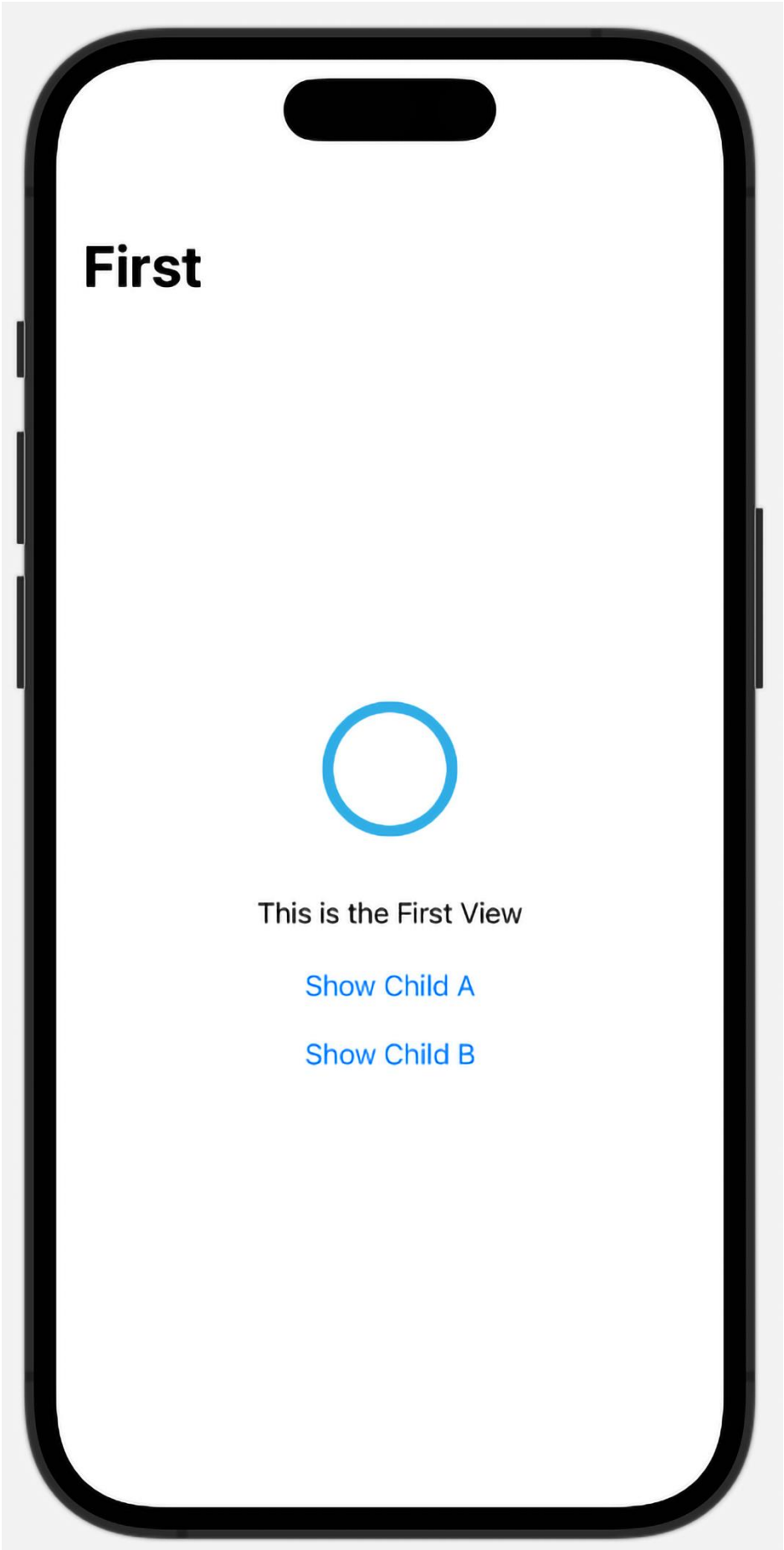

Popover content displayed here
Show popover

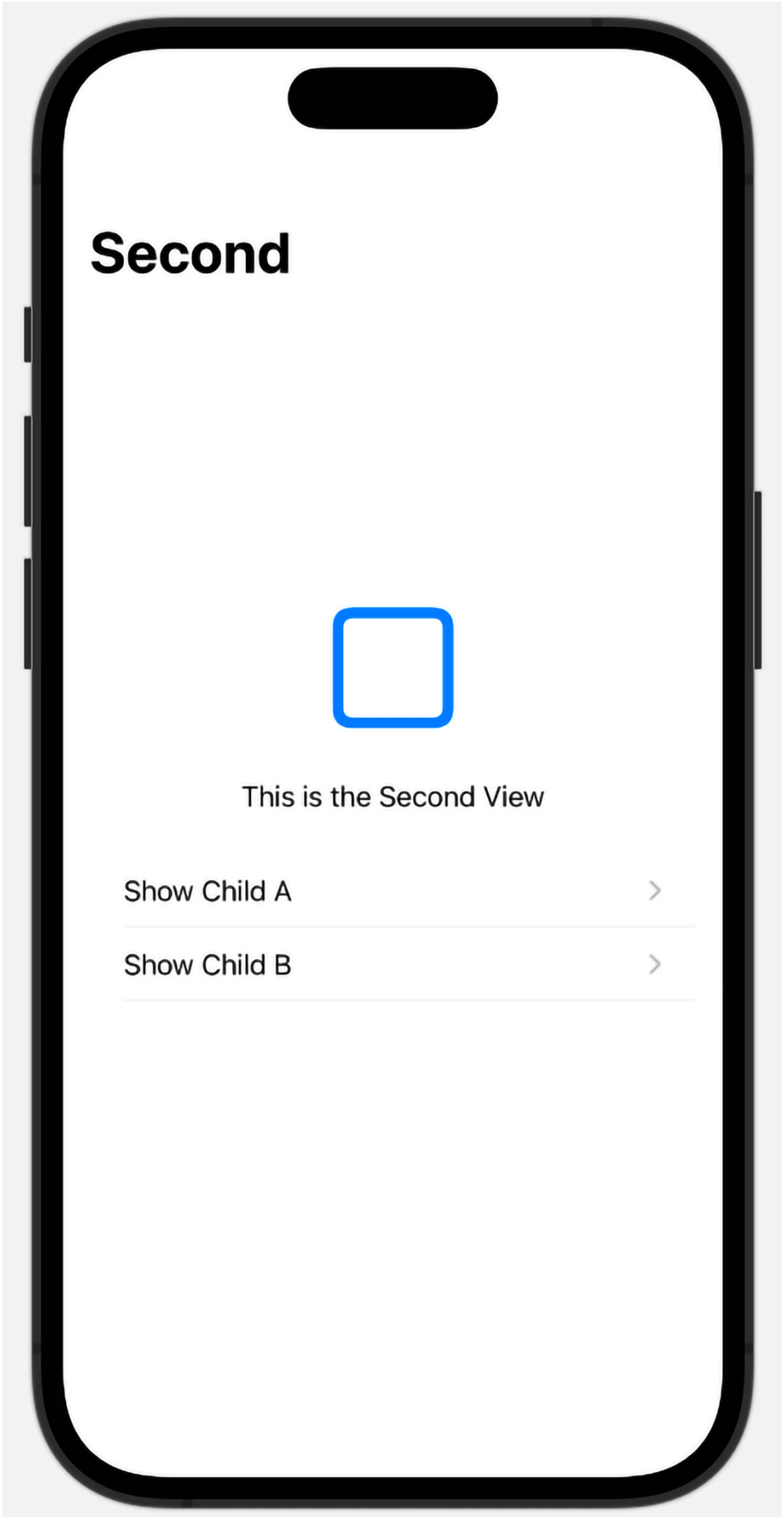

Yellow Bulb
Blue Bulb
Green Bulb

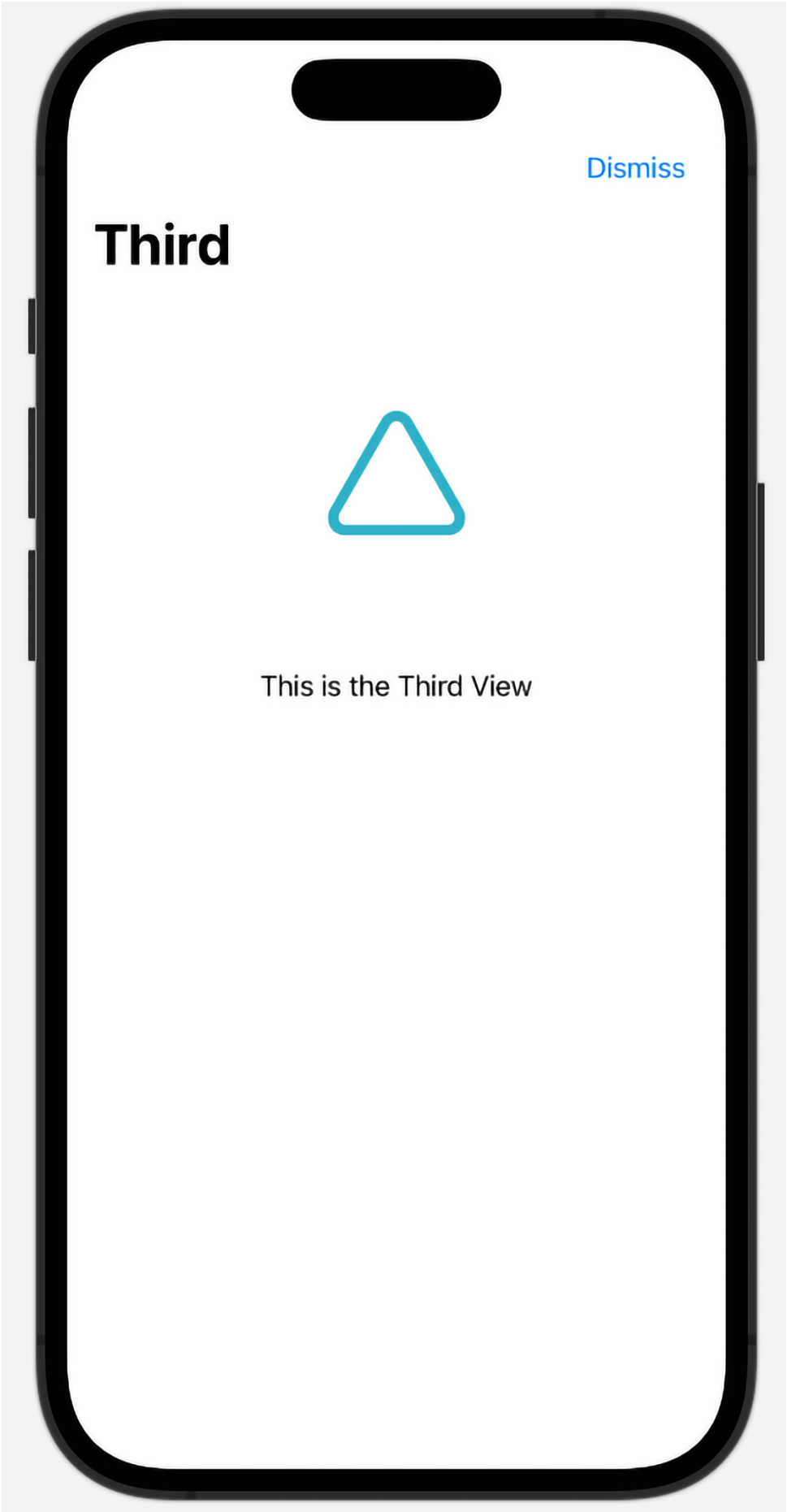
Chapter 7: Navigation Containers



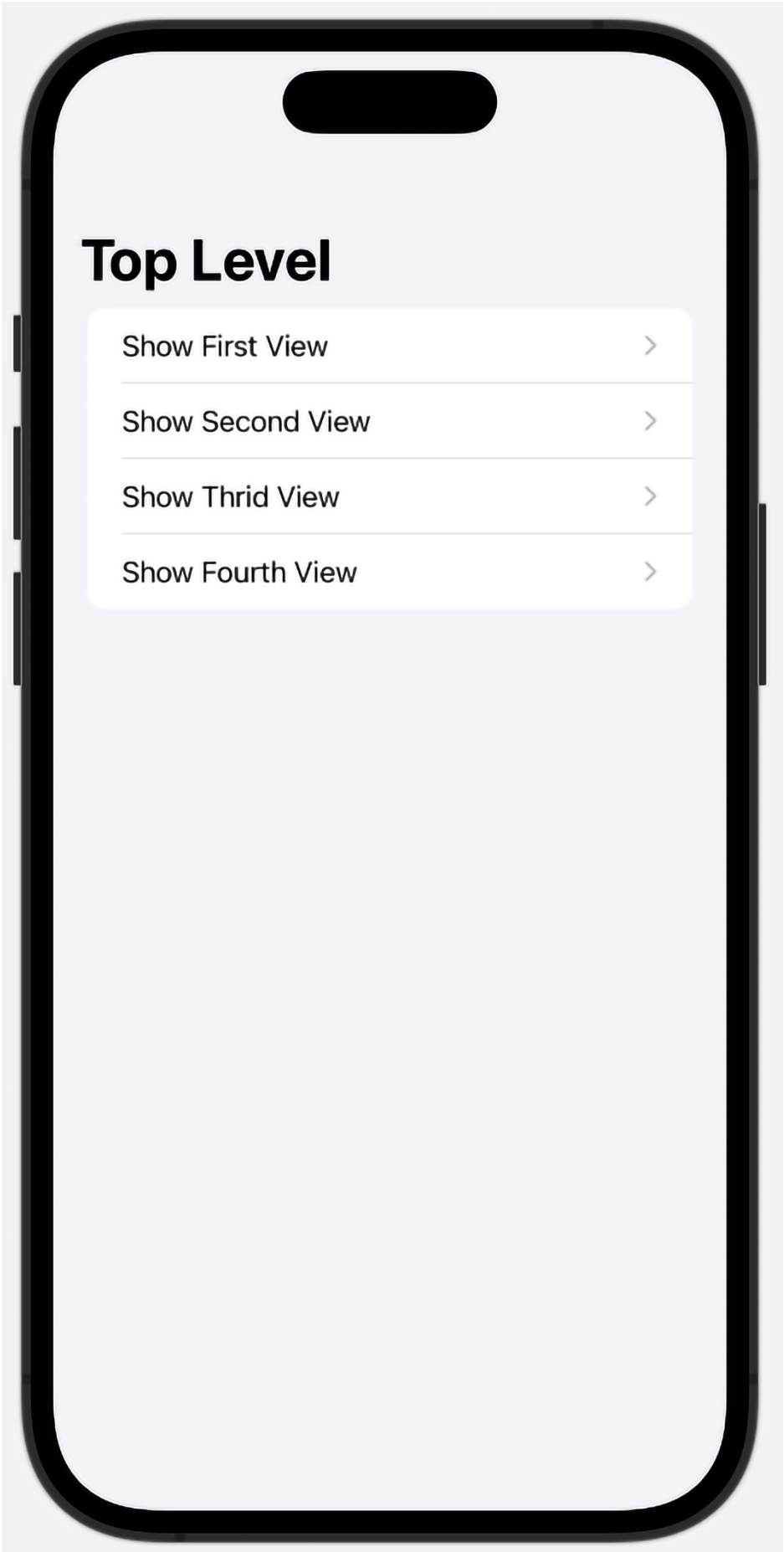

Child B
B
This is the Child B View

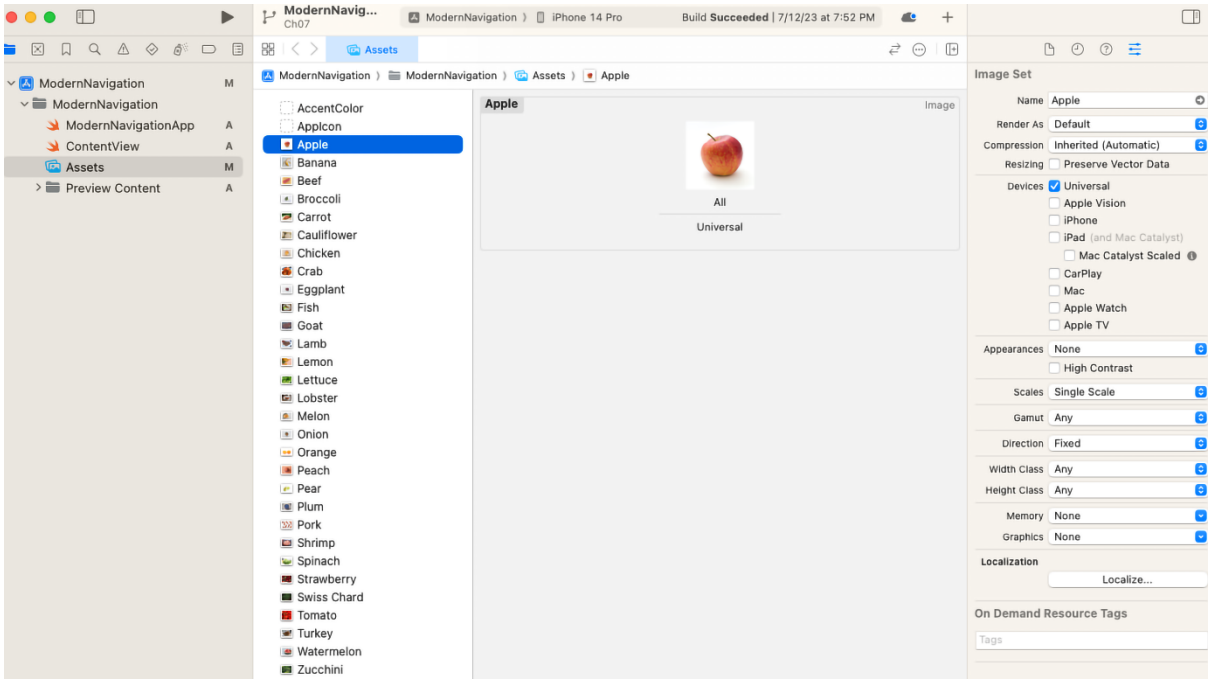

First
This is the First View
Show Child A
Show Child B

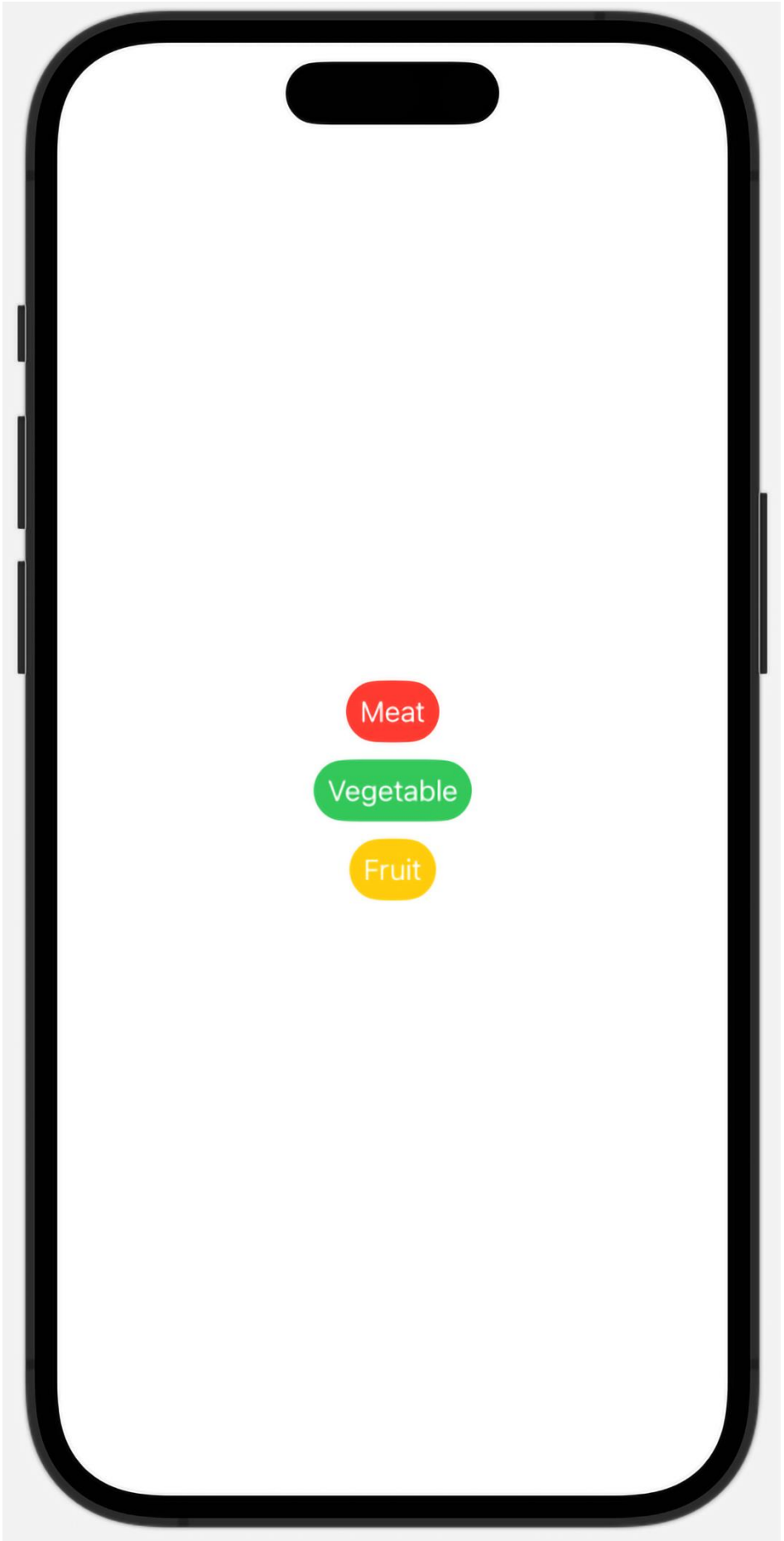

Second
This is the Second View
Show Child A
Show Child B

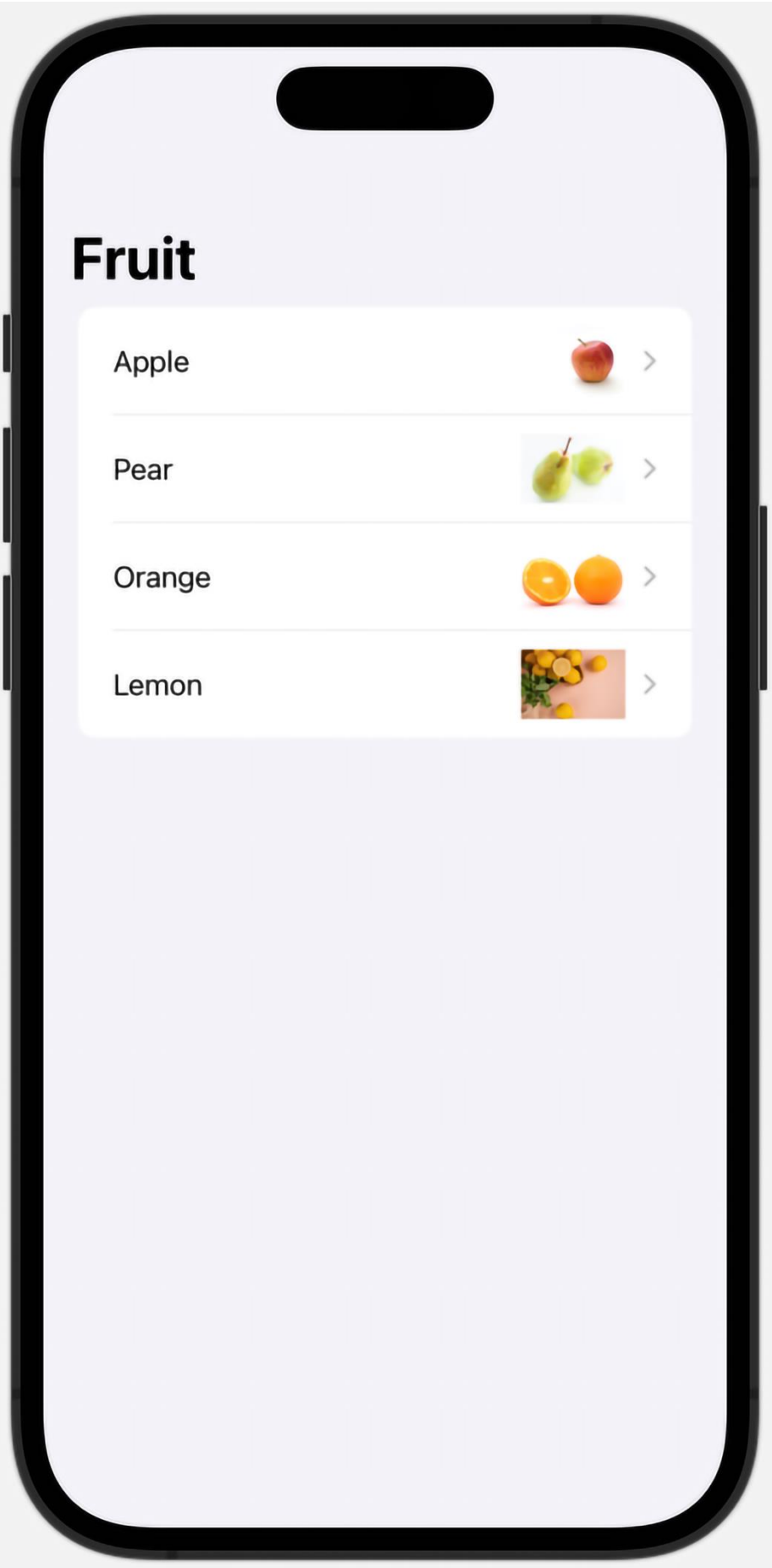

Dismiss
Third
This is the Third View

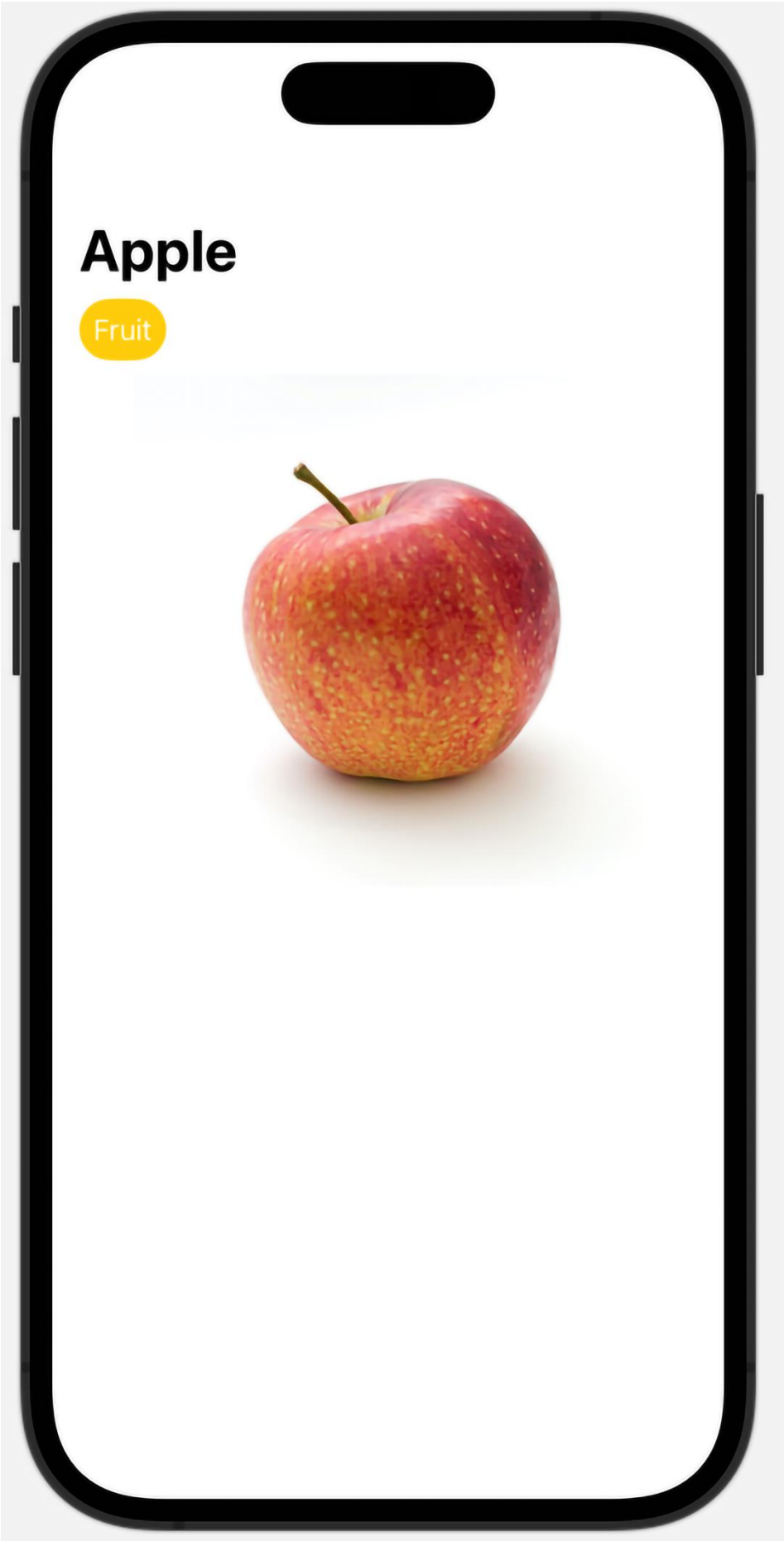

Fourth
This is the Fourth View
Show sheet

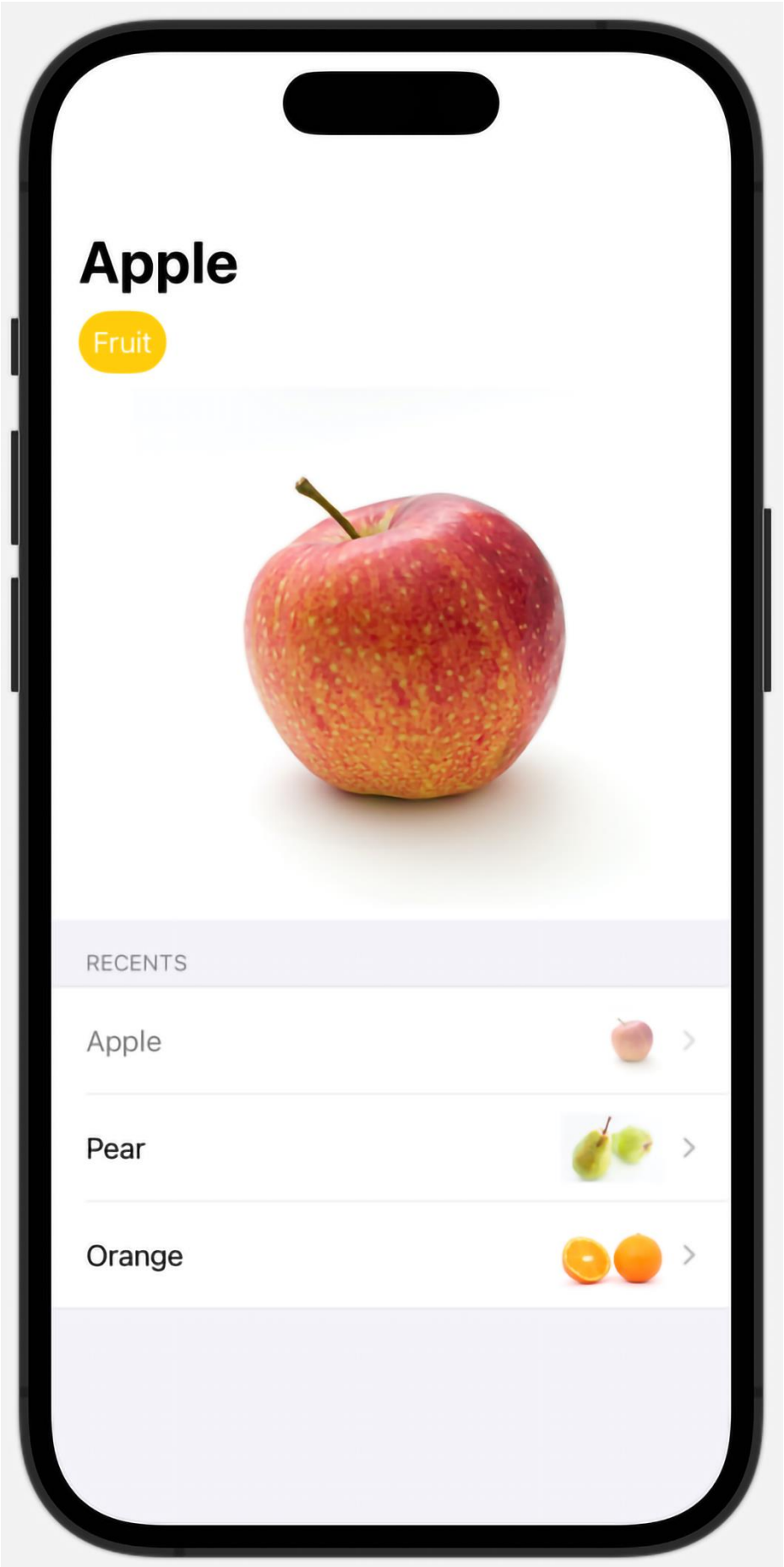

Top Level
Show First View
Show Second View
Show Thrid View
Show Fourth View

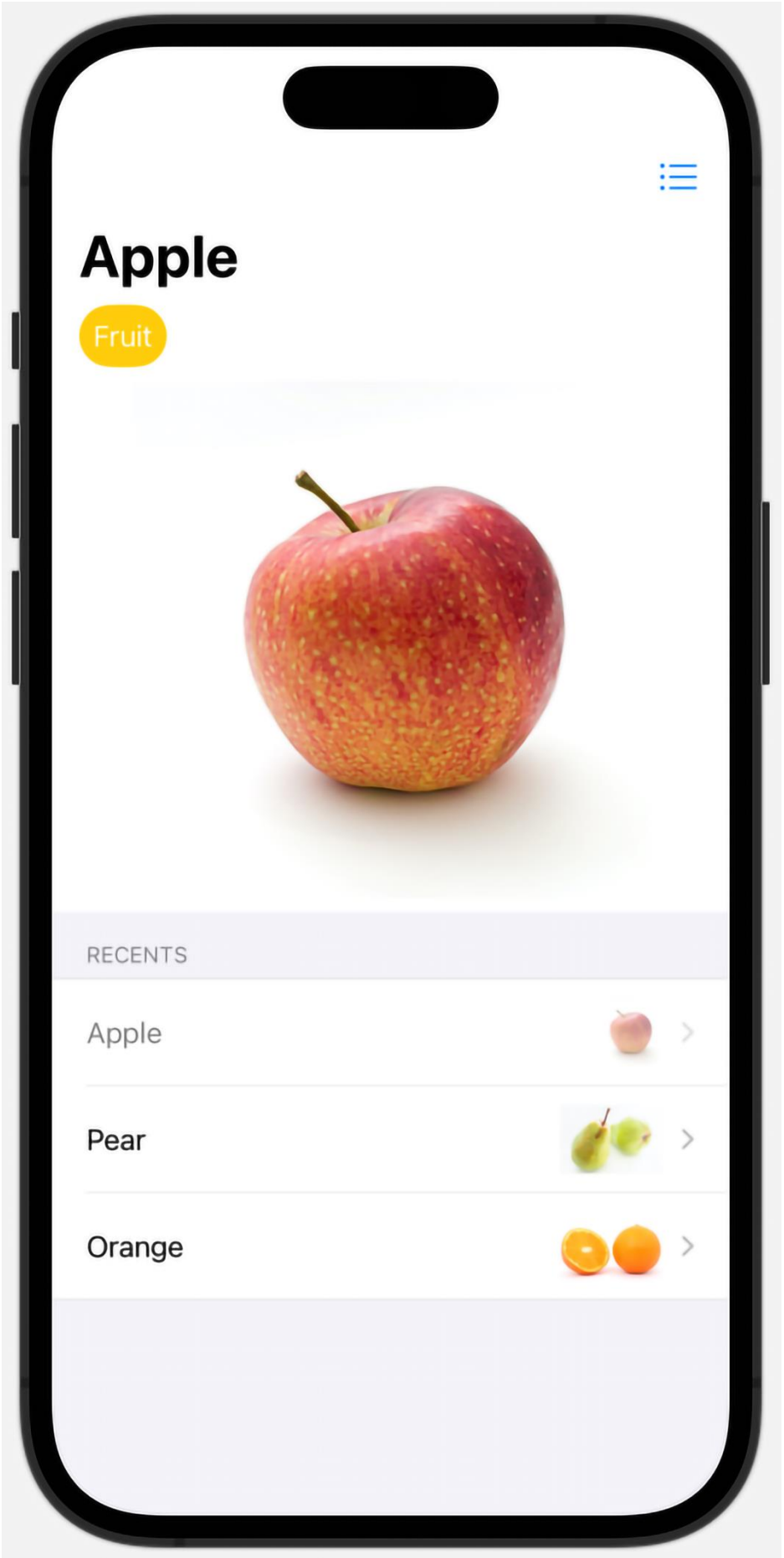

ModernNavig...
Ch07
ModernNavigation 〉 iPhone 14 Pro
Build Succeeded | 7/12/23 at 7:52 PM
ModernNavigation
ModernNavigation
ModernNavigationApp A
ContentView A
Assets M
Preview Content A
Assets
ModernNavigation 〉 ModernNavigation 〉 Assets 〉 Apple
AccentColor
AppIcon
Apple
Banana
Beef
Broccoli
Carrot
Cauliflower
Chicken
Crab
Eggplant
Fish
Goat
Lamb
Lemon
Lettuce
Lobster
Melon
Onion
Orange
Peach
Pear
Plum
Pork
Shrimp
Spinach
Strawberry
Swiss Chard
Tomato
Turkey
Watermelon
Zucchini
Apple
Image
All
Universal
Image Set
Name Apple
Render As Default
Compression Inherited (Automatic)
Resizing Preserve Vector Data
Devices Universal
Apple Vision
iPhone
iPad (and Mac Catalyst)
Mac Catalyst Scaled
CarPlay
Mac
Apple Watch
Apple TV
Appearances None
High Contrast
Scales Single Scale
Gamut Any
Direction Fixed
Width Class Any
Height Class Any
Memory None
Graphics None
Localization
Localize...
On Demand Resource Tags
Tags


Meat
Vegetable
Fruit


Fruit
Apple
Pear
Orange
Lemon


Apple
Fruit


Apple
Fruit
RECENTS
Apple
Pear
Orange

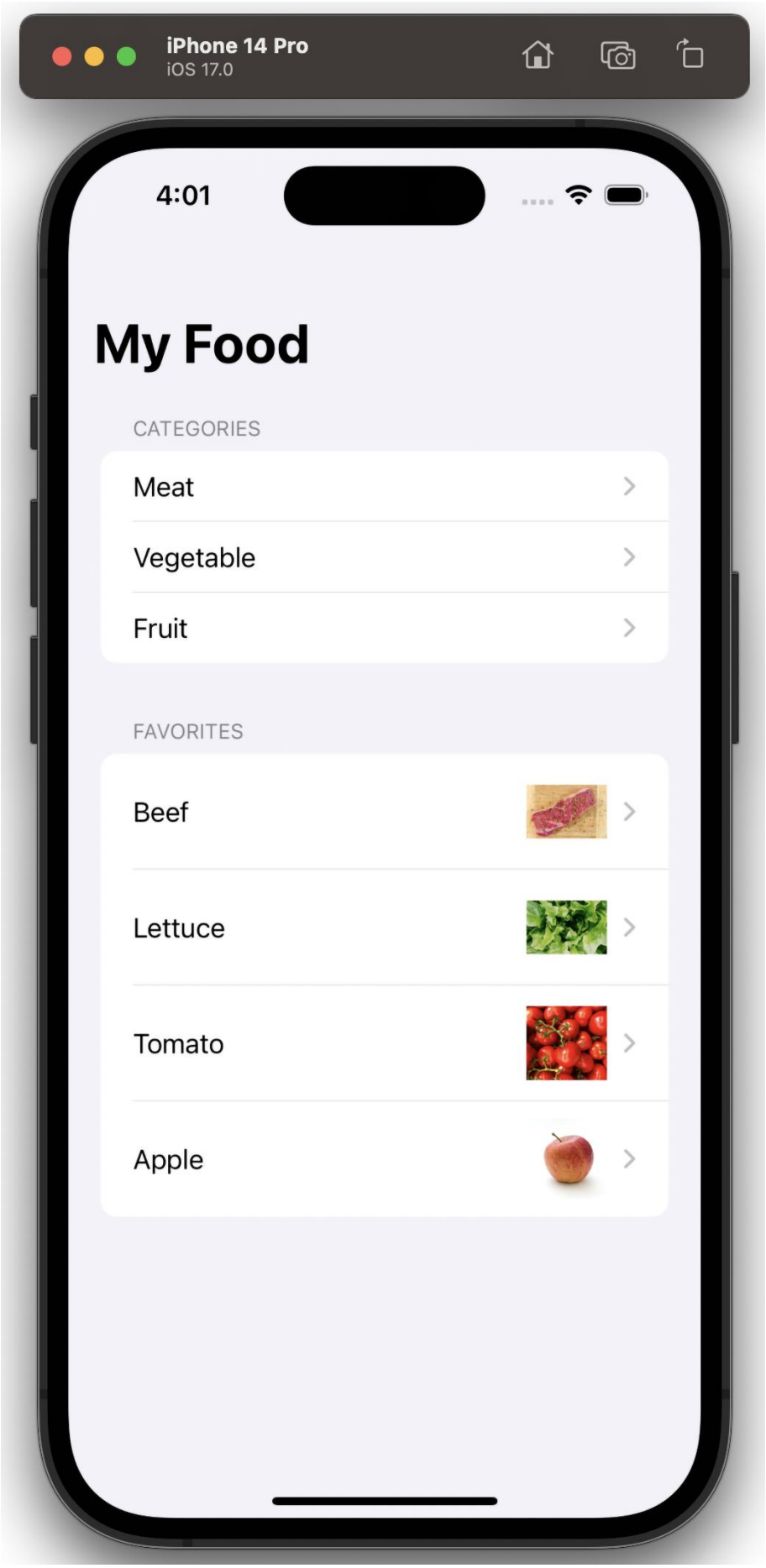

Apple
Fruit
RECENTS
Apple
Pear
Orange

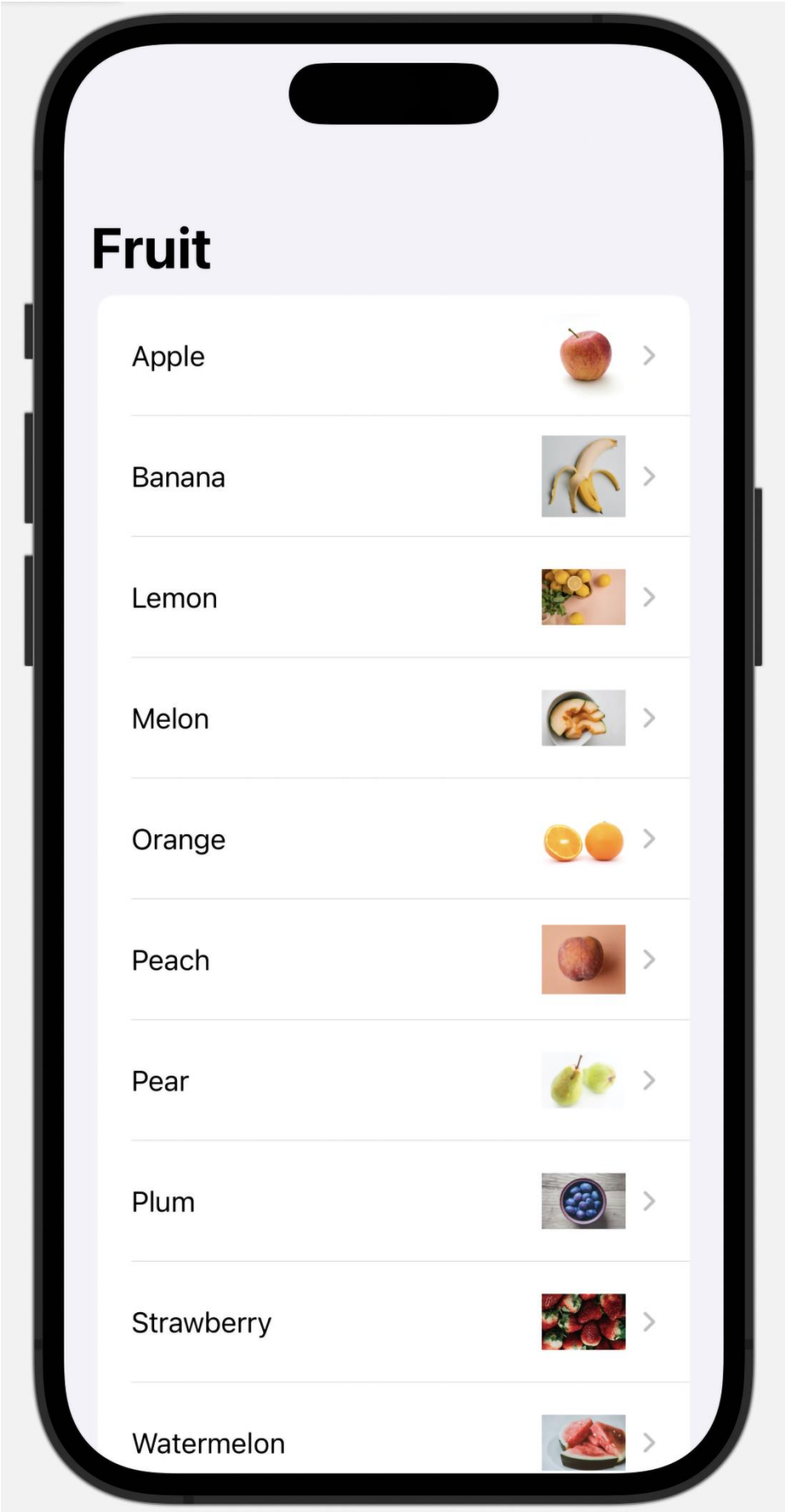
My Food

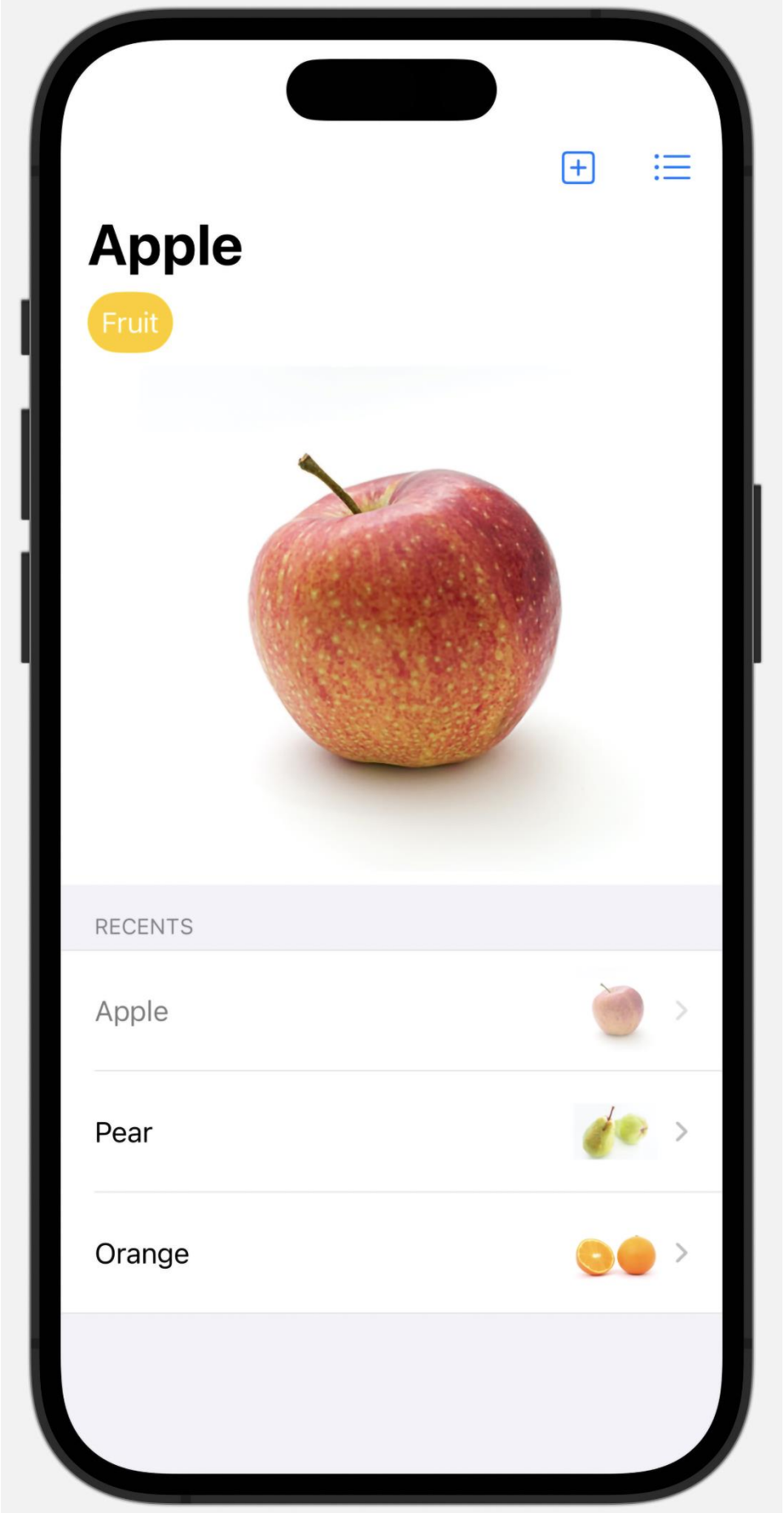
MEAT

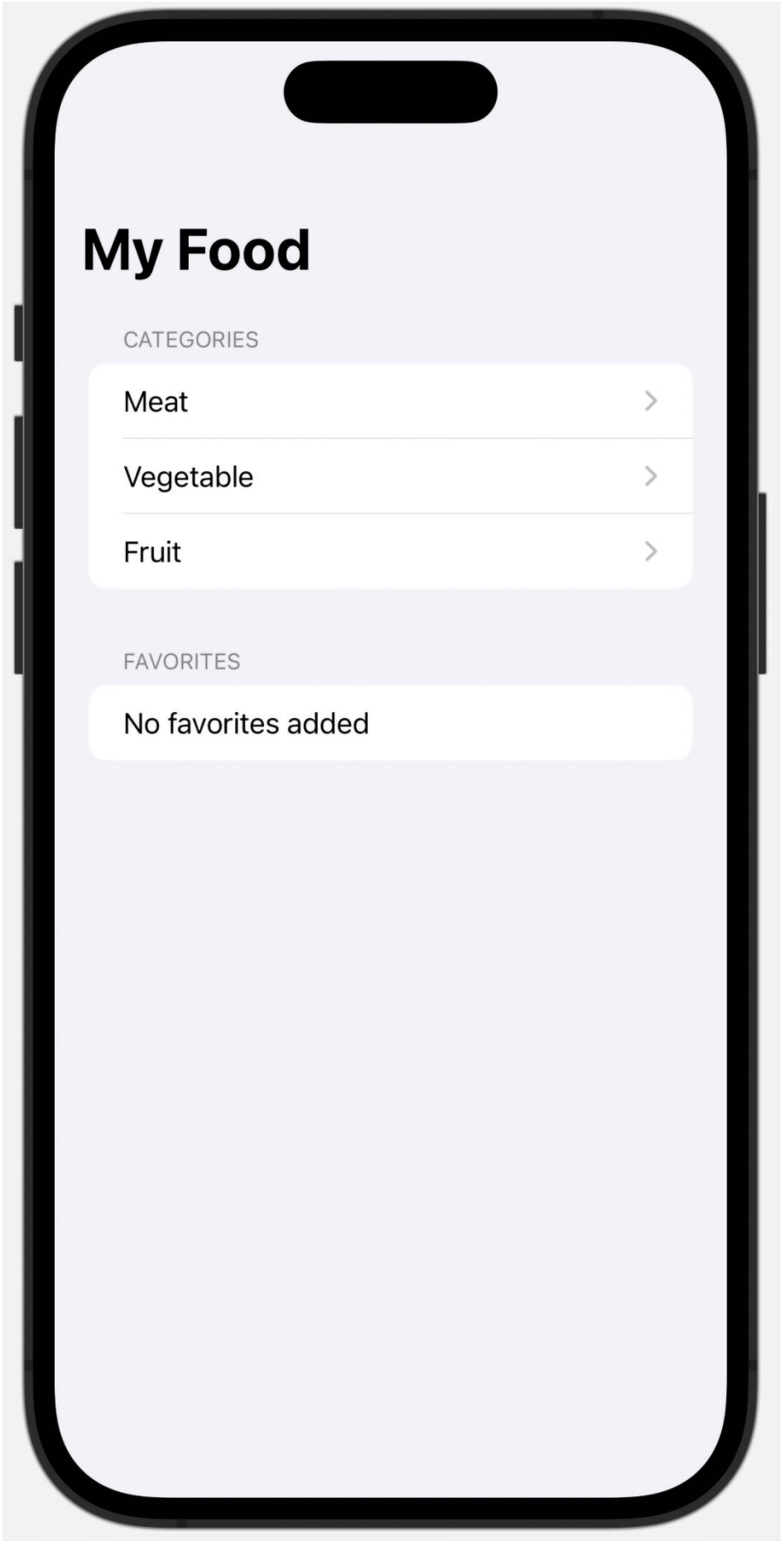
- Beef 
- Chicken 
- Crab 
- Fish 
- Goat 
- Lamb 
- Lobster 
- Pork 
- Shrimp 
- Turkey 

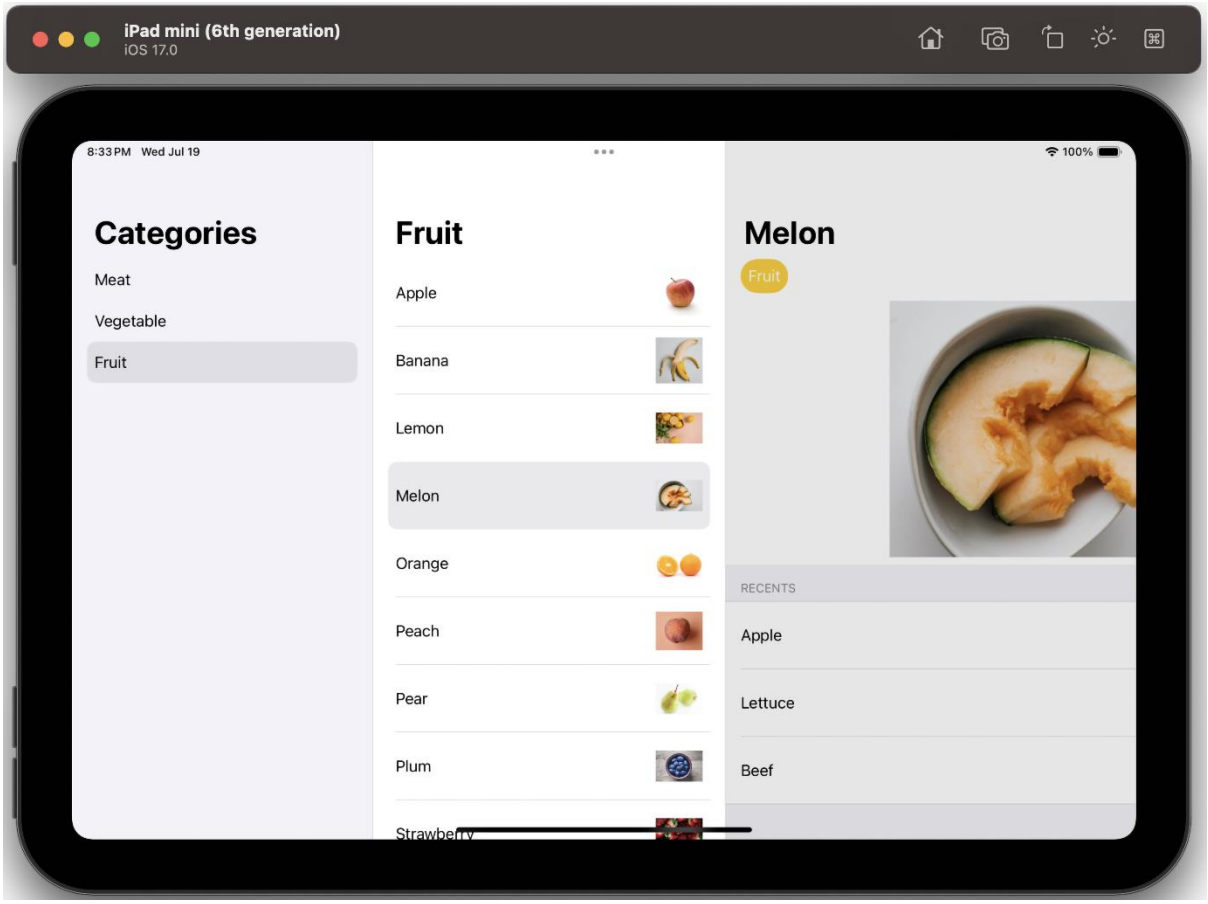
VEGETABLE

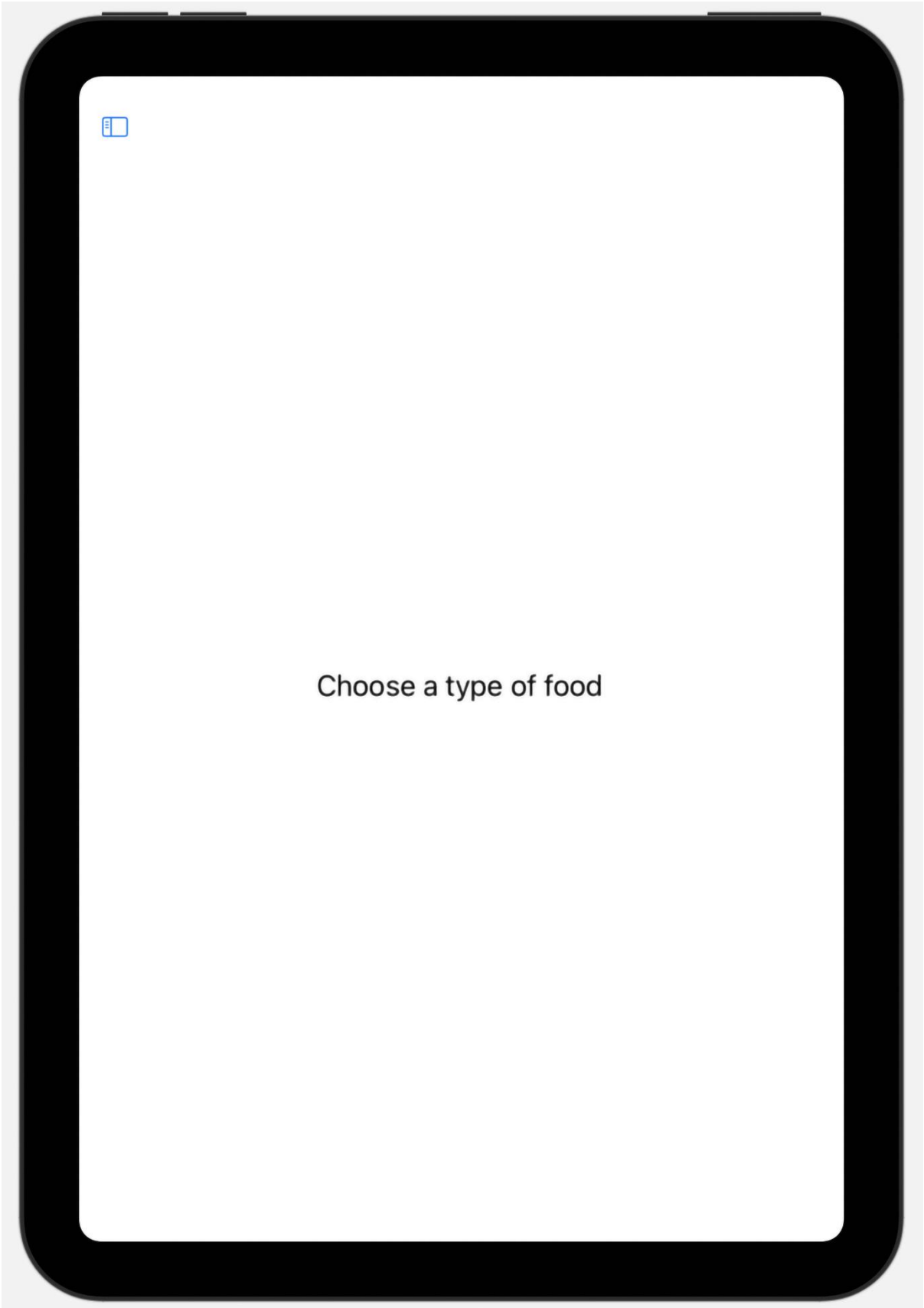

iPhone 14 Pro
iOS 17.0
4:01
My Food
CATEGORIES
Meat
Vegetable
Fruit
FAVORITES
Beef
Lettuce
Tomato
Apple

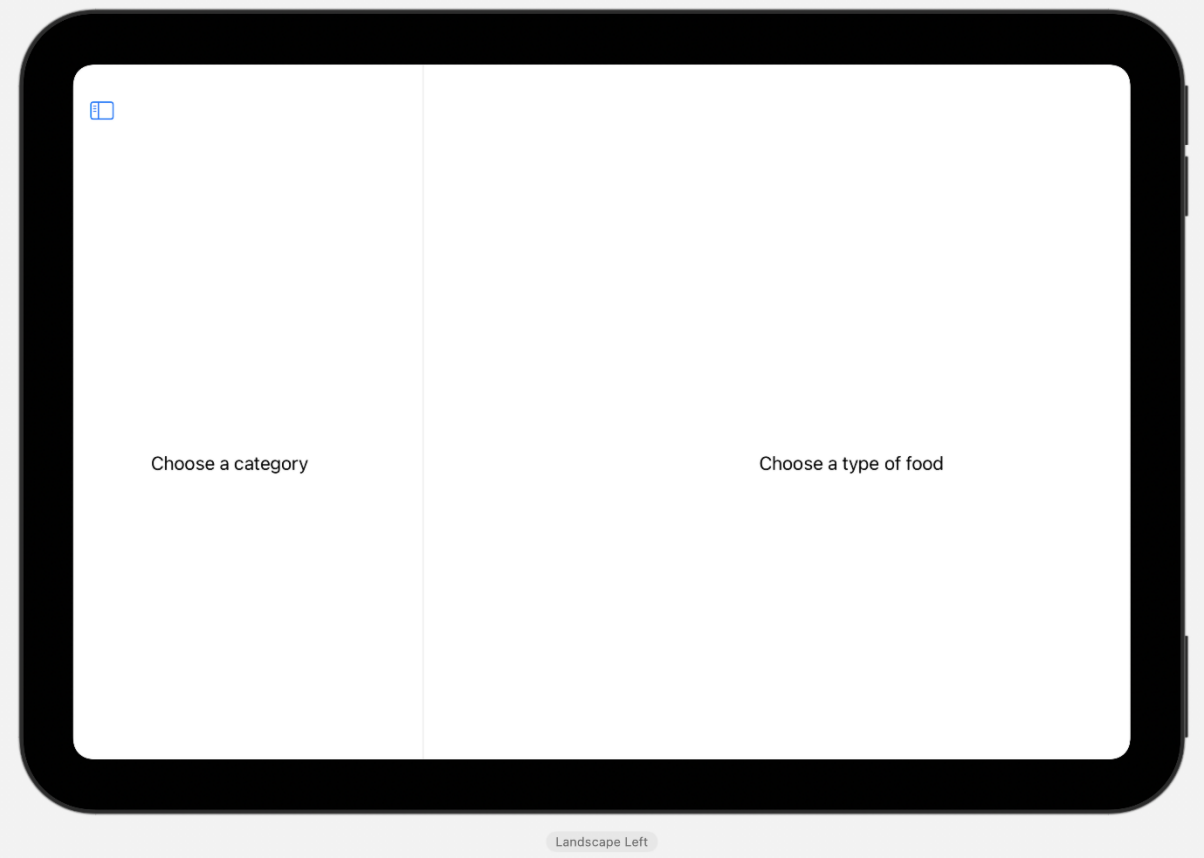

Fruit
Apple
Banana
Lemon
Melon
Orange
Peach
Pear
Plum
Strawberry
Watermelon

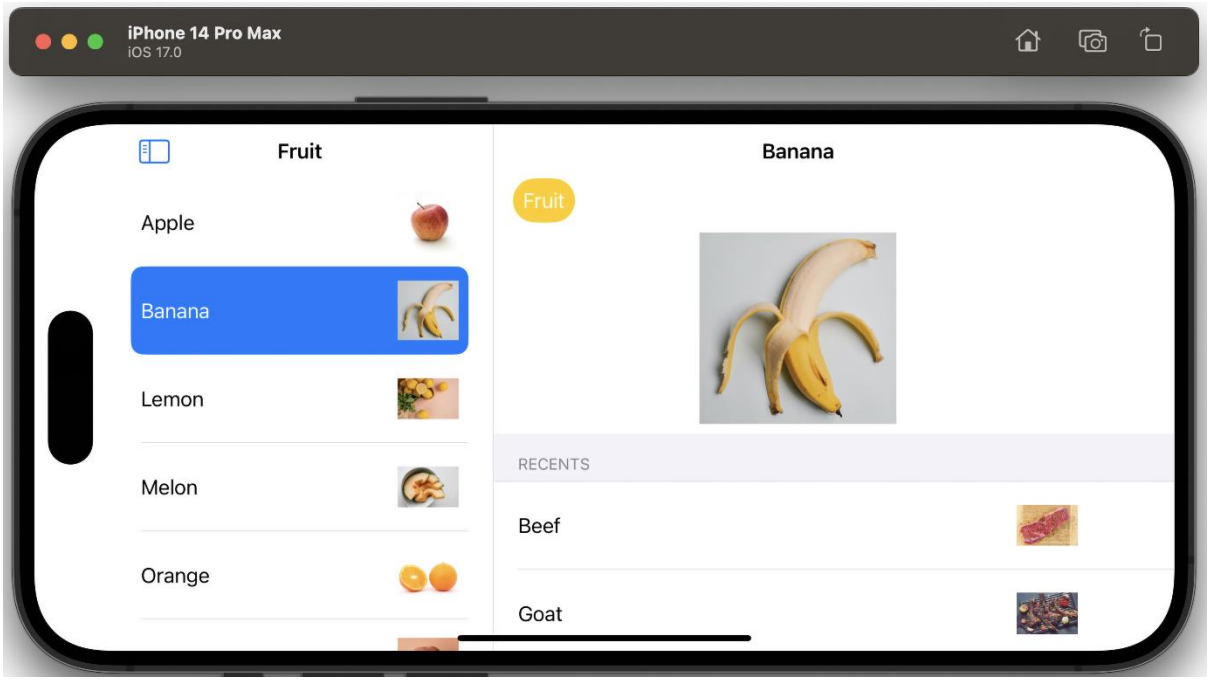

Apple
Fruit
RECENTS
Apple
Pear
Orange

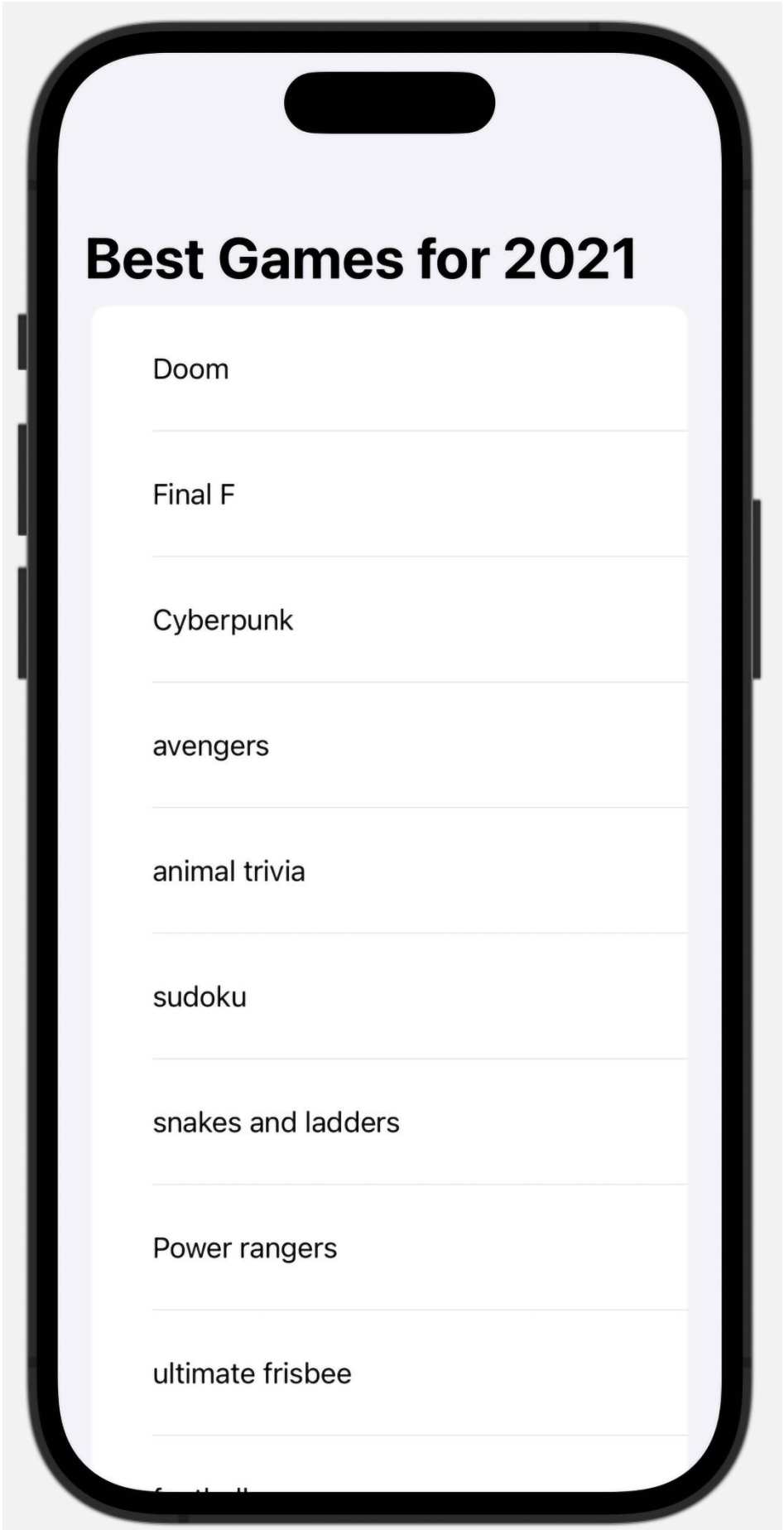

My Food
CATEGORIES
Meat
Vegetable
Fruit
FAVORITES
No favorites added

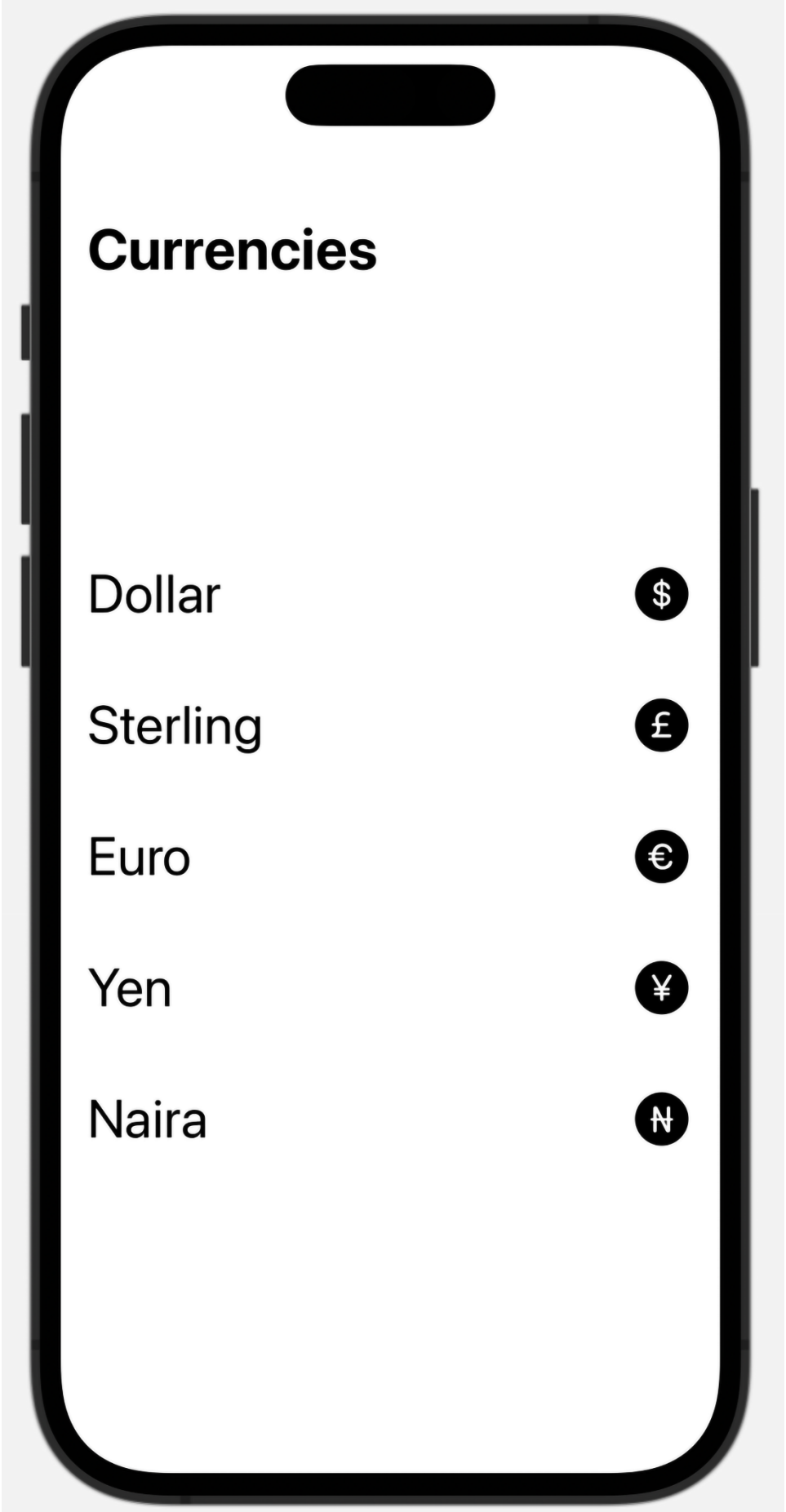

iPad mini (6th generation)
iOS 17.0
8:33 PM Wed Jul 19
100%
Categories
Meat
Vegetable
Fruit
Fruit
Apple
Banana
Lemon
Melon
Orange
Peach
Pear
Plum
Strawberry
Melon
Fruit
RECENTS
Apple
Lettuce
Beef

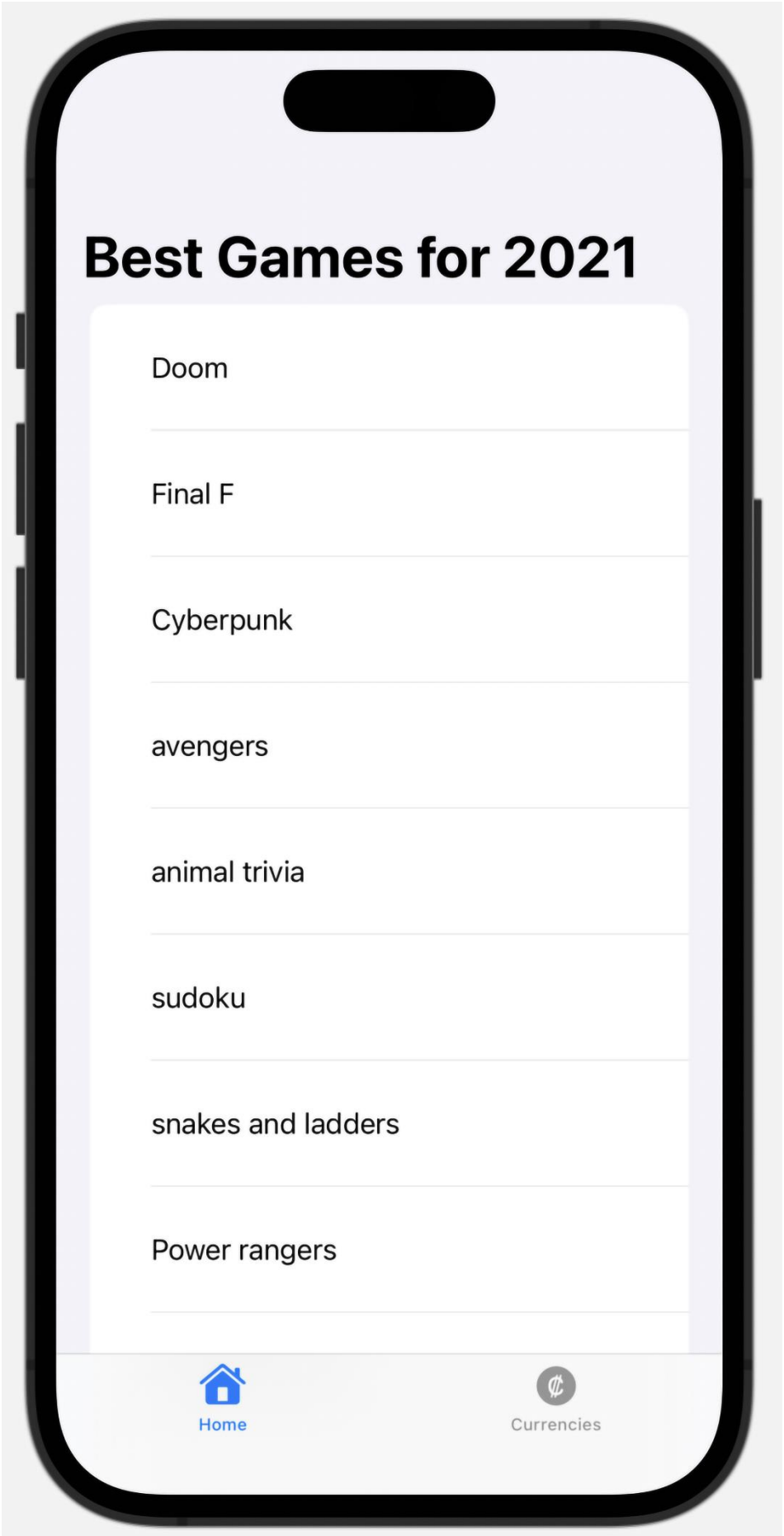

Choose a type of food


Choose a category
Choose a type of food
Landscape Left


iPhone 14 Pro Max
iOS 17.0
Fruit
Apple
Banana
Lemon
Melon
Orange
Banana
Fruit
RECENTS
Beef
Goat


Best Games for 2021
Doom
Final F
Cyberpunk
avengers
animal trivia
sudoku
snakes and ladders
Power rangers
ultimate frisbee

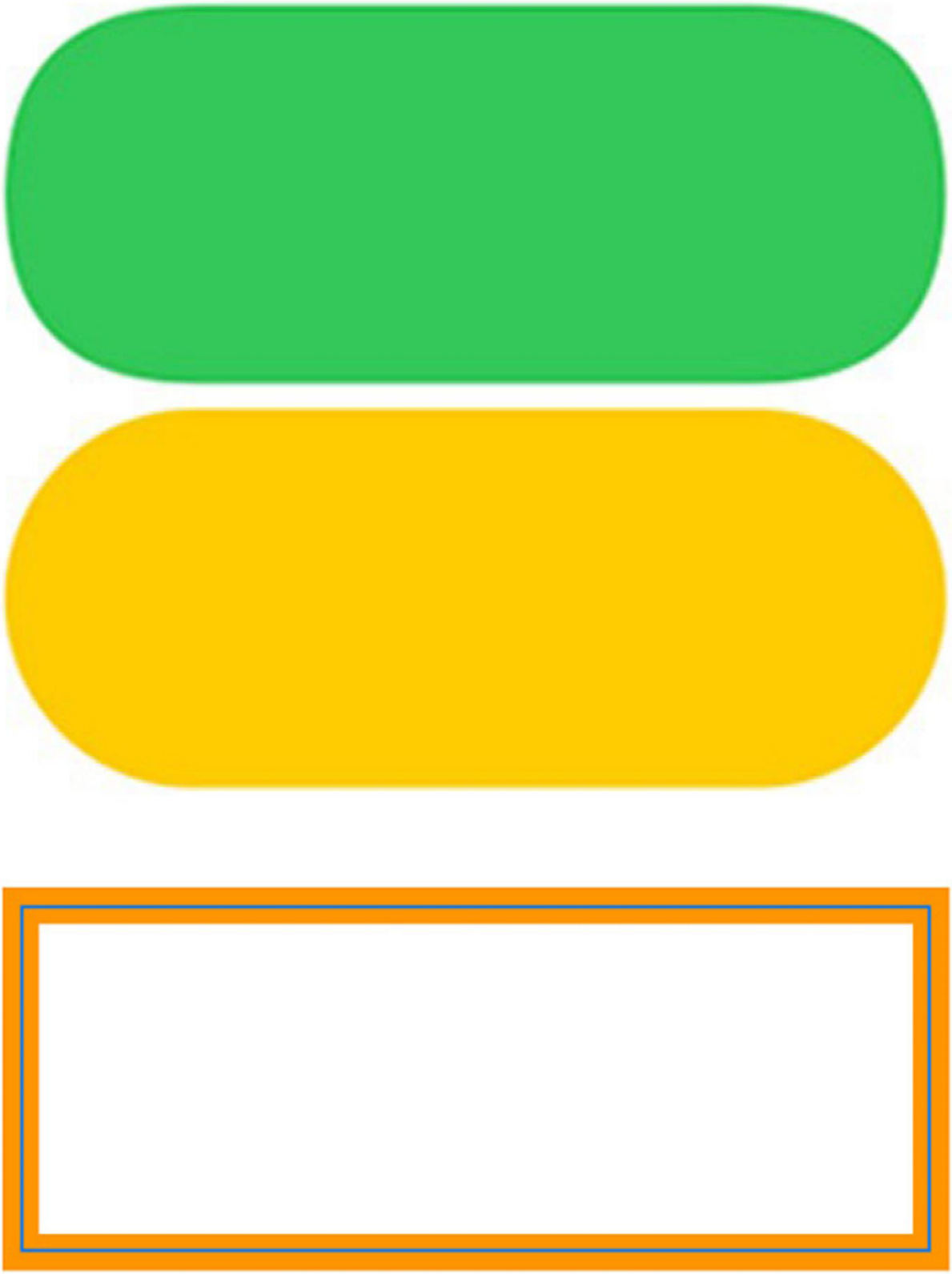

Currencies
Dollar
$
Sterling
£
Euro
€
Yen
¥
Naira
₦

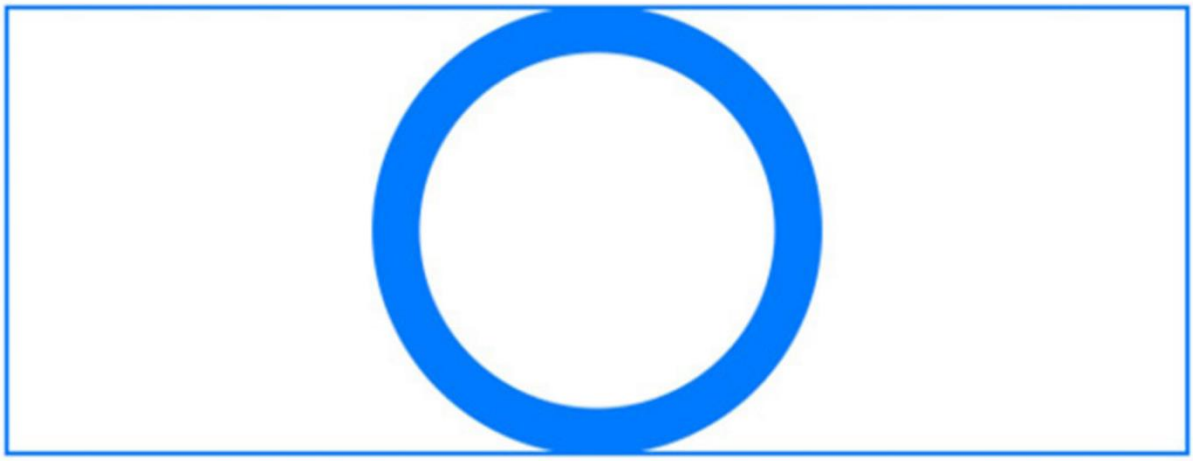

Best Games for 2021
Doom
Final F
Cyberpunk
avengers
animal trivia
sudoku
snakes and ladders
Power rangers
Home
Currencies

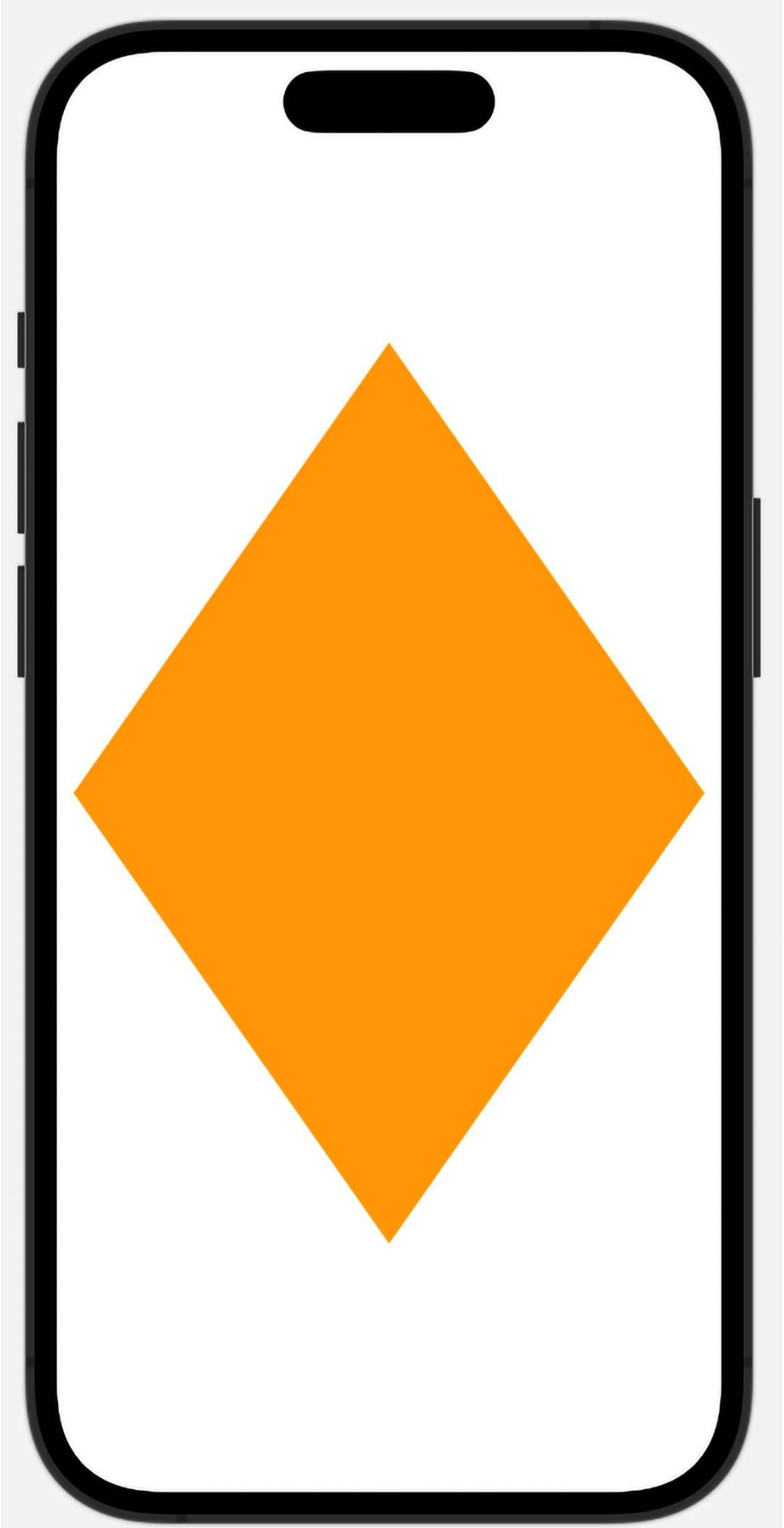

Left Tab. Tap to switch to right
L
Left
R
Right

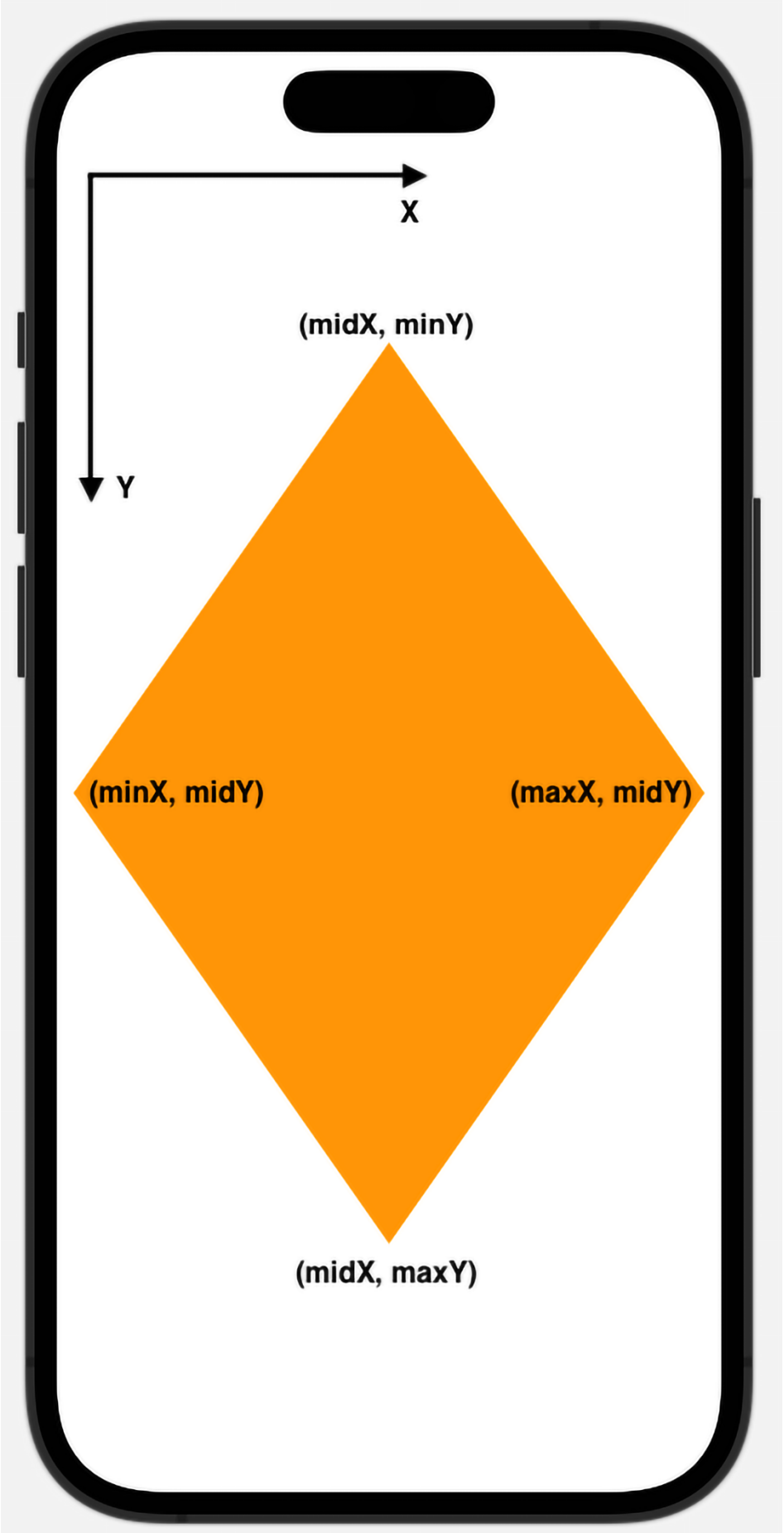
Chapter 8: Drawing with SwiftUI

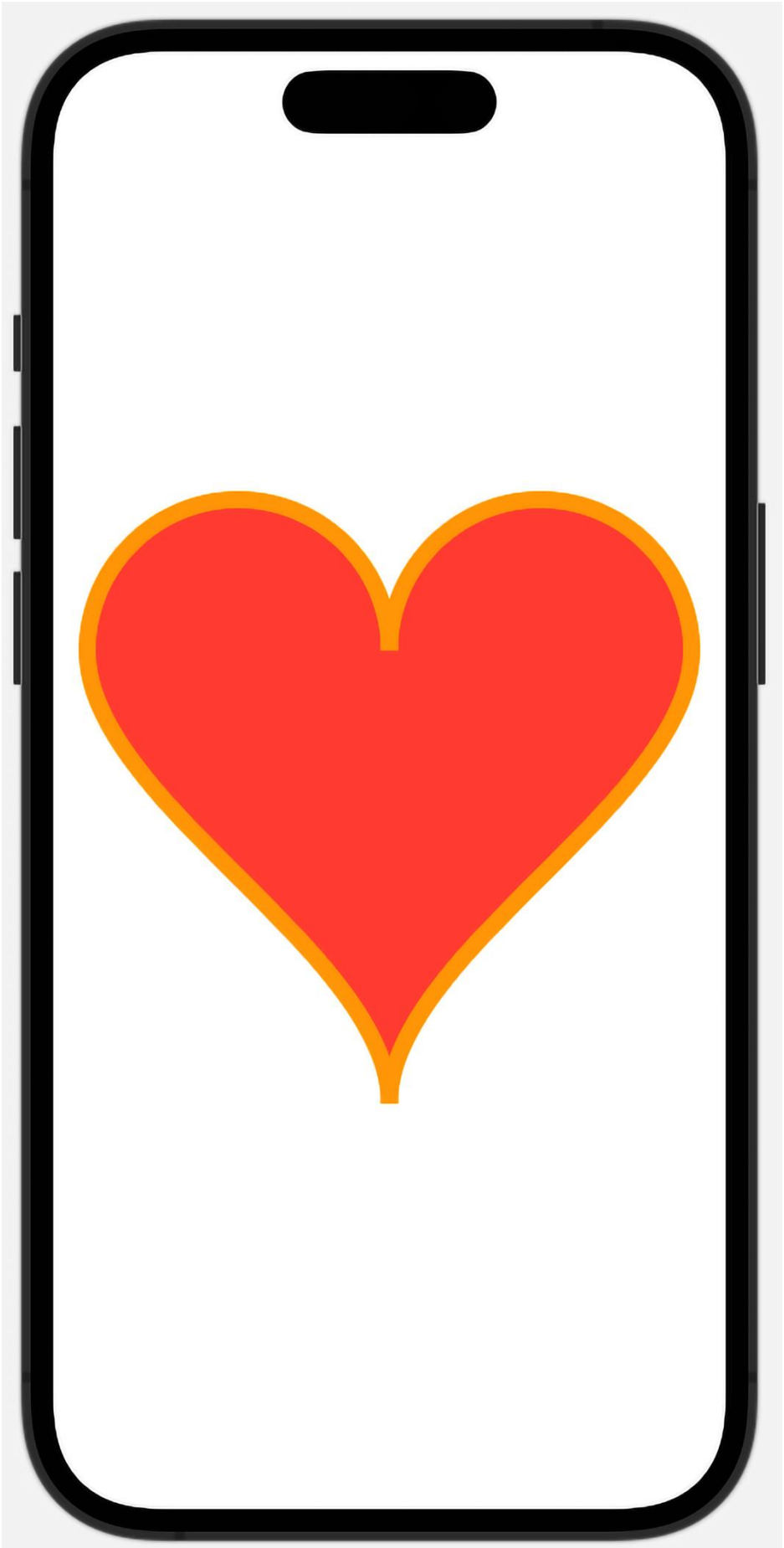




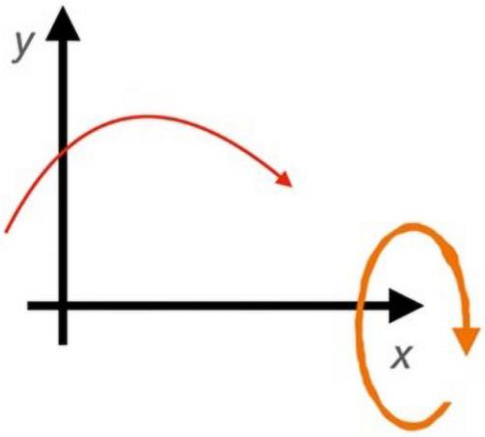




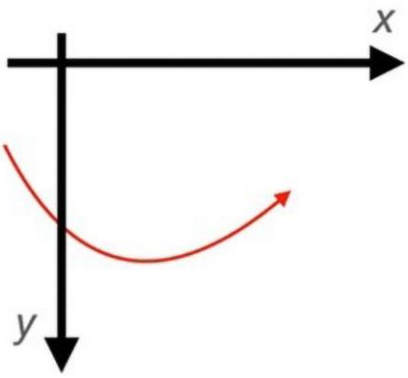

X
Y
(midX, minY)
(minX, midY)
(maxX, midY)
(midX, maxY)



Geometric coordinates system

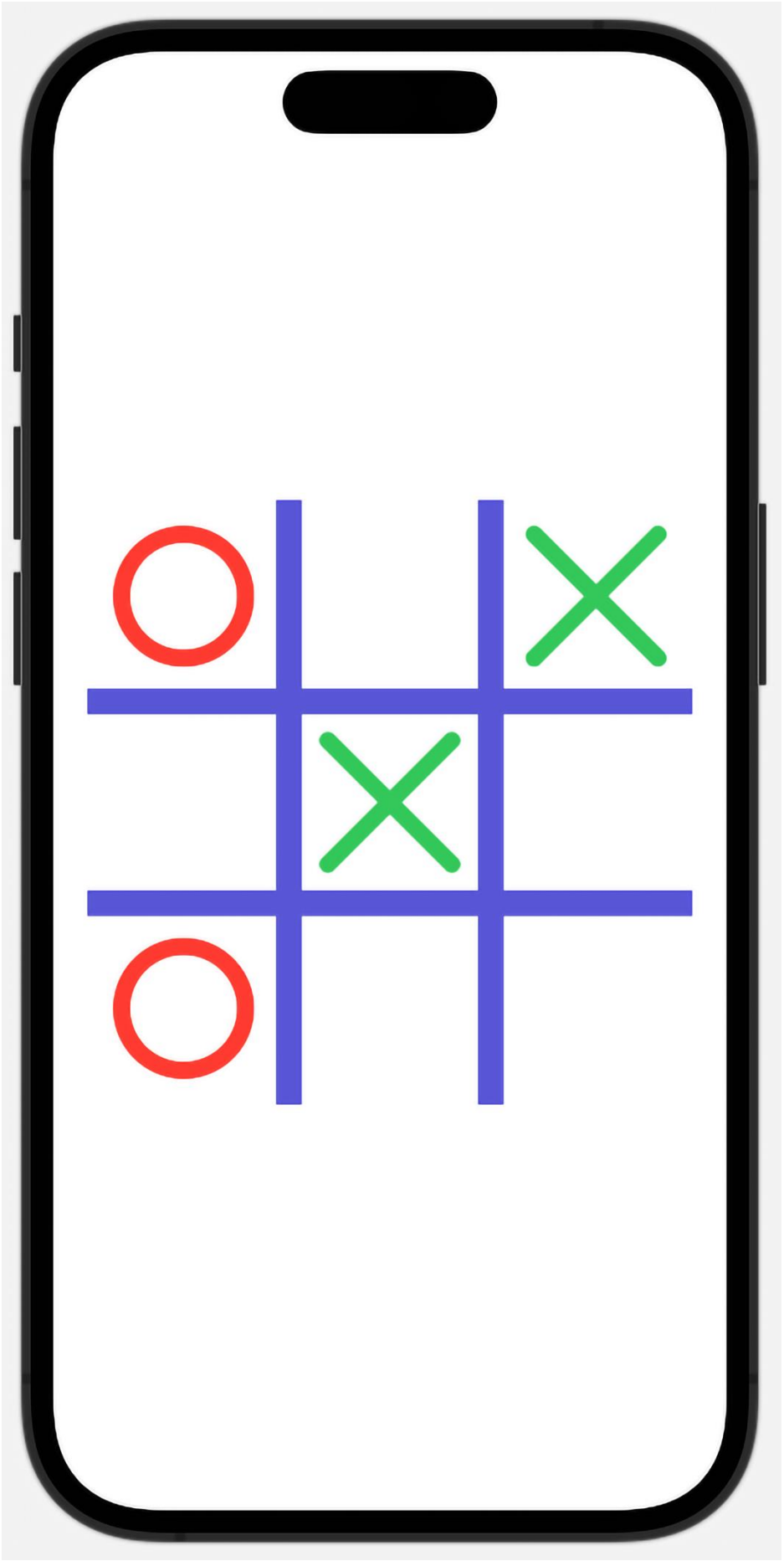


Flipped coordinates system



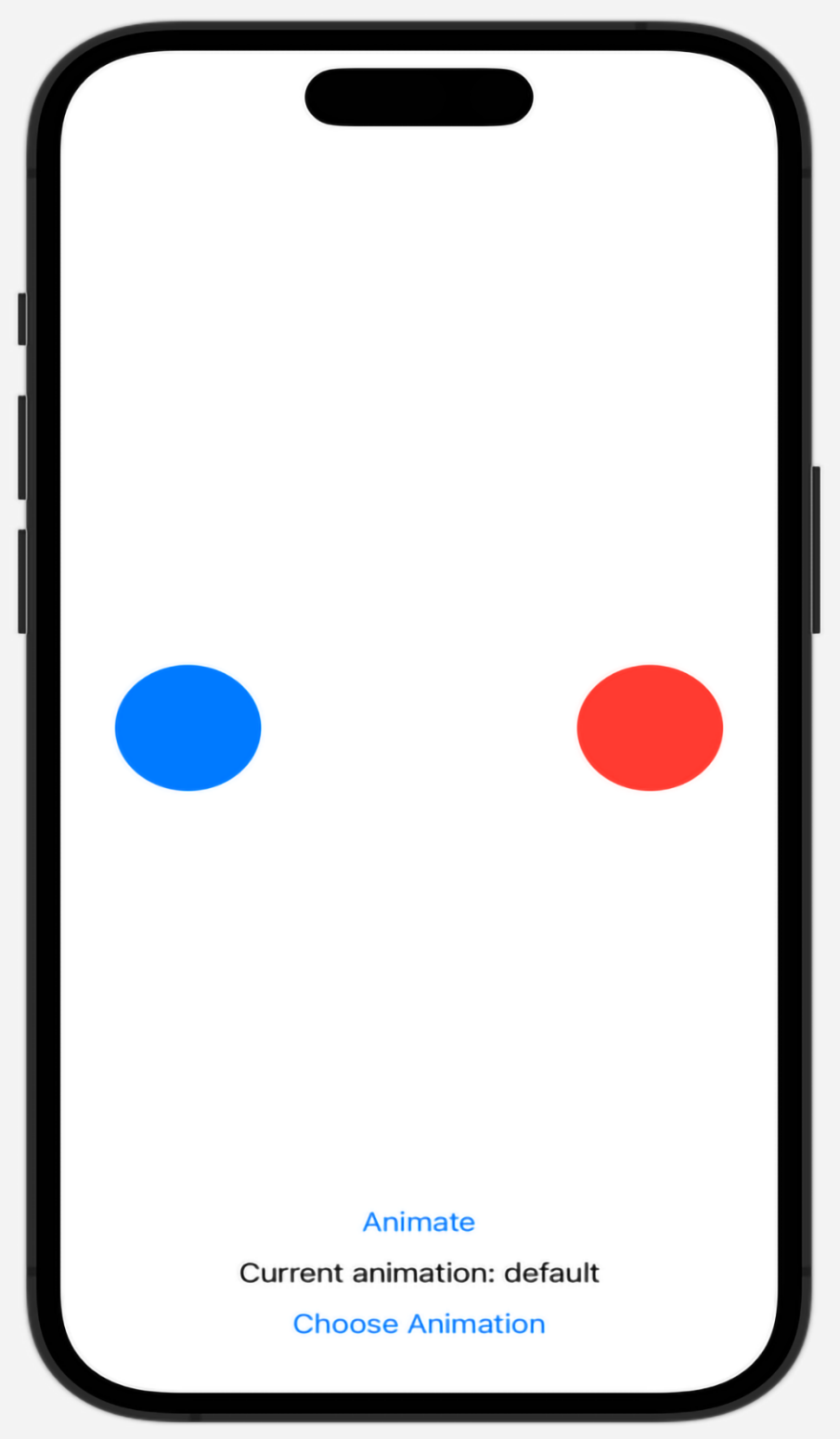


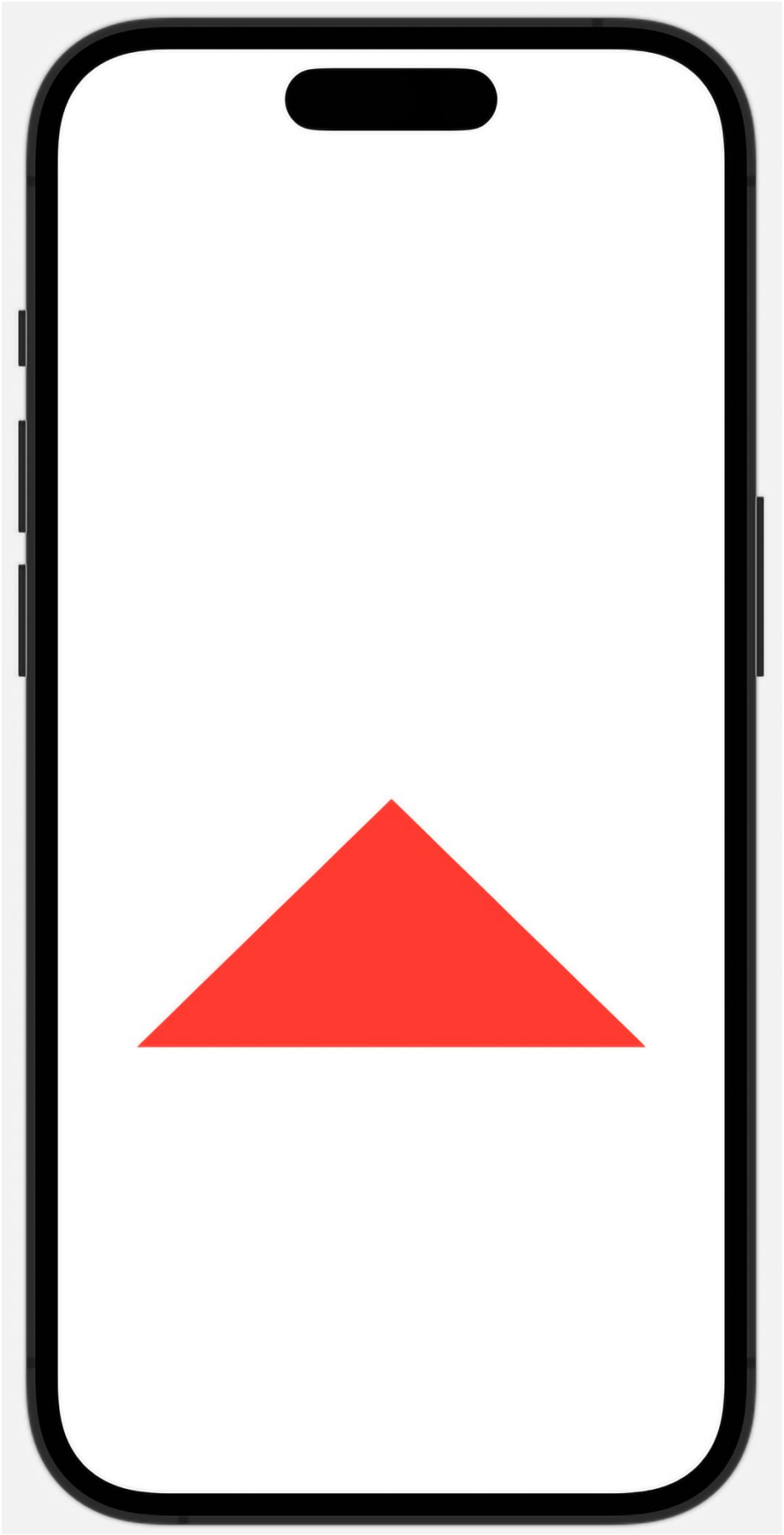




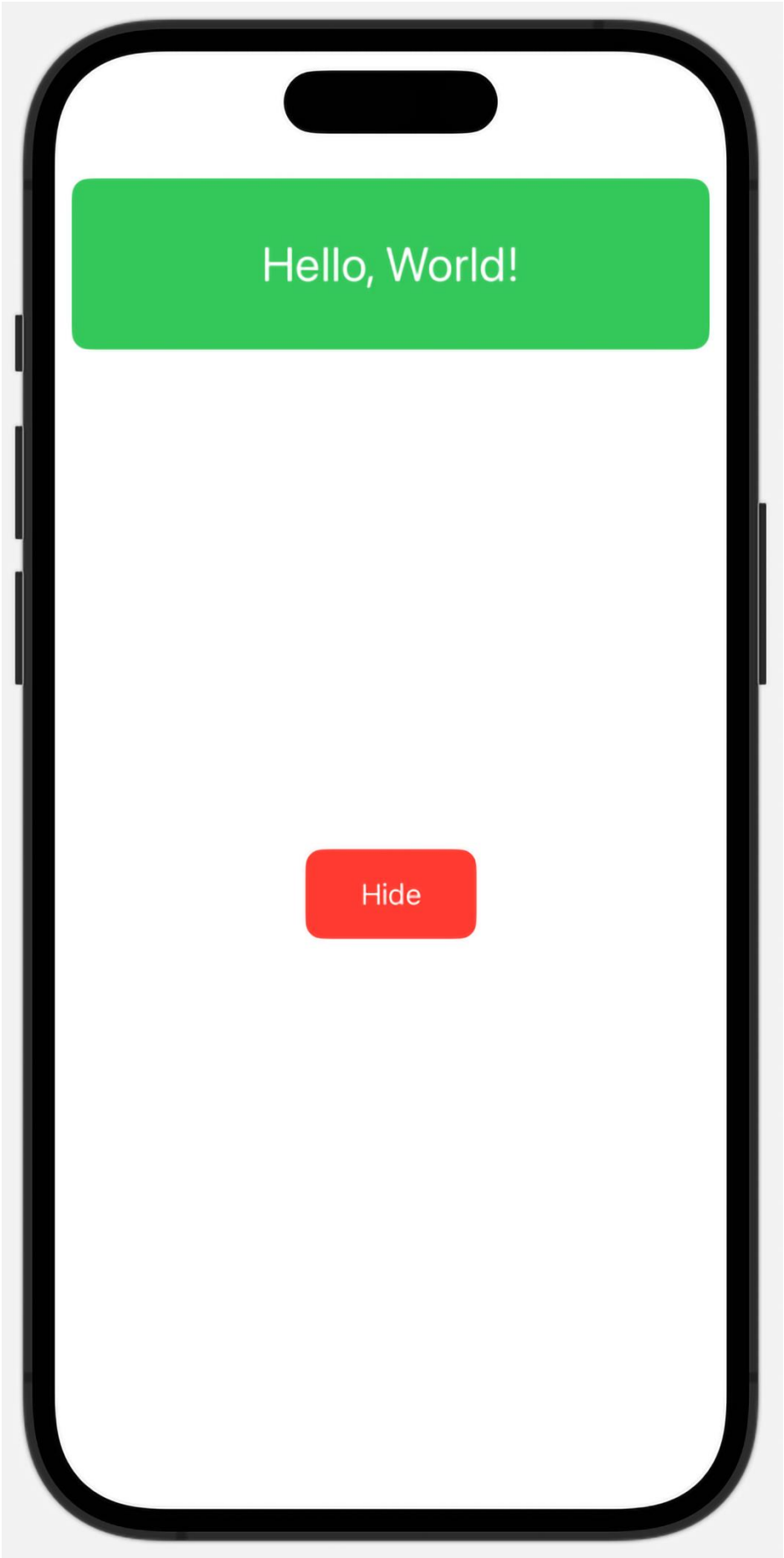

Linear
Radial
Elliptical
Angular
Elliptical
Gradient

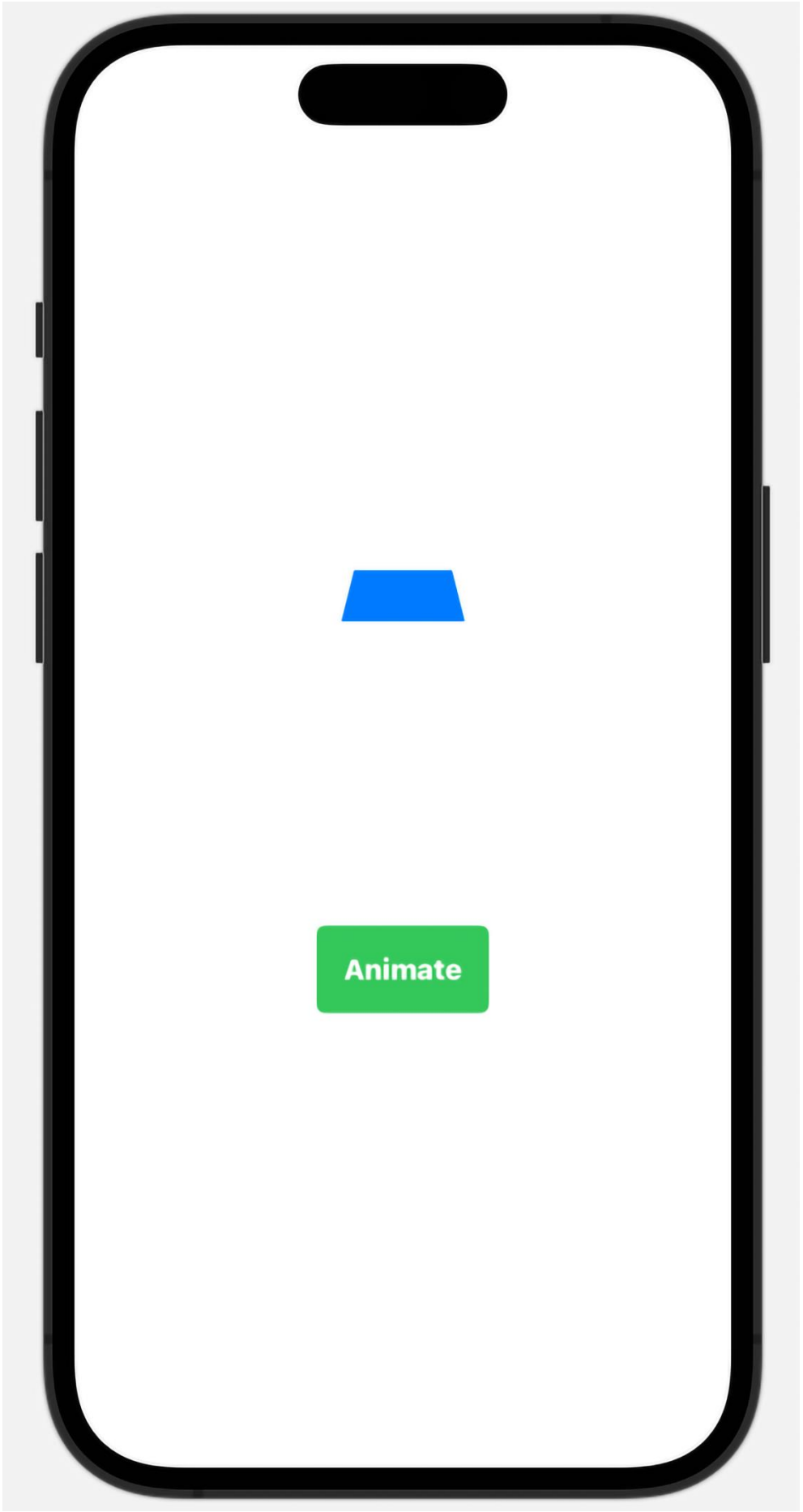
Chapter 9: Animating with SwiftUI

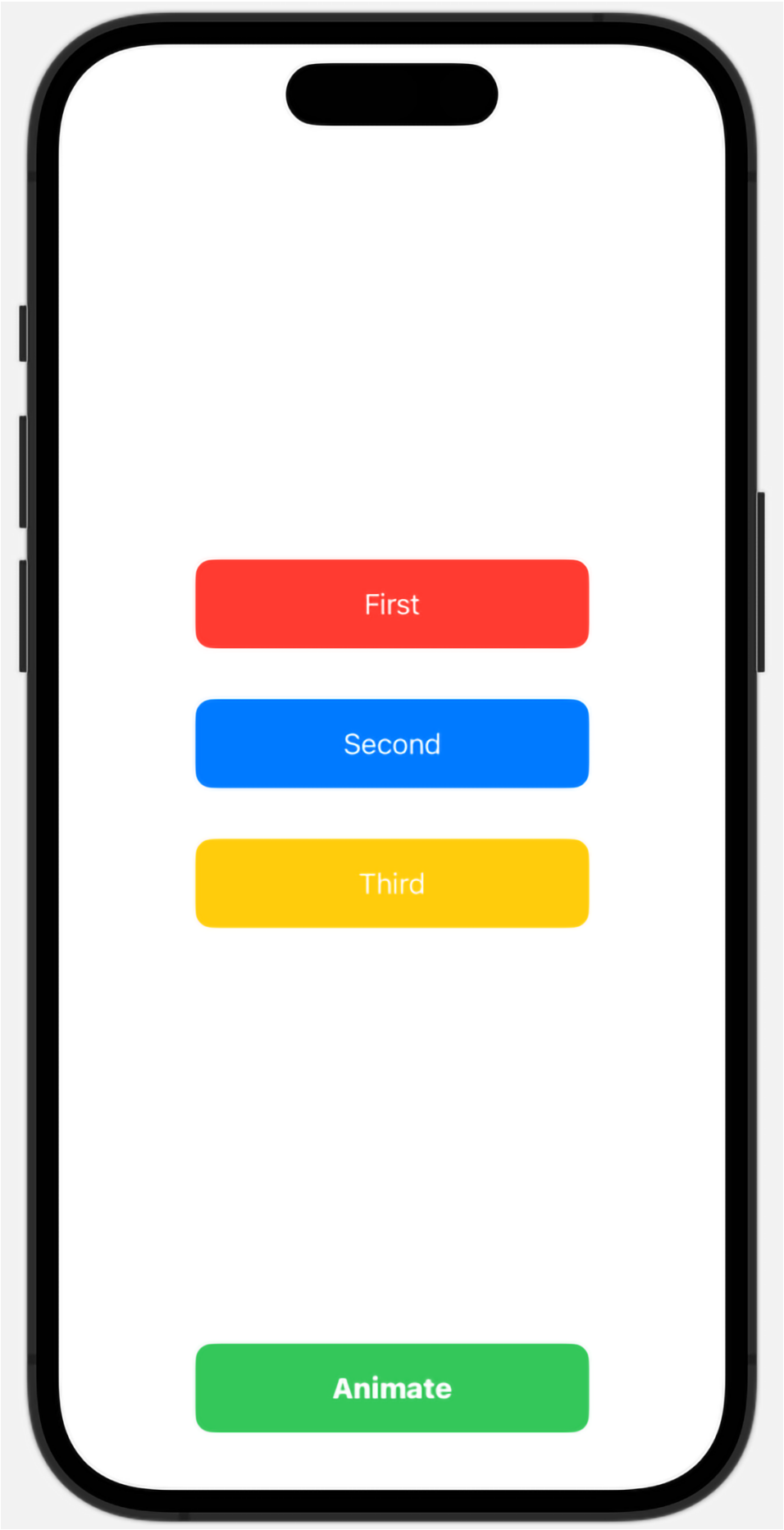




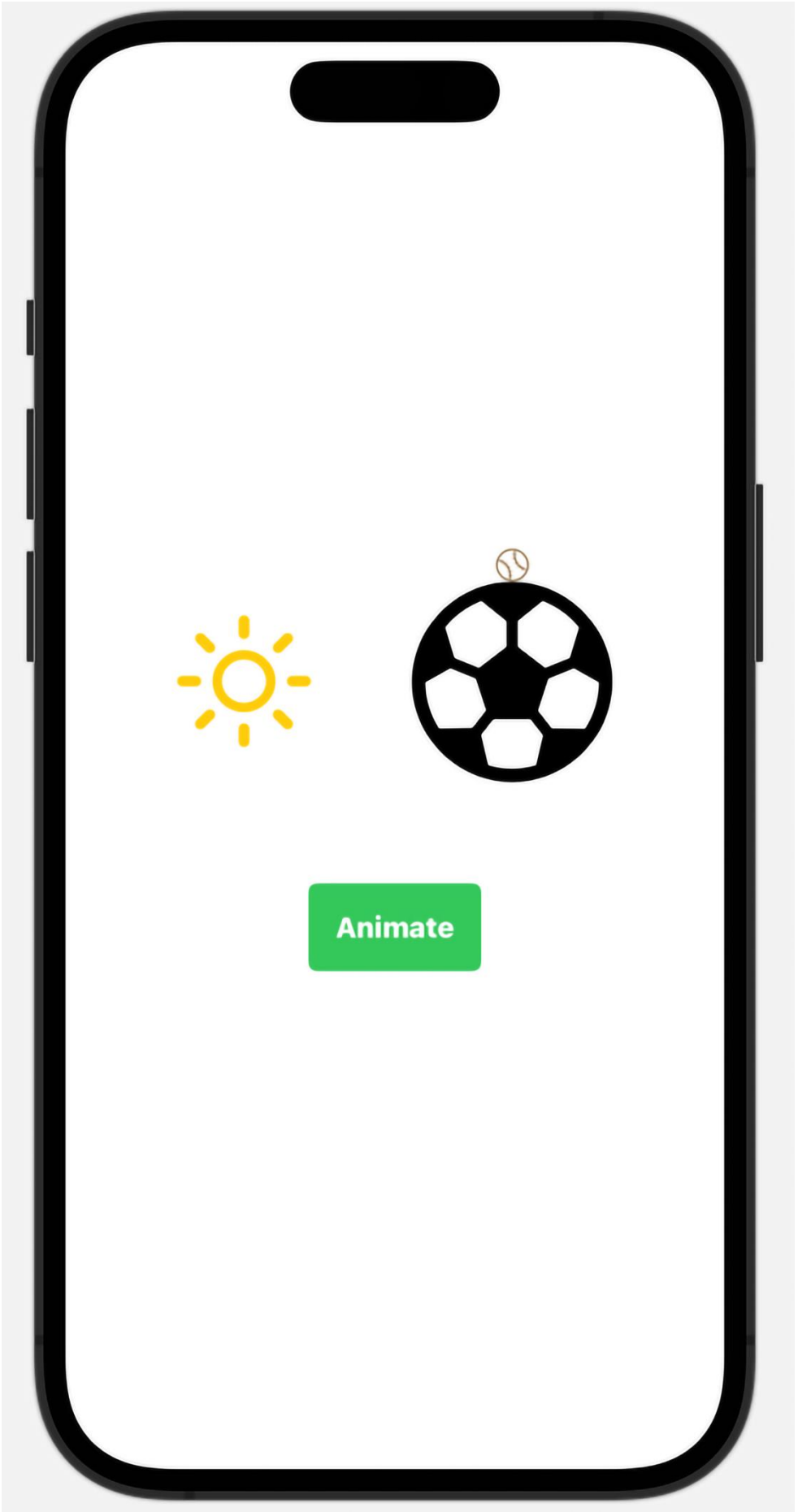
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value: 1.0000194373421276
value: 1.0025879432661413
value: 1.005116186124319 2
value: 1.007616487803188 6
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value: 1.012548539820387 5
value: 1.014984281755761 3
value: 1.017401801182890 5
value: 1.019801965840262 6
value: 1.022184949275575 7
value: 1.024551619227317 2
value: 1.026902496338 58
value: 1.029237927704759 2
value: 1.031558260421 25
value: 1.033863494488052 3
value: 1.036154150548258 8

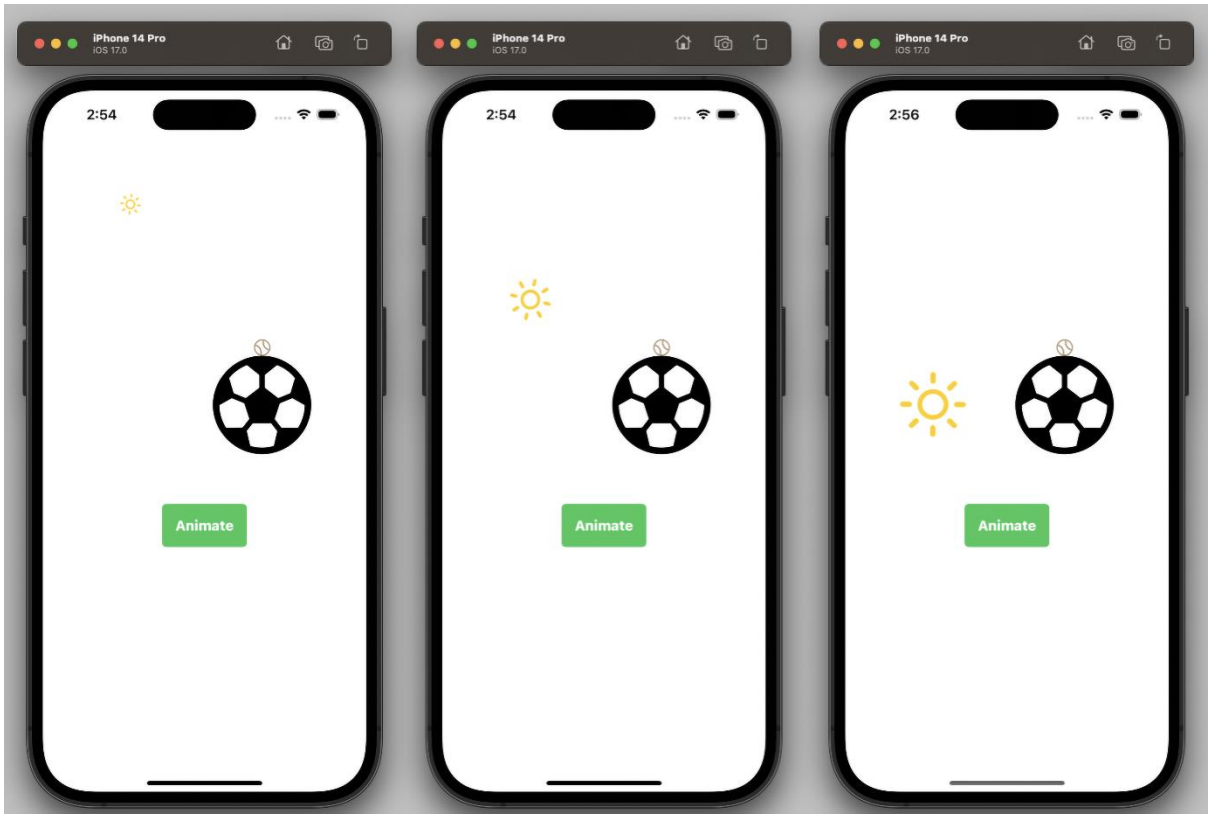

Hello, World!
Hide

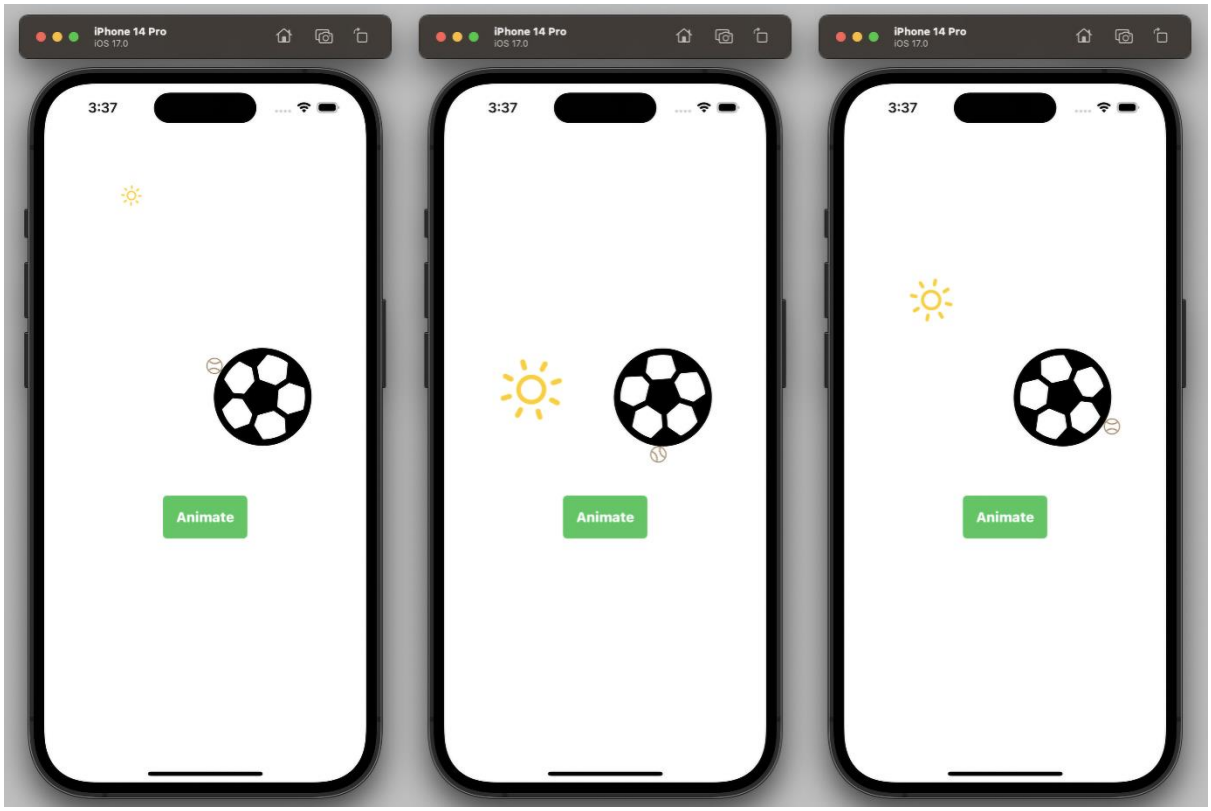

Animate

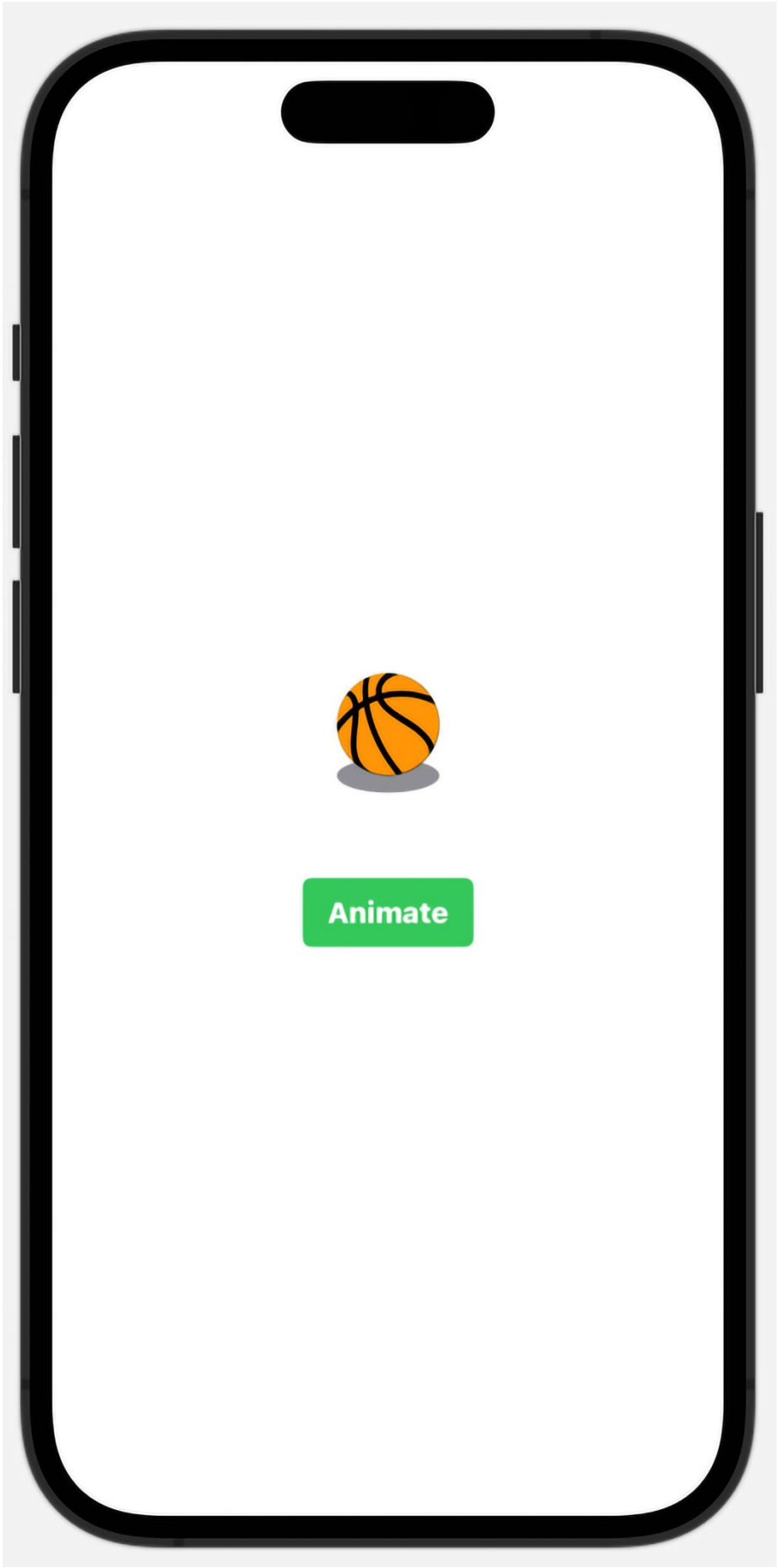

First
Second
Third
Animate

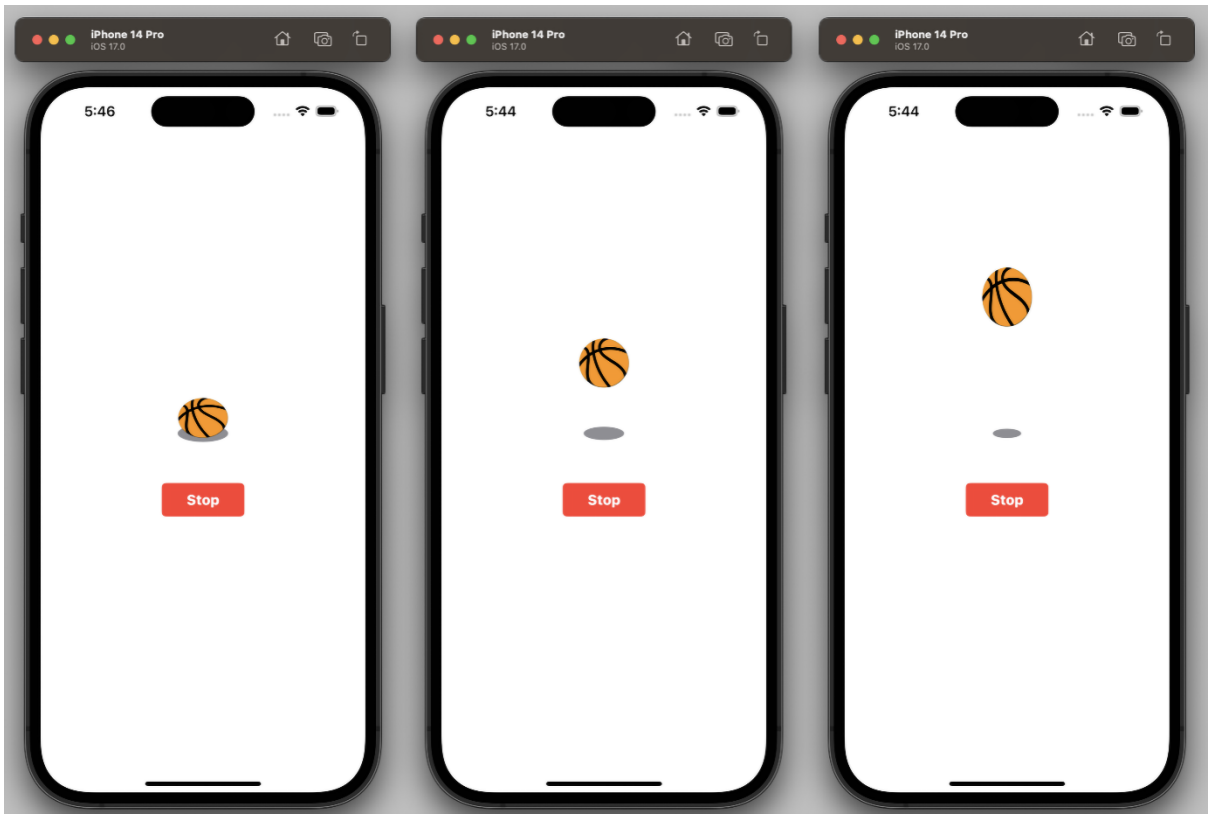

Animate
Animate
Animate

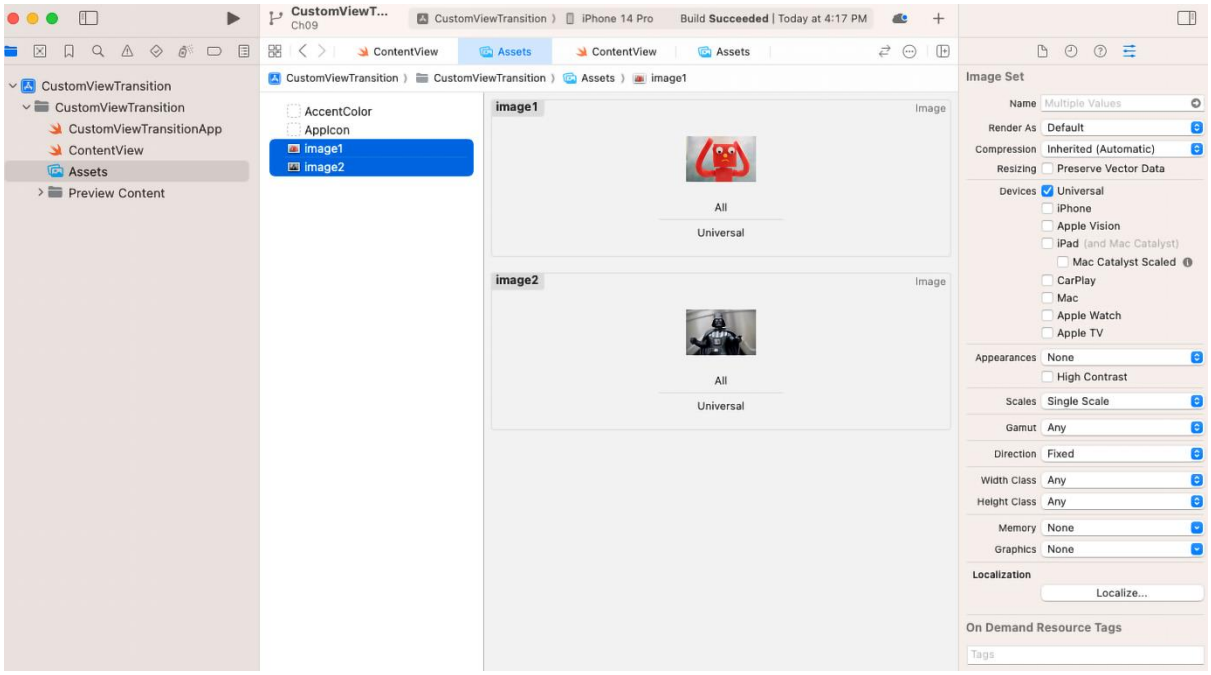

Animate

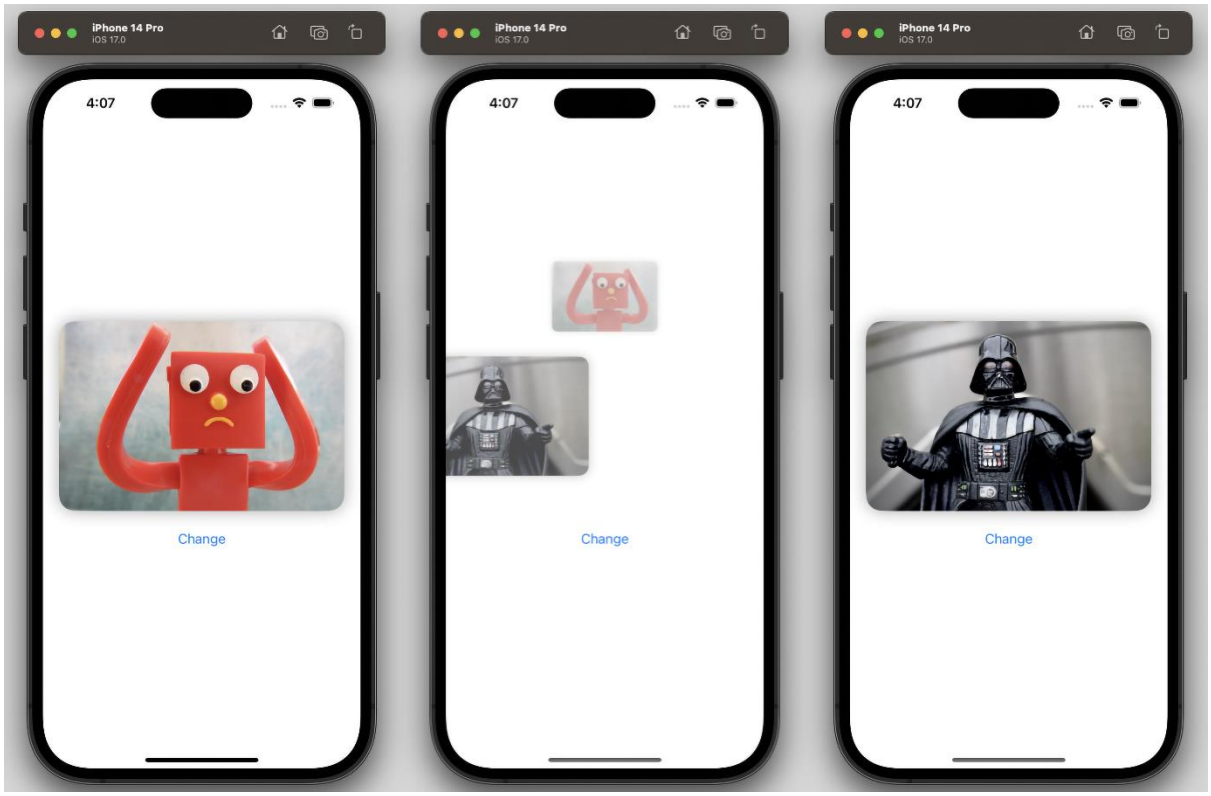

iPhone 14 Pro
iOS 17.0
2:54
Animate
iPhone 14 Pro
iOS 17.0
2:54
Animate
iPhone 14 Pro
iOS 17.0
2:56
Animate

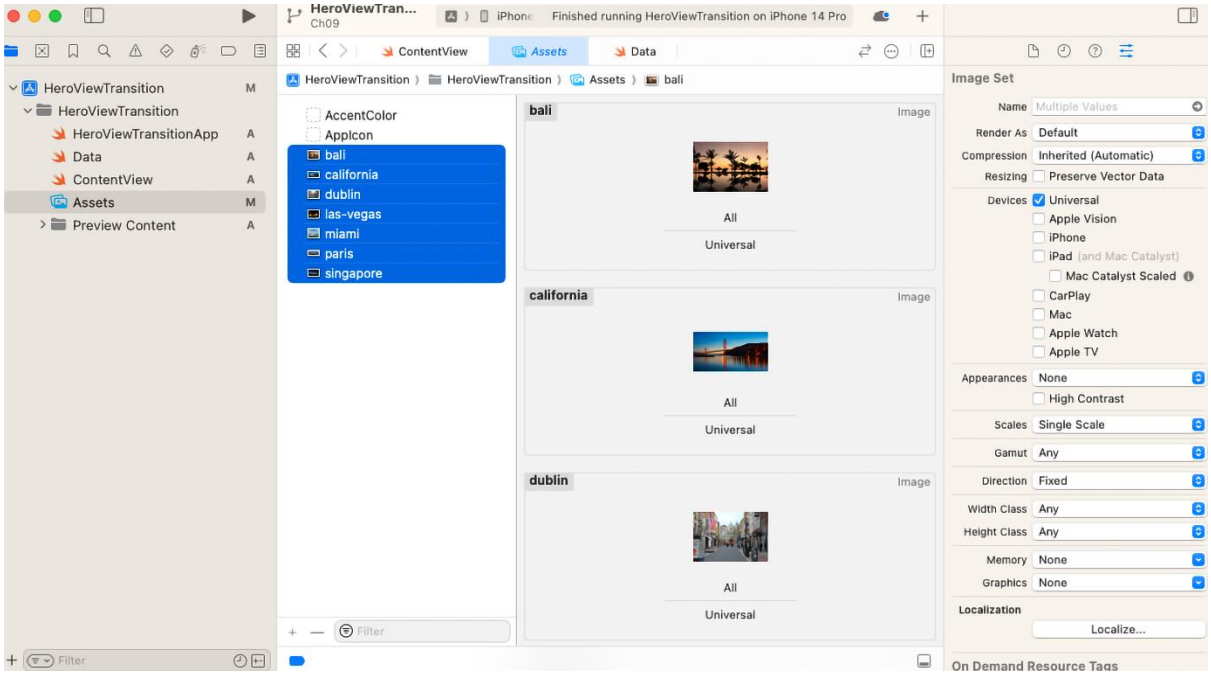

iPhone 14 Pro
iOS 17.0
3:37
Animate
iPhone 14 Pro
iOS 17.0
3:37
Animate
iPhone 14 Pro
iOS 17.0
3:37
Animate


Animate

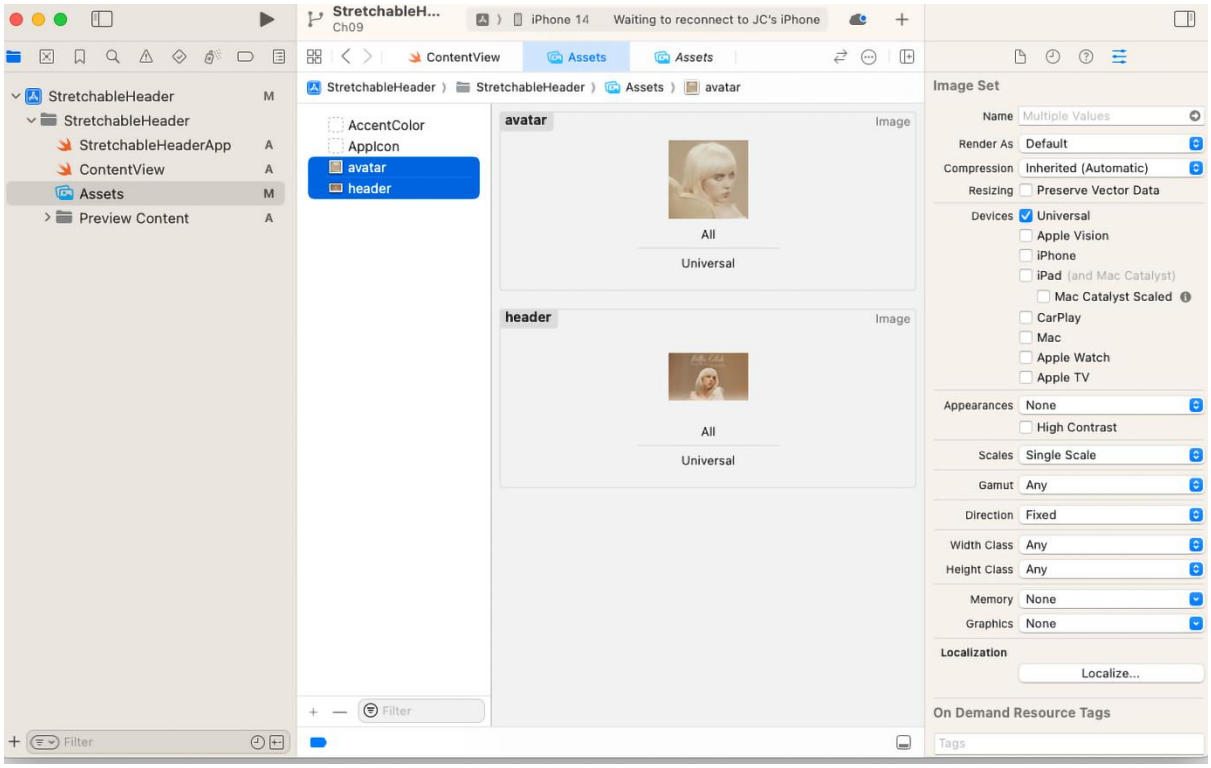

iPhone 14 Pro
iOS 17.0
5:46
Stop
iPhone 14 Pro
iOS 17.0
5:44
Stop
iPhone 14 Pro
iOS 17.0
5:44
Stop


CustomViewT...
Ch09
CustomViewTransition
iPhone 14 Pro
Build Succeeded | Today at 4:17 PM
ContentView
Assets
ContentView
Assets
CustomViewTransition
CustomViewTransition
Assets
image1
CustomViewTransition
CustomViewTransition
CustomViewTransitionApp
ContentView
Assets
Preview Content
AccentColor
AppIcon
image1
image2
image1
Image
All
Universal
image2
Image
All
Universal
Image Set
Name
Multiple Values
Render As
Default
Compression
Inherited (Automatic)
Resizing
Preserve Vector Data
Devices
Universal
iPhone
Apple Vision
iPad (and Mac Catalyst)
Mac Catalyst Scaled
CarPlay
Mac
Apple Watch
Apple TV
Appearances
None
High Contrast
Scales
Single Scale
Gamut
Any
Direction
Fixed
Width Class
Any
Height Class
Any
Memory
None
Graphics
None
Localization
Localize...
On Demand Resource Tags
Tags


iPhone 14 Pro
iOS 17.0
4:07
Change
iPhone 14 Pro
iOS 17.0
4:07
Change
iPhone 14 Pro
iOS 17.0
4:07
Change


HeroViewTran...
Ch09
Finished running HeroViewTransition on iPhone 14 Pro
ContentView
Assets
Data
HeroViewTransition
HeroViewTransition
HeroViewTransitionApp
Data
ContentView
Assets
Preview Content
AccentColor
AppIcon
bali
california
dublin
las-vegas
miami
paris
singapore
bali
Image
All
Universal
california
Image
All
Universal
dublin
Image
All
Universal
Image Set
Name
Multiple Values
Render As
Default
Compression
Inherited (Automatic)
Resizing
Preserve Vector Data
Devices
Universal
Apple Vision
iPhone
iPad (and Mac Catalyst)
Mac Catalyst Scaled
CarPlay
Mac
Apple Watch
Apple TV
Appearances
None
High Contrast
Scales
Single Scale
Gamut
Any
Direction
Fixed
Width Class
Any
Height Class
Any
Memory
None
Graphics
None
Localization
Localize...
On Demand Resource Tags

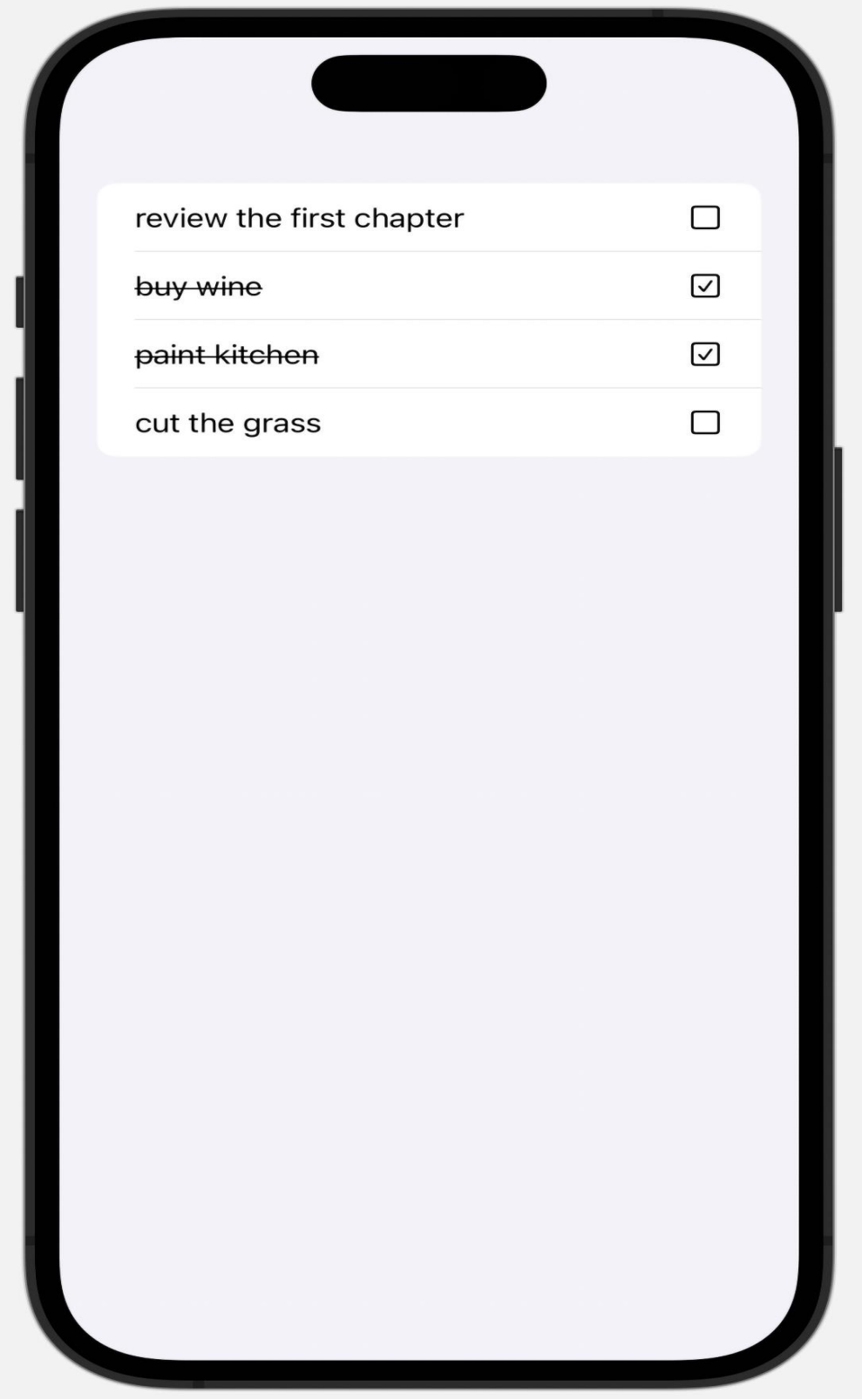

iPhone 14 Pro
iOS 17.0
6:53
6:54
Las Vegas
Las Vegas, is a resort city famed for its vibrant nightlife, centered around 24-hour casinos and other entertainment options. Its main street and focal point is the Strip, just over 4 miles long.Nevada is a western U.S. state defined by its great expanses of desert, and by the 24-hour casinos and entertainment for which its largest city, Las Vegas, in Nevada's Mojave Desert.

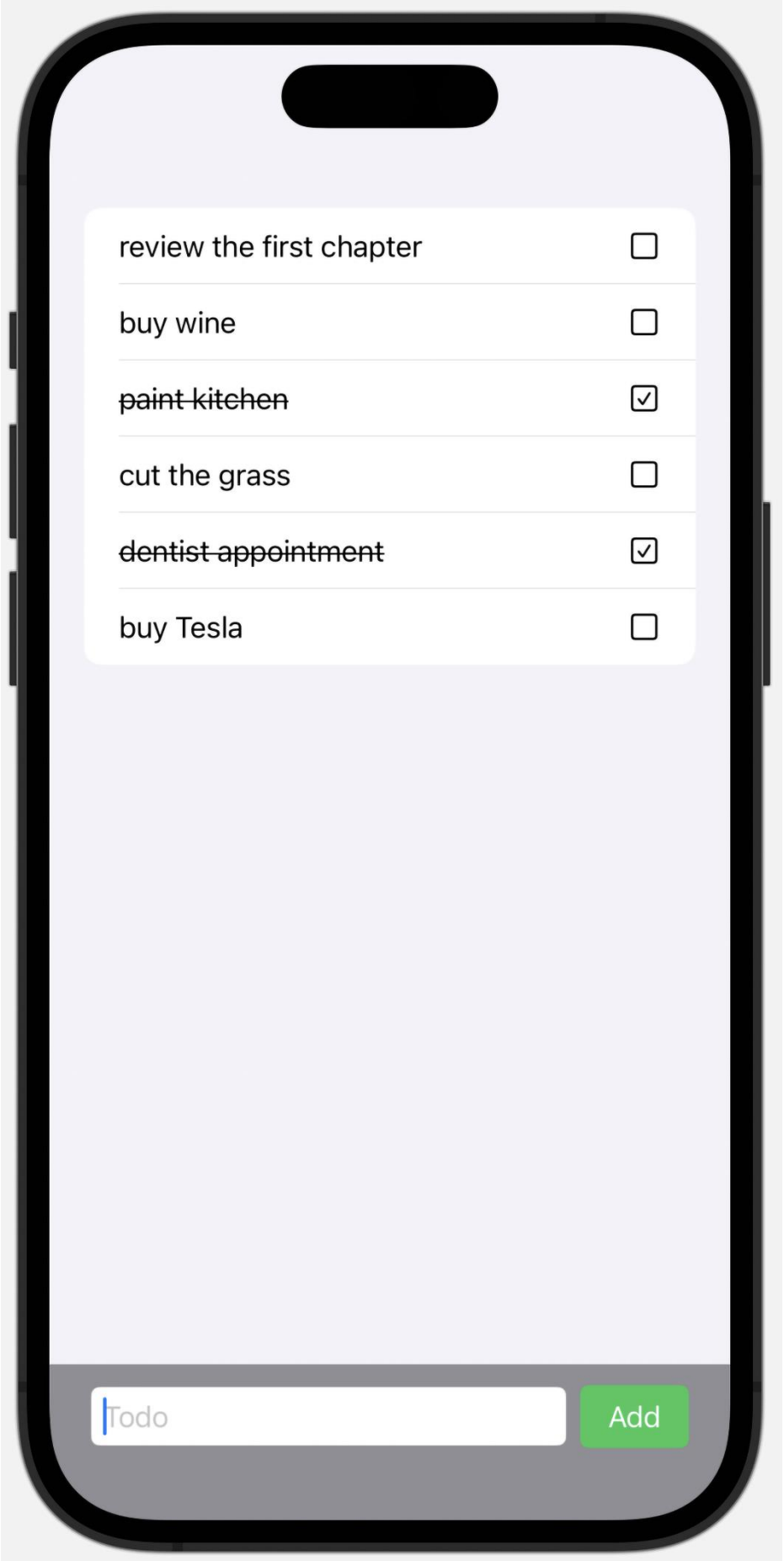

StretchableH...
Ch09
iPhone 14
Waiting to reconnect to JC's iPhone
ContentView
Assets
StretchableHeader
StretchableHeaderApp
ContentView
Assets
Preview Content
AccentColor
AppIcon
avatar
header
Image Set
Name
Render As
Compression
Resizing
Devices
Universal
Apple Vision
iPhone
iPad
Mac Catalyst Scaled
CarPlay
Mac
Apple Watch
Apple TV
Appearances
High Contrast
Scales
Gamut
Direction
Width Class
Height Class
Memory
Graphics
Localization
Localize...
On Demand Resource Tags

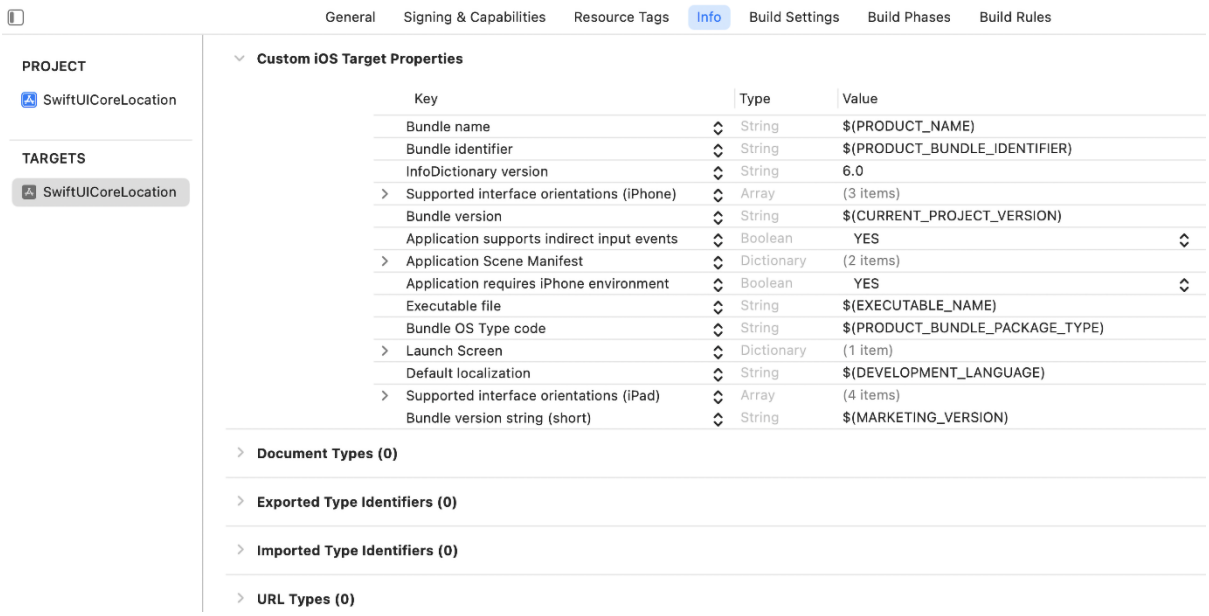

Billie Eilish
Happier Than Ever
The World Tour
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever
Billie Eilish
Happier Than Ever


Rooney
Lola Pince
Jim Beam

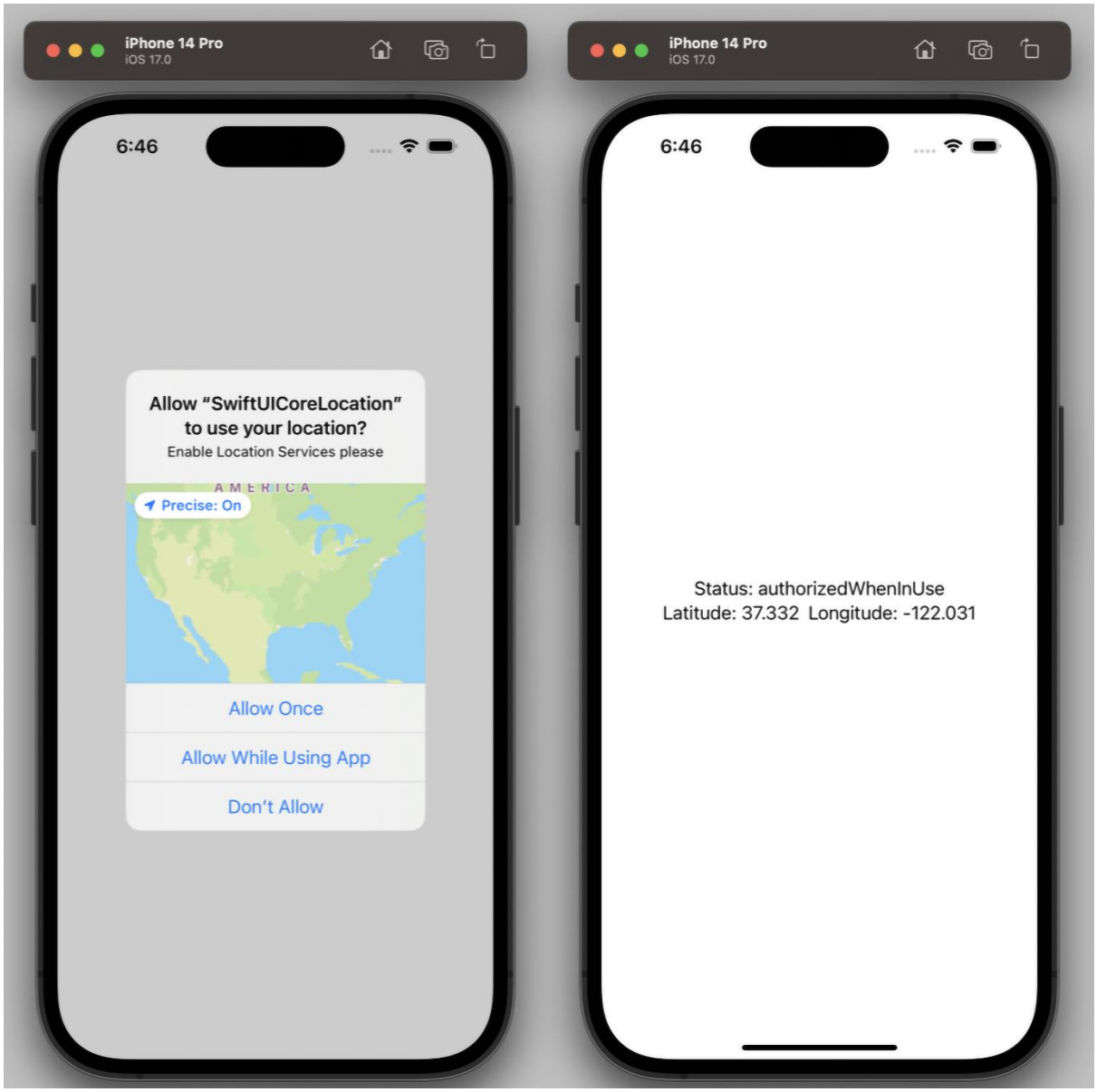
Chapter 10: Driving SwiftUI with Data

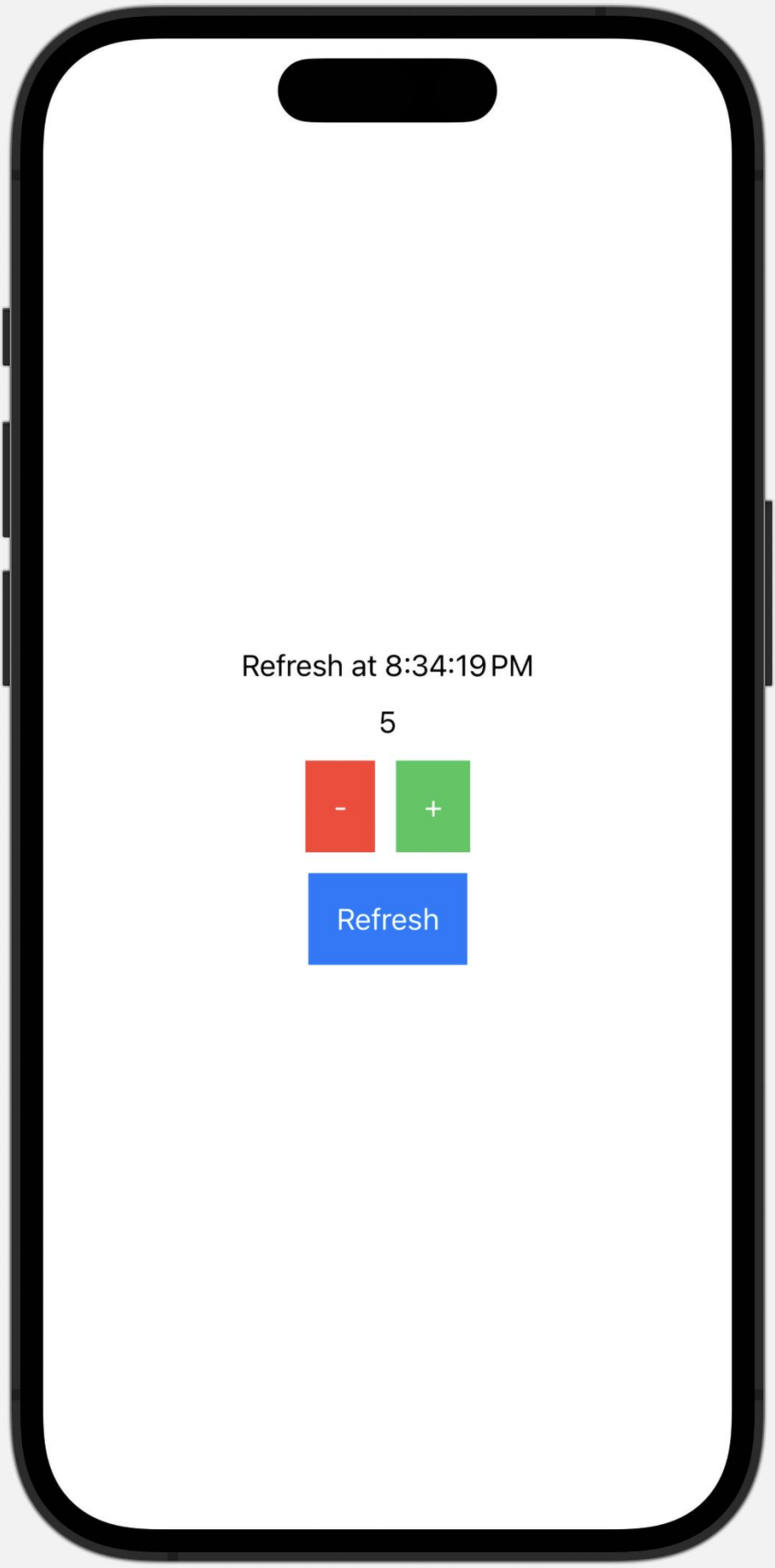


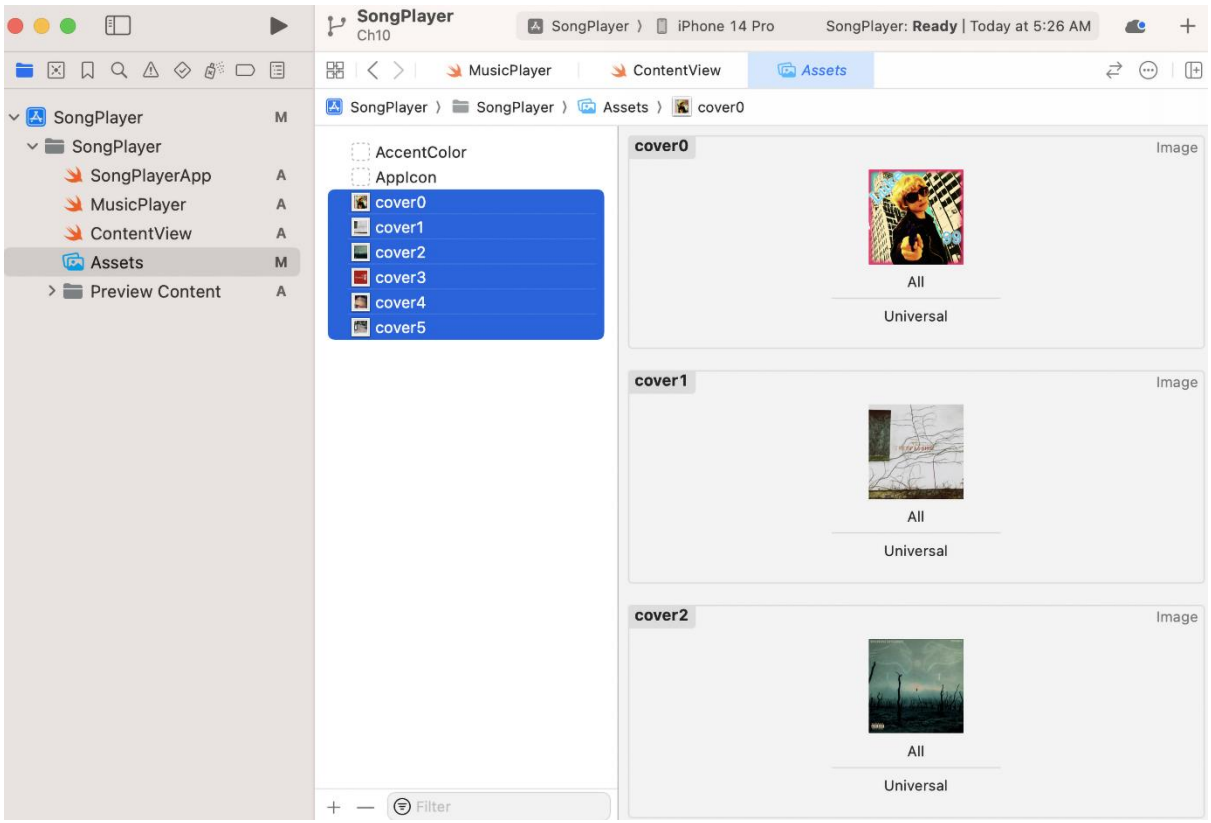

review the first chapter
buy wine
paint kitchen
cut the grass
dentist appointment
buy Tesla
Todo
Add

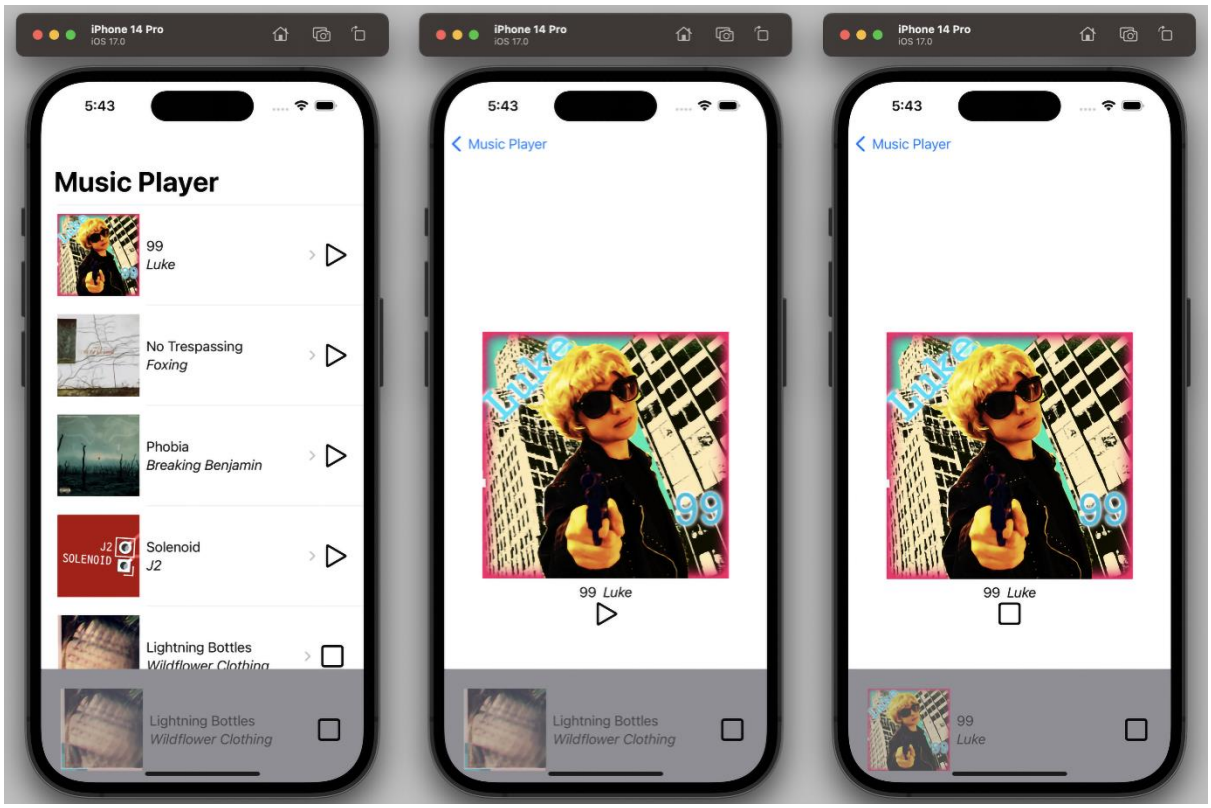


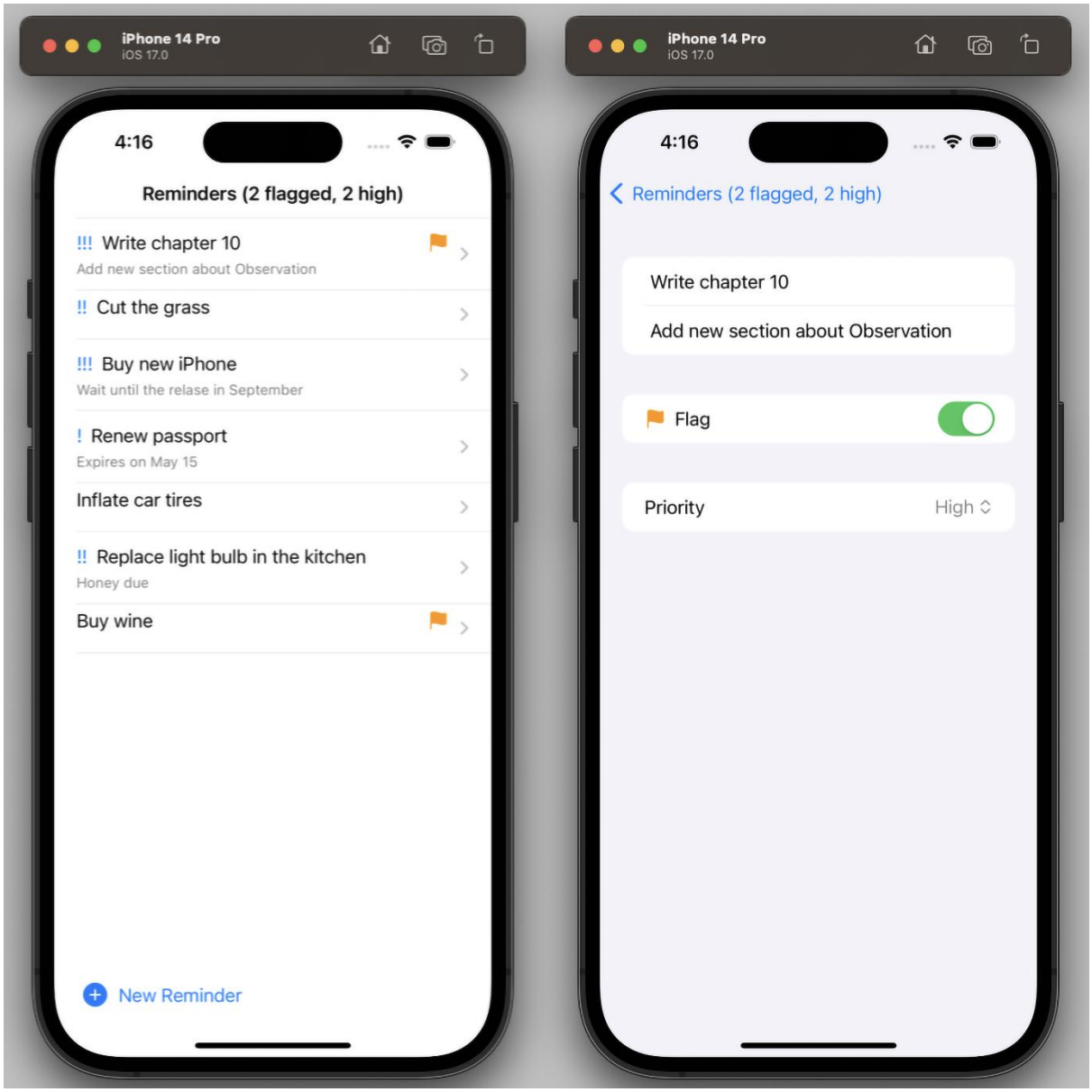
InfoDictionary version	String	6.0
Privacy - Location When In Use Usage Description	String	Enable Location Services please
Bundle version	String	$(CURRENT_PROJECT_VERSION)

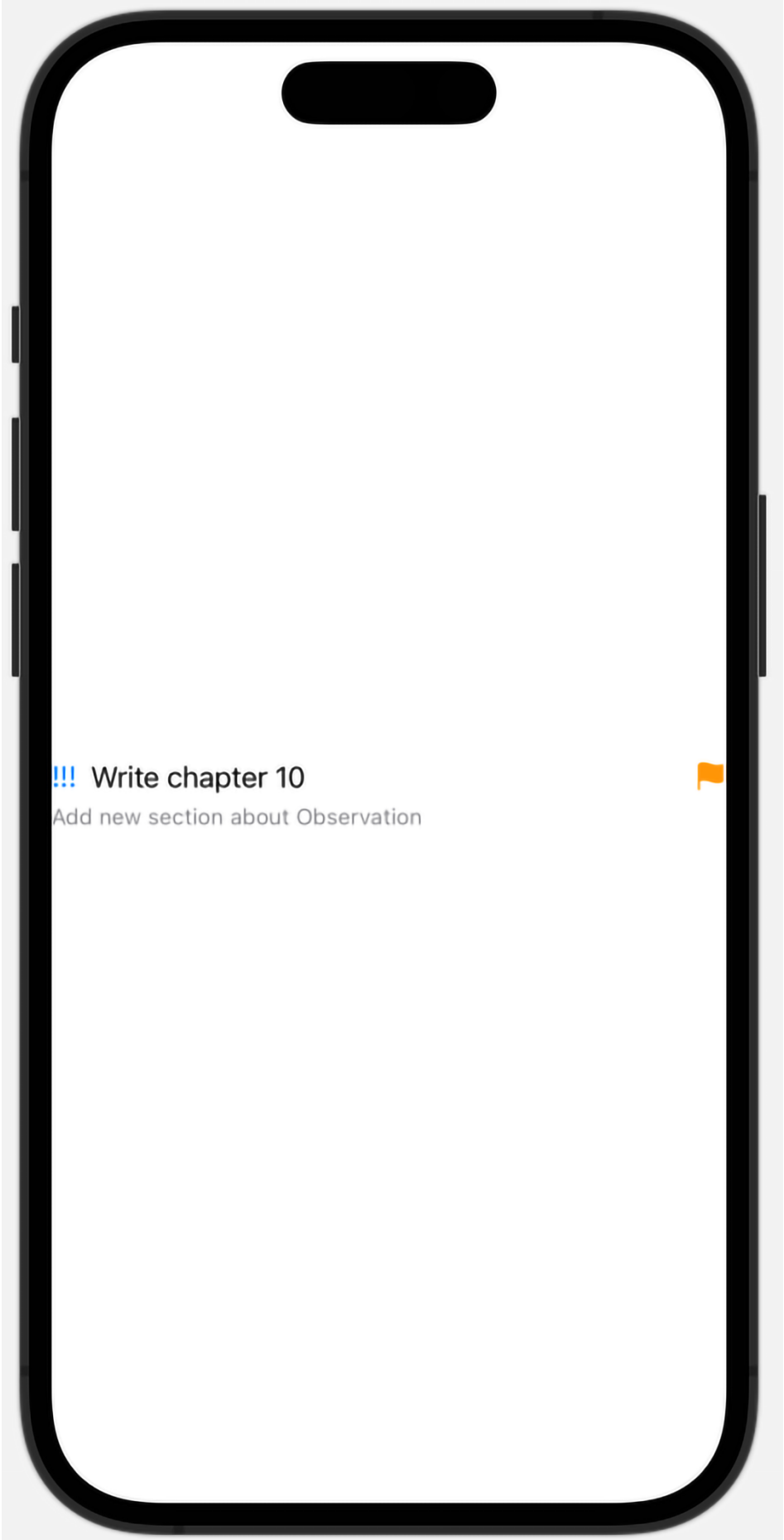

iPhone 14 Pro
iOS 17.0
6:46
Allow "SwiftUICoreLocation" to use your location?
Enable Location Services please
AMERICA
Precise: On
Allow Once
Allow While Using App
Don't Allow
iPhone 14 Pro
iOS 17.0
6:46
Status: authorizedWhenInUse
Latitude: 37.332 Longitude: -122.031

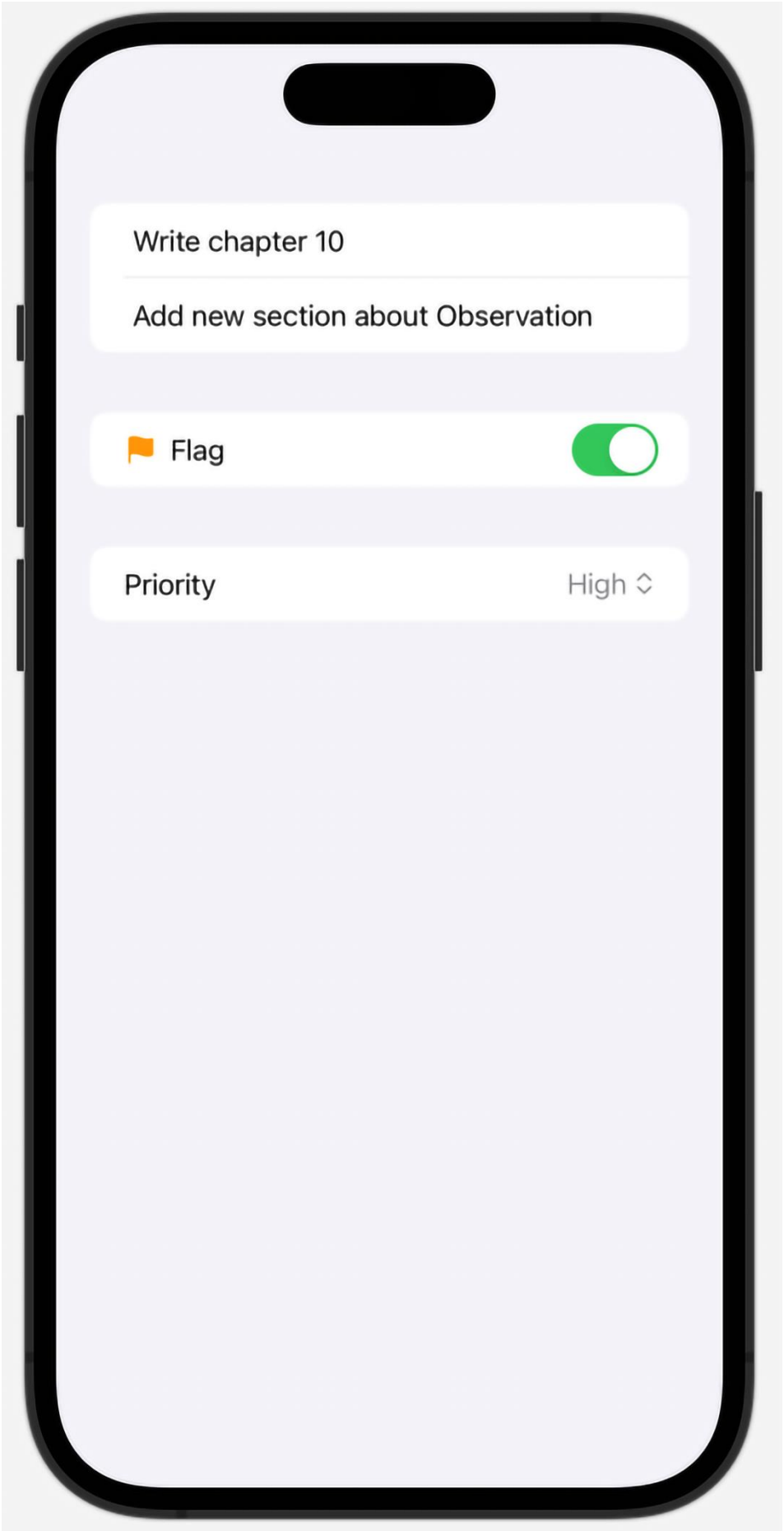

Refresh at 8:34:19 PM
5
-
+
Refresh

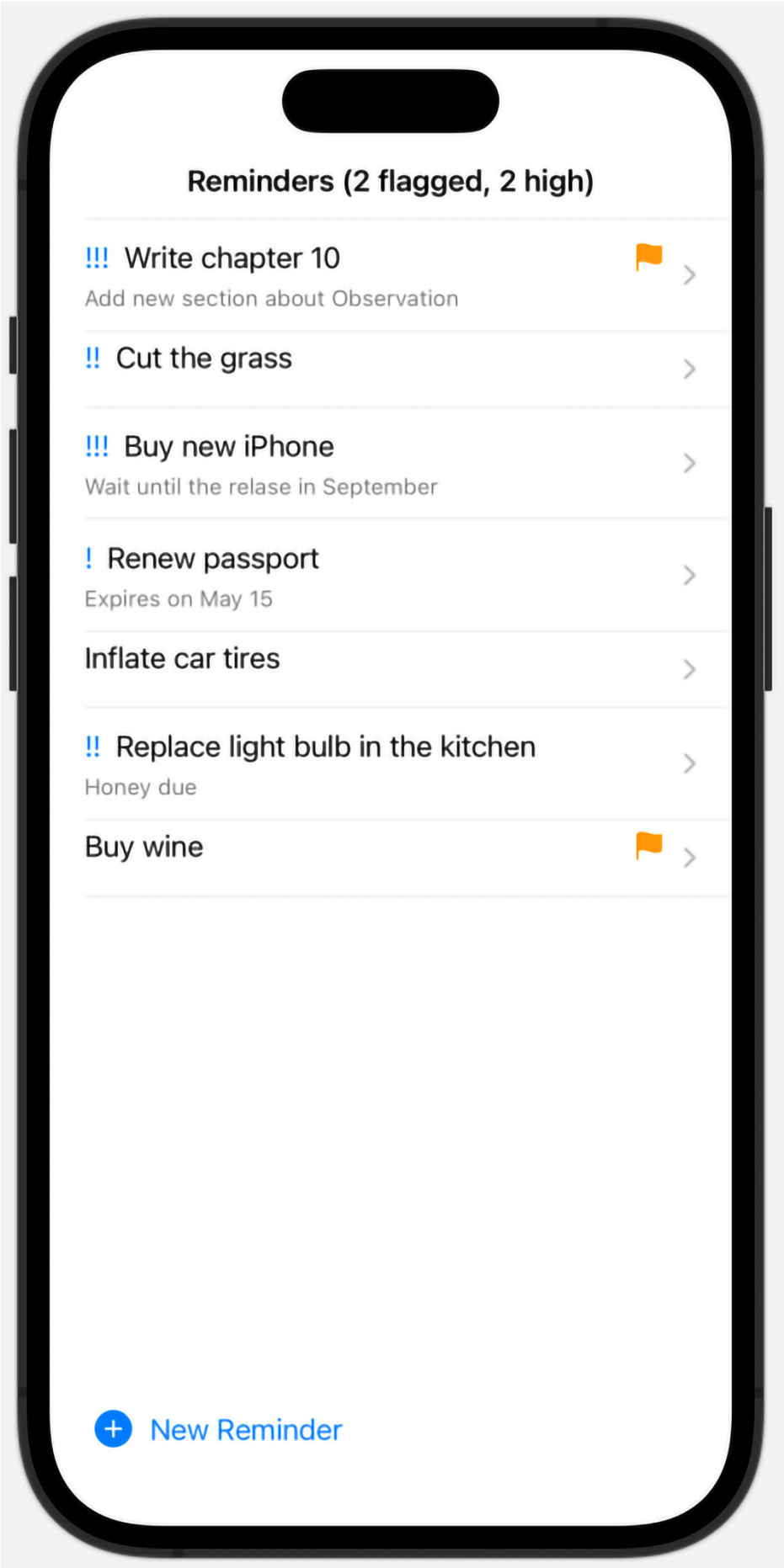

SongPlayer
Ch10
SongPlayer 〉 iPhone 14 Pro
SongPlayer: Ready | Today at 5:26 AM
MusicPlayer
ContentView
Assets
SongPlayer 〉 SongPlayer 〉 Assets 〉 cover0
SongPlayer
SongPlayer
SongPlayerApp
MusicPlayer
ContentView
Assets
Preview Content
AccentColor
AppIcon
cover0
cover1
cover2
cover3
cover4
cover5
Filter
cover0
Image
All
Universal
cover1
Image
All
Universal
cover2
Image
All
Universal

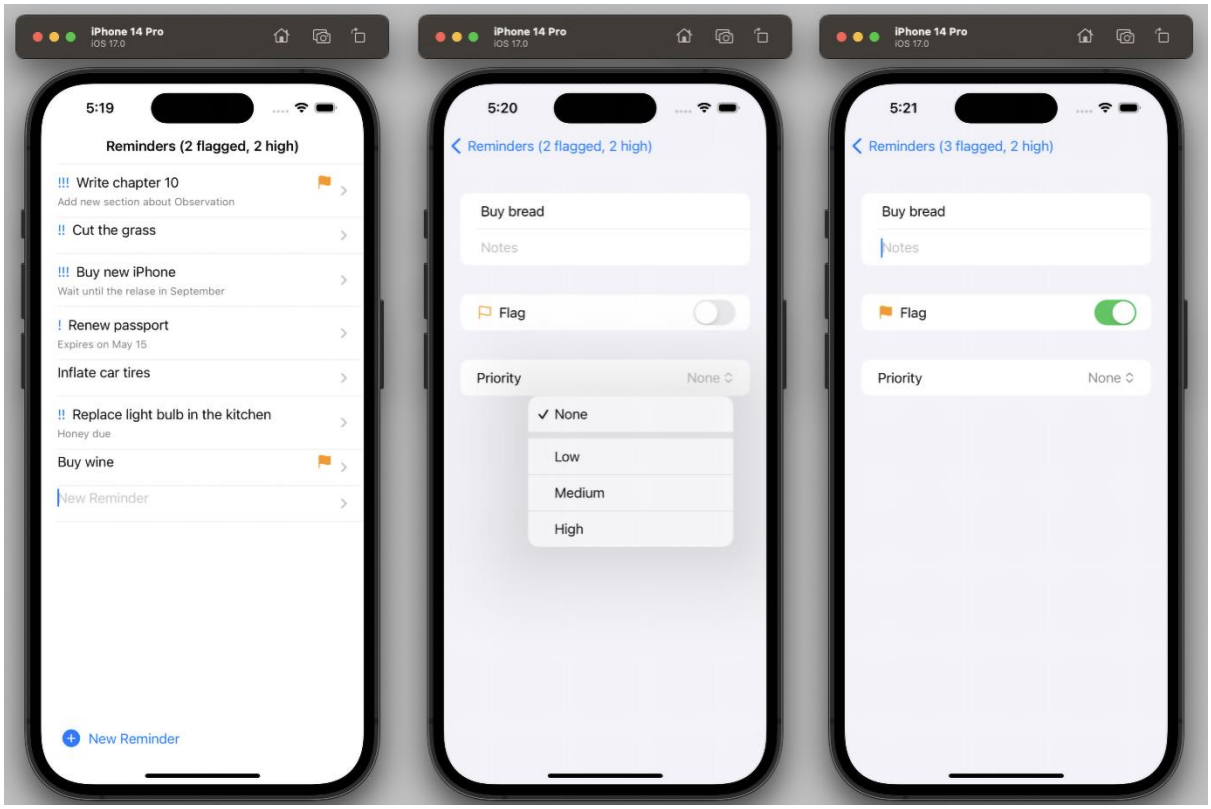

iPhone 14 Pro
iOS 17.0
5:43
Music Player
99
Luke
No Trespassing
Foxing
Phobia
Breaking Benjamin
Solenoid
J2
Lightning Bottles
Wildflower Clothing
Music Player
99 Luke
Lightning Bottles
Wildflower Clothing
Music Player
99 Luke
99
Luke


iPhone 14 Pro
iOS 17.0
4:16
Reminders (2 flagged, 2 high)
!!! Write chapter 10
Add new section about Observation
!! Cut the grass
!!! Buy new iPhone
Wait until the relase in September
! Renew passport
Expires on May 15
Inflate car tires
!! Replace light bulb in the kitchen
Honey due
Buy wine
New Reminder
iPhone 14 Pro
iOS 17.0
4:16
Reminders (2 flagged, 2 high)
Write chapter 10
Add new section about Observation
Flag
Priority
High

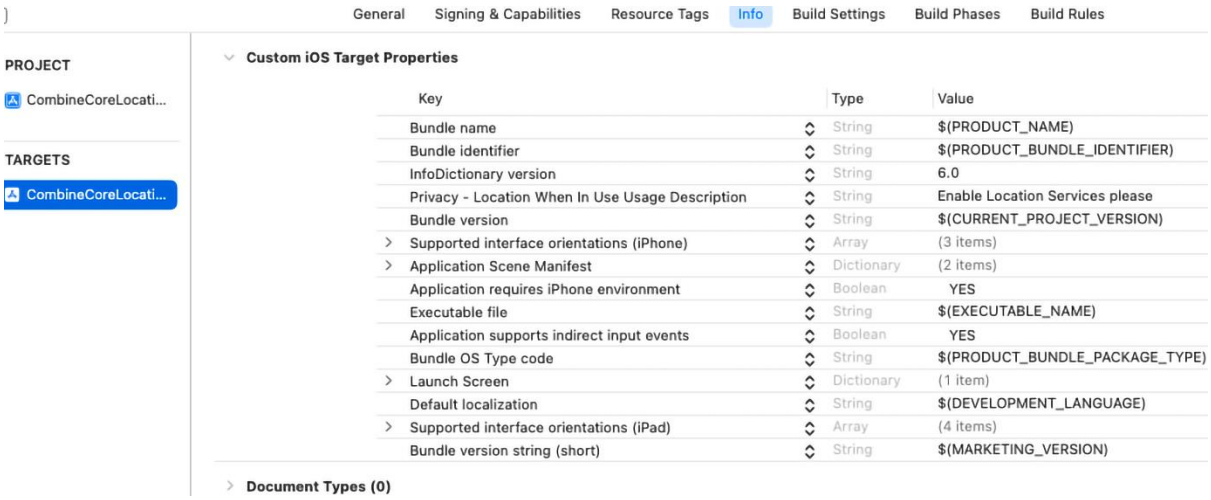

!!! Write chapter 10
Add new section about Observation


Write chapter 10
Add new section about Observation
Flag
Priority
High

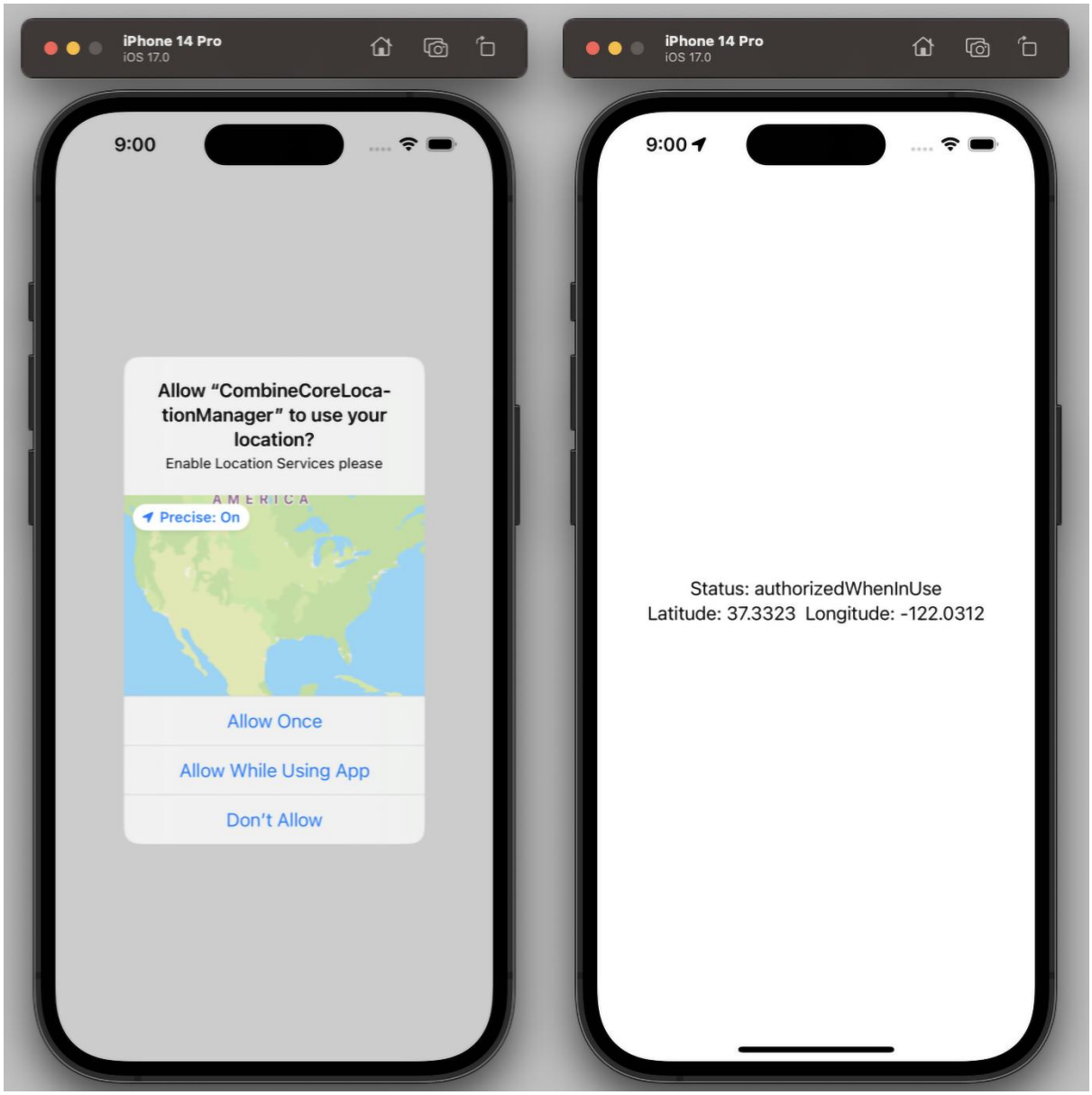

Reminders (2 flagged, 2 high)
!!! Write chapter 10
Add new section about Observation
!! Cut the grass
!!! Buy new iPhone
Wait until the relase in September
! Renew passport
Expires on May 15
Inflate car tires
!! Replace light bulb in the kitchen
Honey due
Buy wine
New Reminder

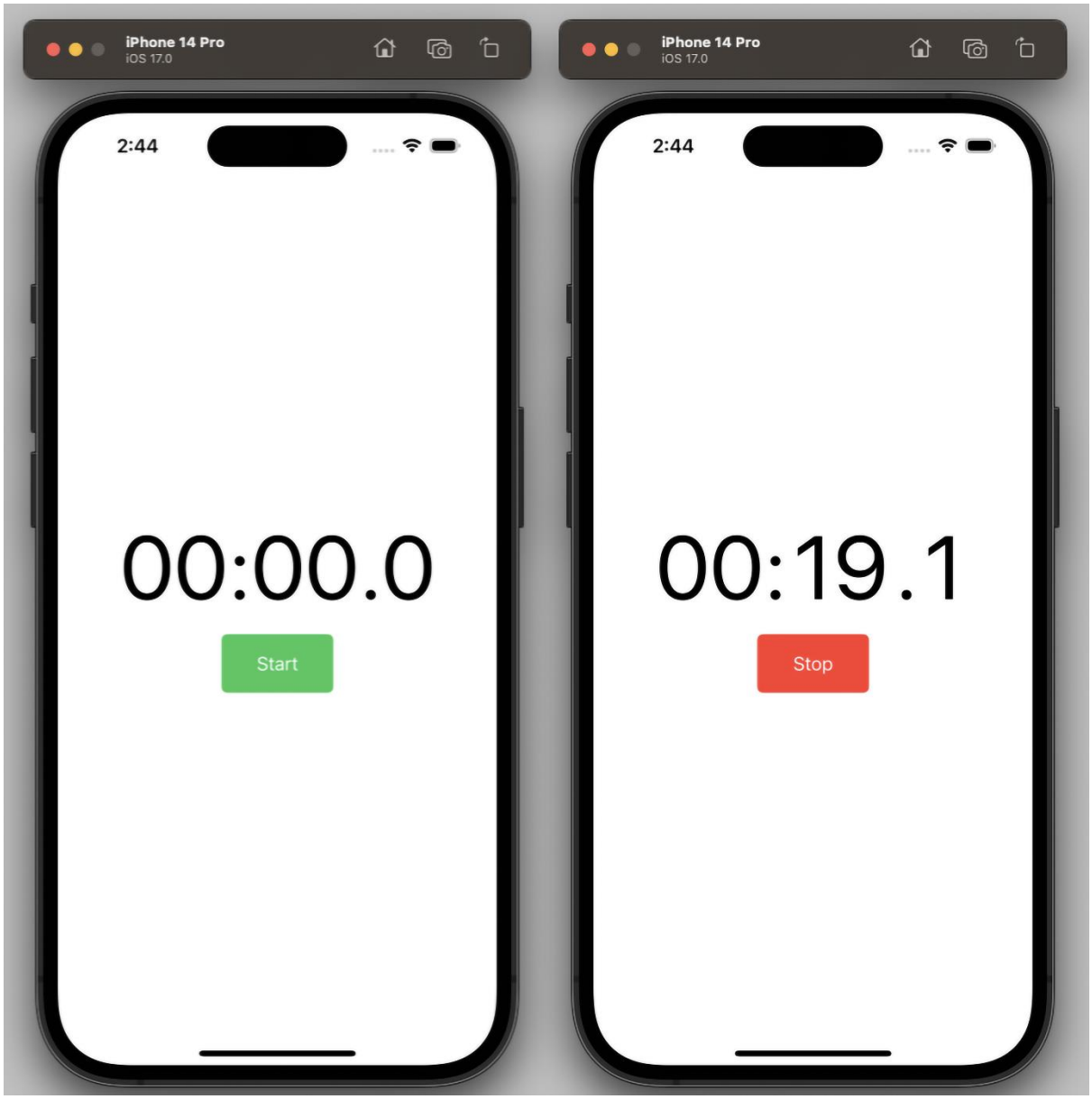

iPhone 14 Pro
iOS 17.0
5:19
Reminders (2 flagged, 2 high)
!!! Write chapter 10
Add new section about Observation
!! Cut the grass
!!! Buy new iPhone
Wait until the relase in September
! Renew passport
Expires on May 15
Inflate car tires
!! Replace light bulb in the kitchen
Honey due
Buy wine
New Reminder
New Reminder
iPhone 14 Pro
iOS 17.0
5:20
Reminders (2 flagged, 2 high)
Buy bread
Notes
Flag
Priority
None
None
Low
Medium
High
iPhone 14 Pro
iOS 17.0
5:21
Reminders (3 flagged, 2 high)
Buy bread
Notes
Flag
Priority
None

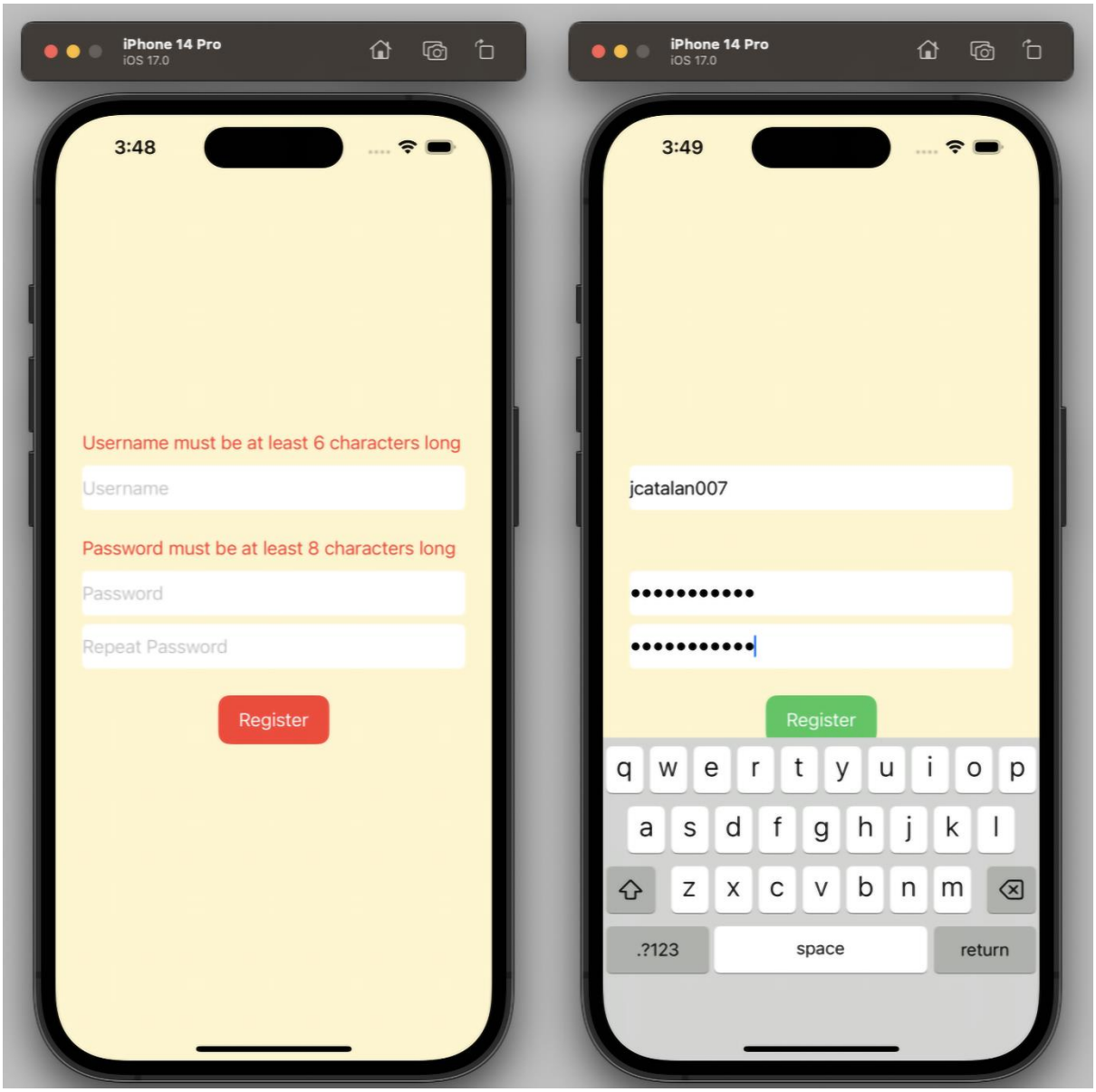
Chapter 11: Driving SwiftUI with Combine

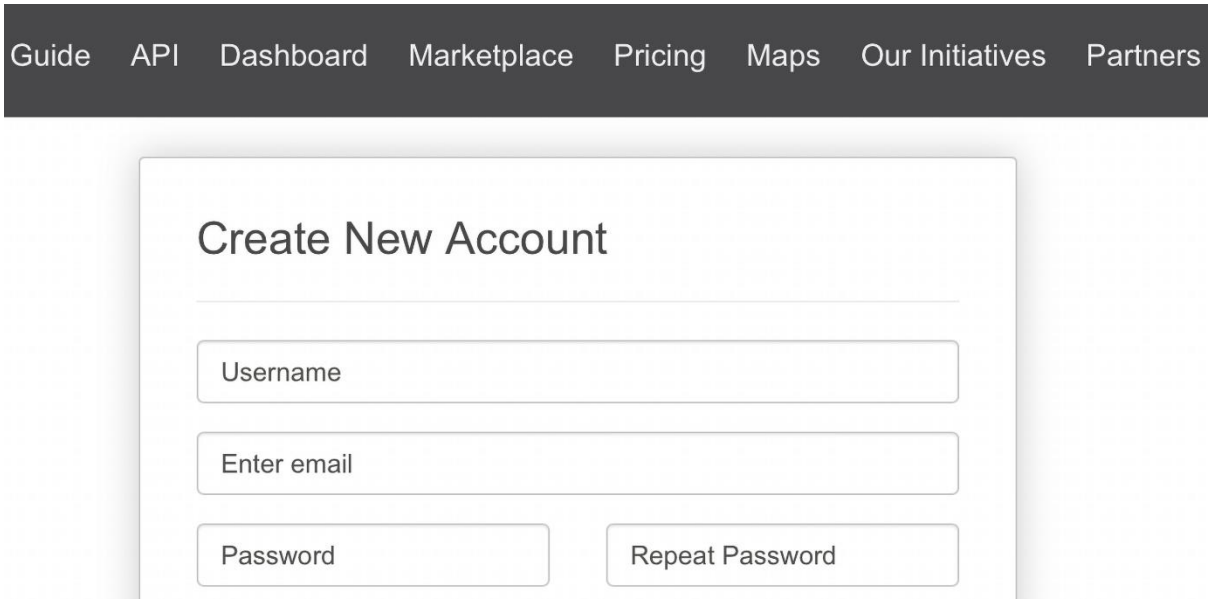


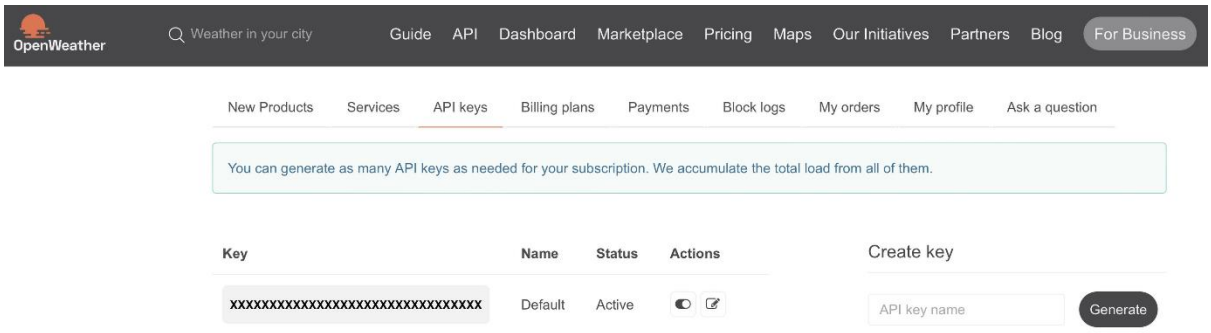
InfoDictionary version	String	6.0
Privacy - Location When In Use Usage Description	String	Enable Location Services please
Bundle version	String	$(CURRENT_PROJECT_VERSION)

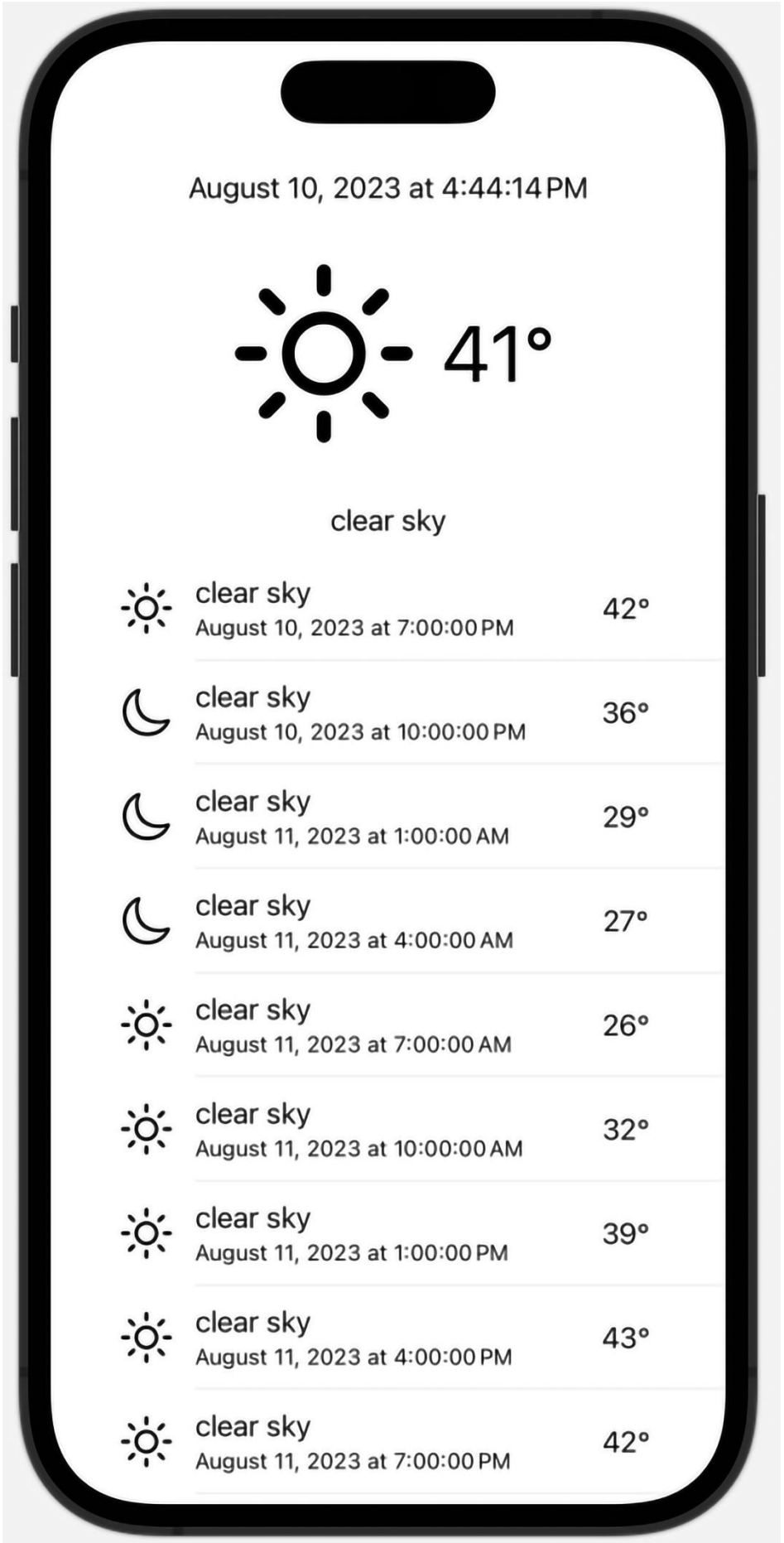

iPhone 14 Pro
iOS 17.0
9:00
Allow "CombineCoreLoca-
tionManager" to use your
location?
Enable Location Services please
AMERICA
Precise: On
Allow Once
Allow While Using App
Don't Allow
iPhone 14 Pro
iOS 17.0
9:00
Status: authorizedWhenInUse
Latitude: 37.3323 Longitude: -122.0312

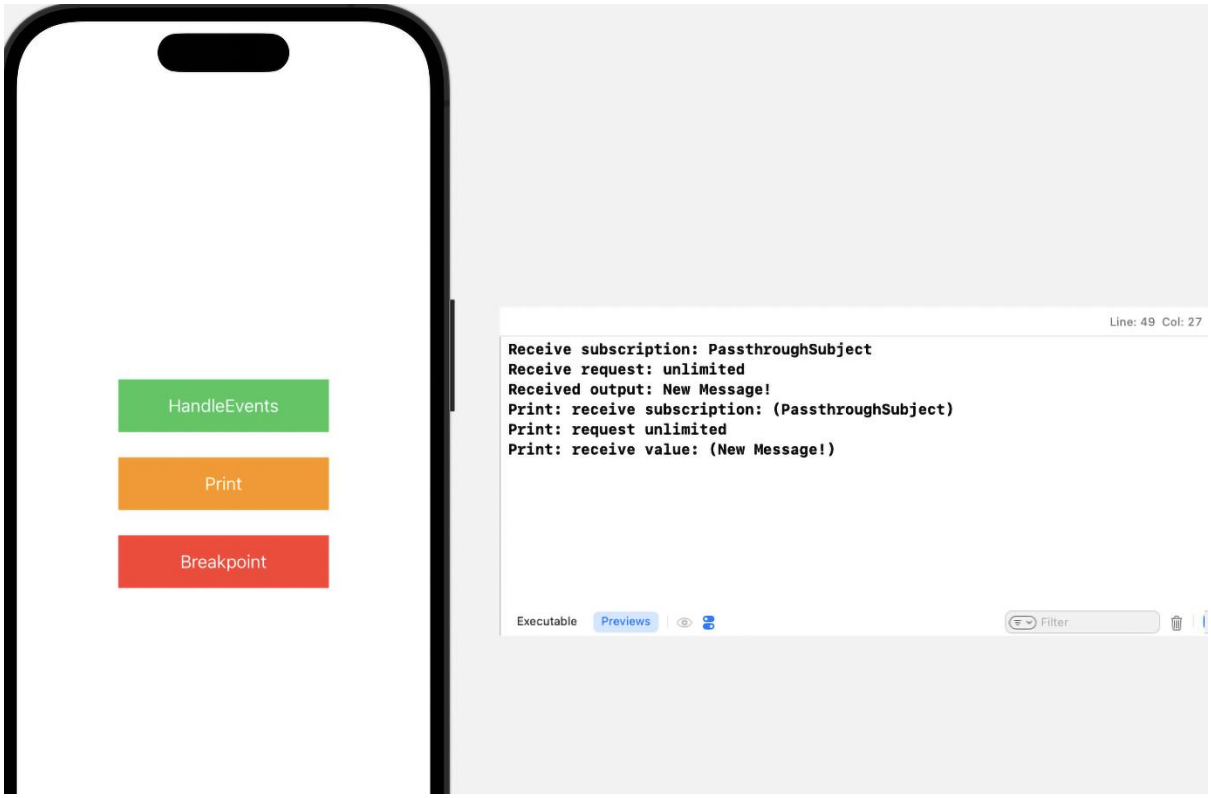

iPhone 14 Pro
iOS 17.0
2:44
00:00.0
Start
iPhone 14 Pro
iOS 17.0
2:44
00:19.1
Stop

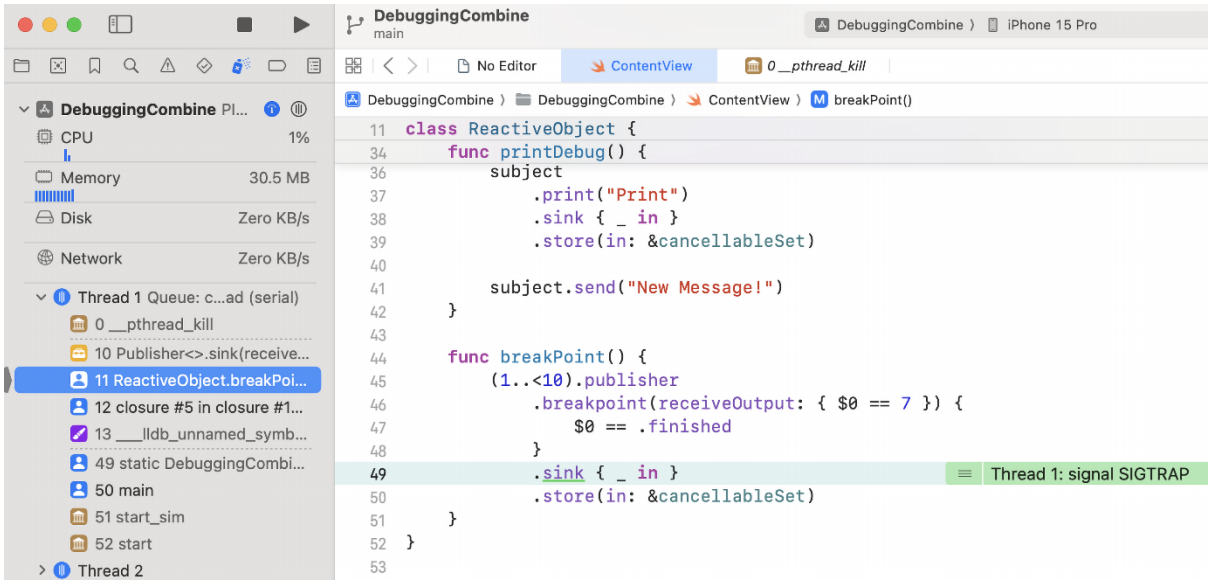

iPhone 14 Pro
iOS 17.0
3:48
Username must be at least 6 characters long
Username
Password must be at least 8 characters long
Password
Repeat Password
Register
iPhone 14 Pro
iOS 17.0
3:49
jcatalan007
Register
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
.?123
space
return

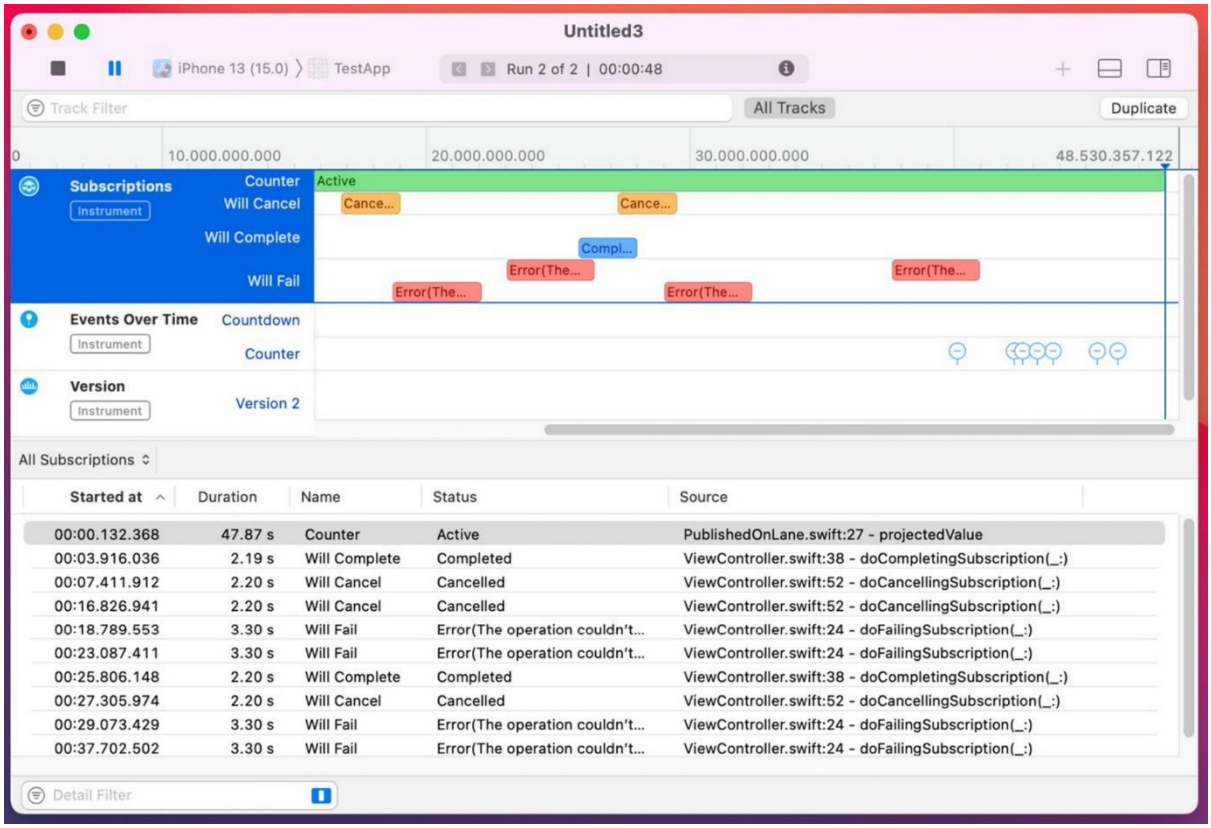

Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Create New Account
Username
Enter email
Password
Repeat Password

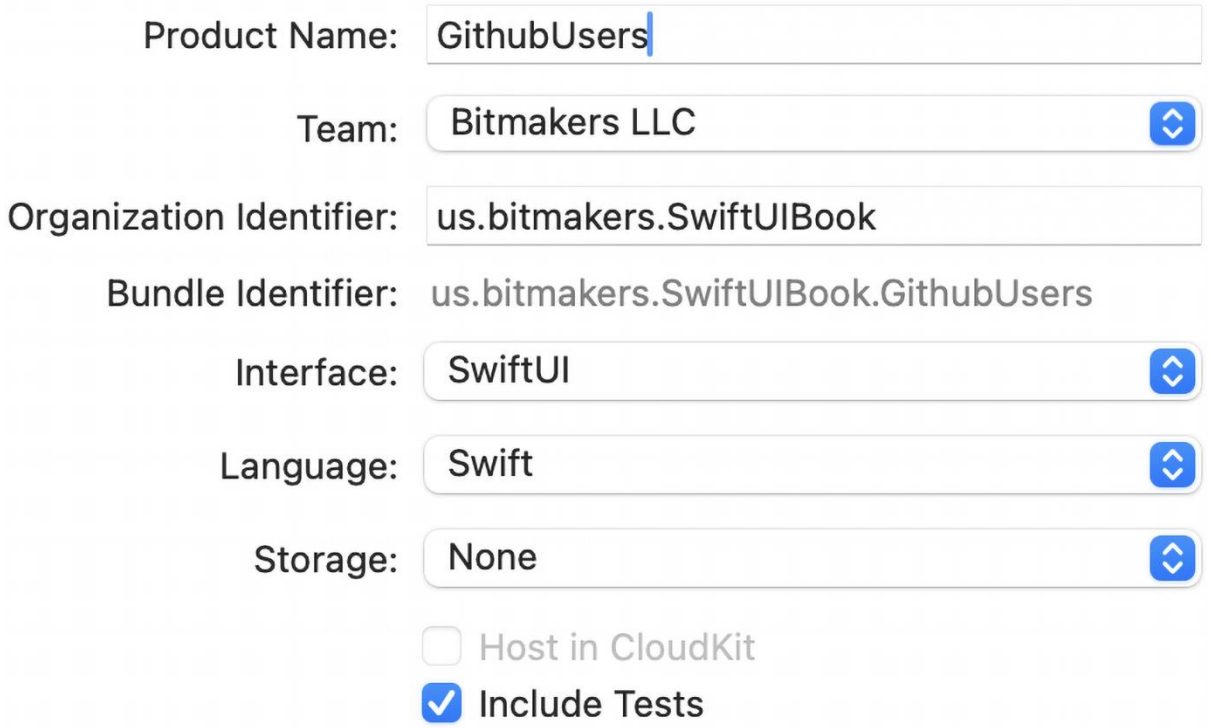

OpenWeather
Weather in your city
Guide
API
Dashboard
Marketplace
Pricing
Maps
Our Initiatives
Partners
Blog
For Business
New Products
Services
API keys
Billing plans
Payments
Block logs
My orders
My profile
Ask a question
You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.
Key
Name
Status
Actions
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Default
Active
Create key
API key name
Generate

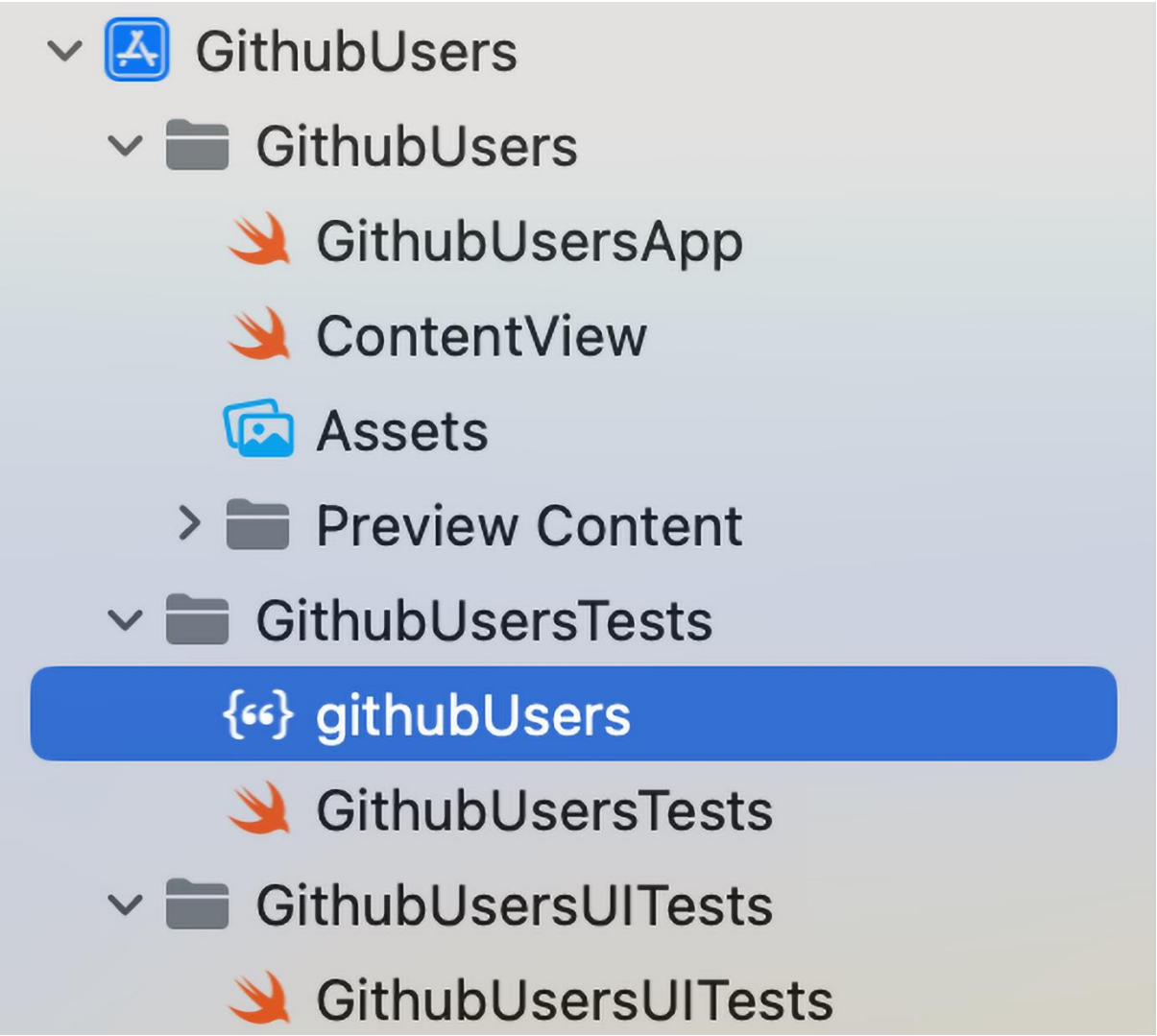

August 10, 2023 at 4:44:14 PM
41°
clear sky
clear sky
August 10, 2023 at 7:00:00 PM
42°
clear sky
August 10, 2023 at 10:00:00 PM
36°
clear sky
August 11, 2023 at 1:00:00 AM
29°
clear sky
August 11, 2023 at 4:00:00 AM
27°
clear sky
August 11, 2023 at 7:00:00 AM
26°
clear sky
August 11, 2023 at 10:00:00 AM
32°
clear sky
August 11, 2023 at 1:00:00 PM
39°
clear sky
August 11, 2023 at 4:00:00 PM
43°
clear sky
August 11, 2023 at 7:00:00 PM
42°

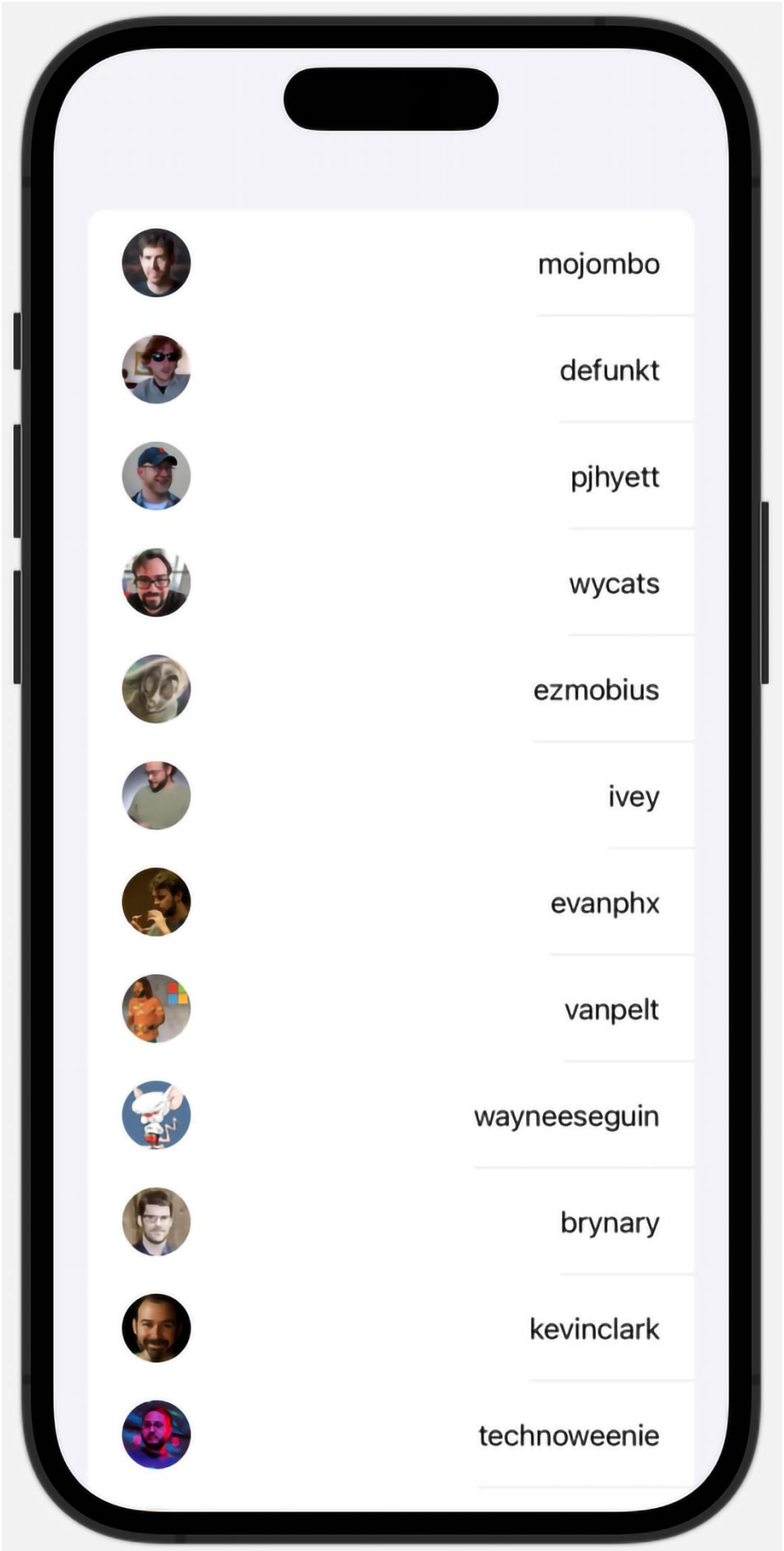

HandleEvents
Print
Breakpoint
Line: 49 Col: 27
Receive subscription: PassthroughSubject
Receive request: unlimited
Received output: New Message!
Print: receive subscription: (PassthroughSubject)
Print: request unlimited
Print: receive value: (New Message!)
Executable
Previews
Filter

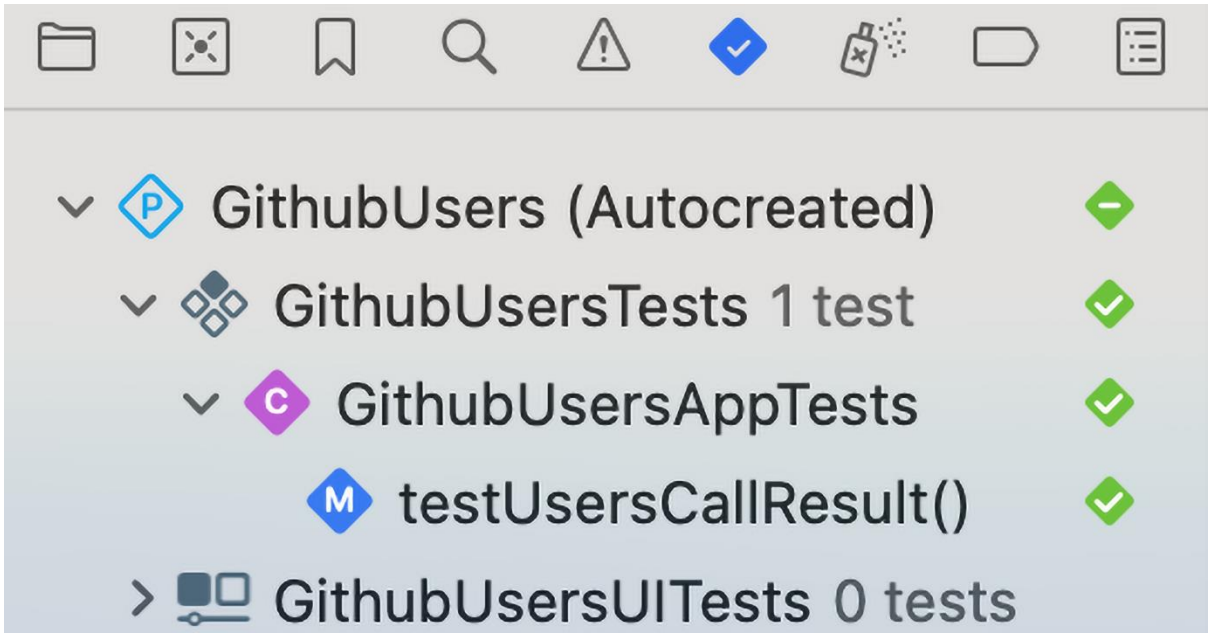

DebuggingCombine
main
DebuggingCombine 〉 iPhone 15 Pro
No Editor
ContentView
0 __pthread_kill
DebuggingCombine 〉 DebuggingCombine 〉 ContentView 〉 breakPoint()
DebuggingCombine Pl...
CPU 1%
Memory 30.5 MB
Disk Zero KB/s
Network Zero KB/s
Thread 1 Queue: c...ad (serial)
0 __pthread_kill
10 Publisher<>.sink(receive...
11 ReactiveObject.breakPoi...
12 closure #5 in closure #1...
13 ___lldb_unnamed_symb...
49 static DebuggingCombi...
50 main
51 start_sim
52 start
Thread 2
11 class ReactiveObject {
34 func printDebug() {
36 subject
37 .print("Print")
38 .sink { _ in }
39 .store(in: &cancellableSet)
40
41 subject.send("New Message!")
42 }
43
44 func breakPoint() {
45 (1..<10).publisher
46 .breakpoint(receiveOutput: { $0 == 7 }) {
47 $0 == .finished
48 }
49 .sink { _ in }
Thread 1: signal SIGTRAP
50 .store(in: &cancellableSet)
51 }
52 }
53


Untitled3
iPhone 13 (15.0) 〉 TestApp
Run 2 of 2 | 00:00:48
Track Filter
All Tracks
Duplicate
0
10.000.000.000
20.000.000.000
30.000.000.000
48.530.357.122
Subscriptions
Instrument
Counter
Will Cancel
Will Complete
Will Fail
Active
Cance...
Cance...
Compl...
Error(The...
Error(The...
Error(The...
Error(The...
Events Over Time
Instrument
Countdown
Counter
Version
Instrument
Version 2
All Subscriptions
Started at
Duration
Name
Status
Source
00:00.132.368 47.87 s Counter Active PublishedOnLane.swift:27 - projectedValue
00:03.916.036 2.19 s Will Complete Completed ViewController.swift:38 - doCompletingSubscription(_:)
00:07.411.912 2.20 s Will Cancel Cancelled ViewController.swift:52 - doCancellingSubscription(_:)
00:16.826.941 2.20 s Will Cancel Cancelled ViewController.swift:52 - doCancellingSubscription(_:)
00:18.789.553 3.30 s Will Fail Error(The operation couldn't... ViewController.swift:24 - doFailingSubscription(_:)
00:23.087.411 3.30 s Will Fail Error(The operation couldn't... ViewController.swift:24 - doFailingSubscription(_:)
00:25.806.148 2.20 s Will Complete Completed ViewController.swift:38 - doCompletingSubscription(_:)
00:27.305.974 2.20 s Will Cancel Cancelled ViewController.swift:52 - doCancellingSubscription(_:)
00:29.073.429 3.30 s Will Fail Error(The operation couldn't... ViewController.swift:24 - doFailingSubscription(_:)
00:37.702.502 3.30 s Will Fail Error(The operation couldn't... ViewController.swift:24 - doFailingSubscription(_:)
Detail Filter

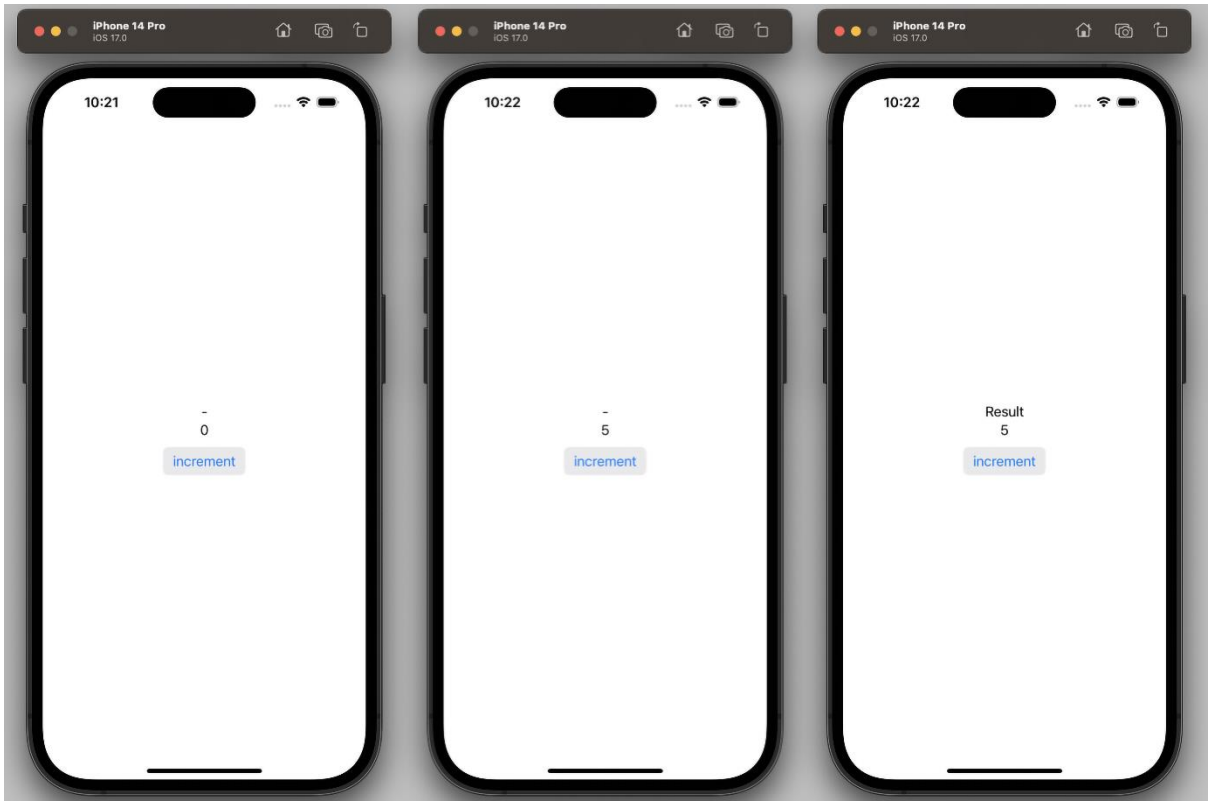

Product Name: GithubUsers
Team: Bitmakers LLC
Organization Identifier: us.bitmakers.SwiftUIBook
Bundle Identifier: us.bitmakers.SwiftUIBook.GithubUsers
Interface: SwiftUI
Language: Swift
Storage: None
Host in CloudKit
Include Tests


GithubUsers
GithubUsers
GithubUsersApp
ContentView
Assets
Preview Content
GithubUsersTests
githubUsers
GithubUsersTests
GithubUsersUITests
GithubUsersUITests


mojombo
defunkt
pjhyett
wycats
ezmobius
ivey
evanphx
vanpelt
wayneeseguin
brynary
kevinclark
technoweenie

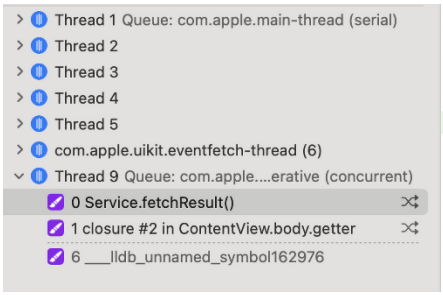

GithubUsers (Autocreated)
GithubUsersTests 1 test
GithubUsersAppTests
testUsersCallResult()
GithubUsersUITests 0 tests

Chapter 12: SwiftUI Concurrency with async await

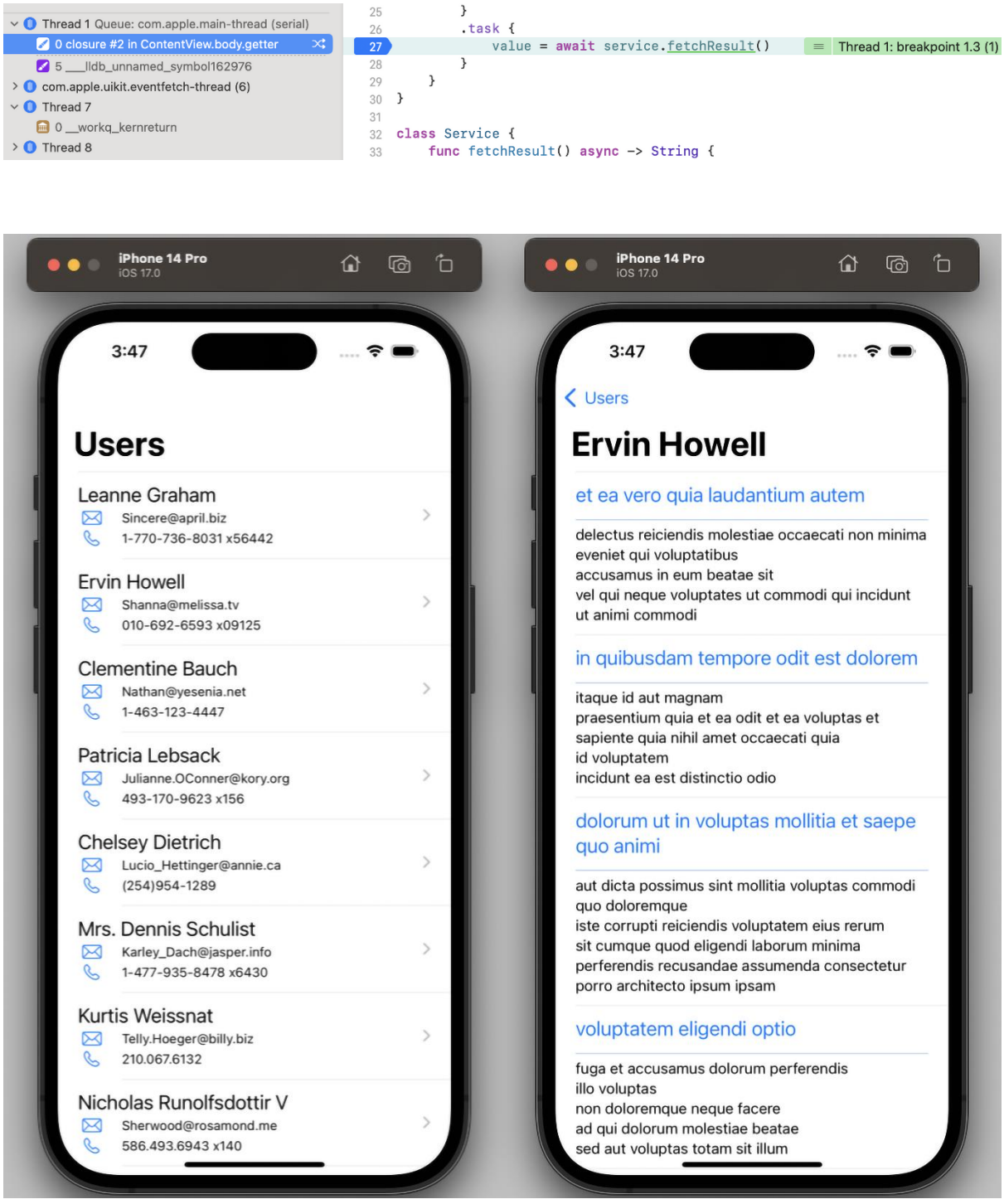


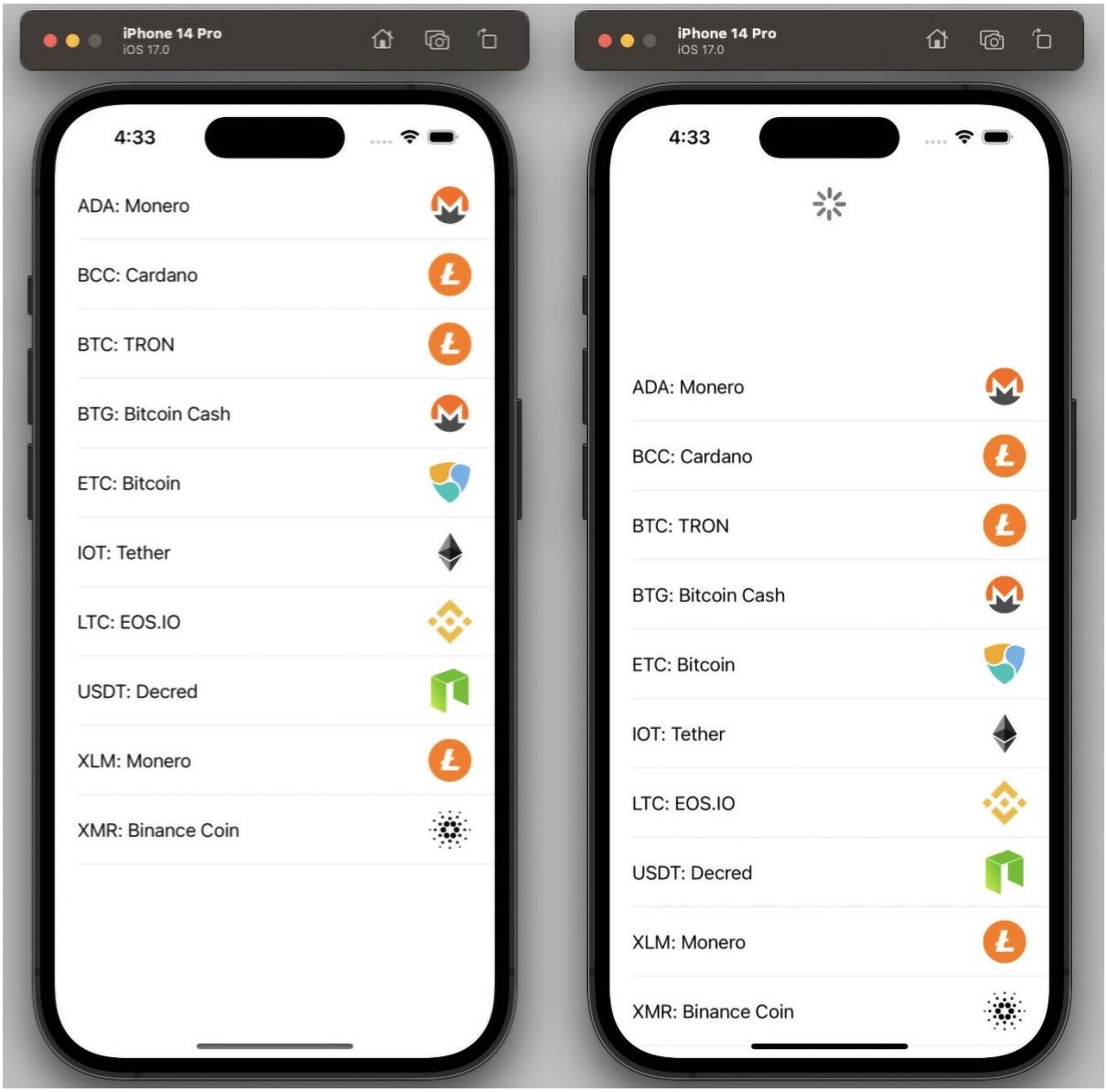

```
22                  Text("increment")
23              }
24              .buttonStyle(.bordered)
25          }
26          .onAppear {
27              
28          }
29      }
30  }
```

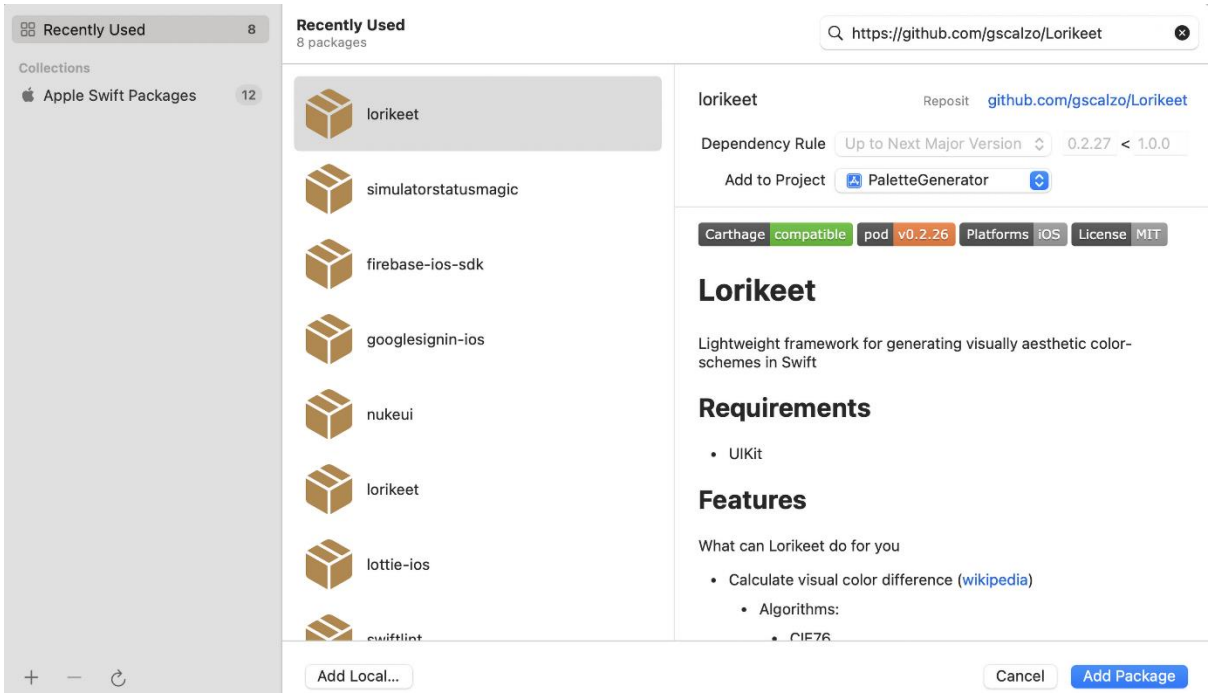
Invalid conversion from 'async' function of type '() async -> ()' to synchronous function type '() -> Void'

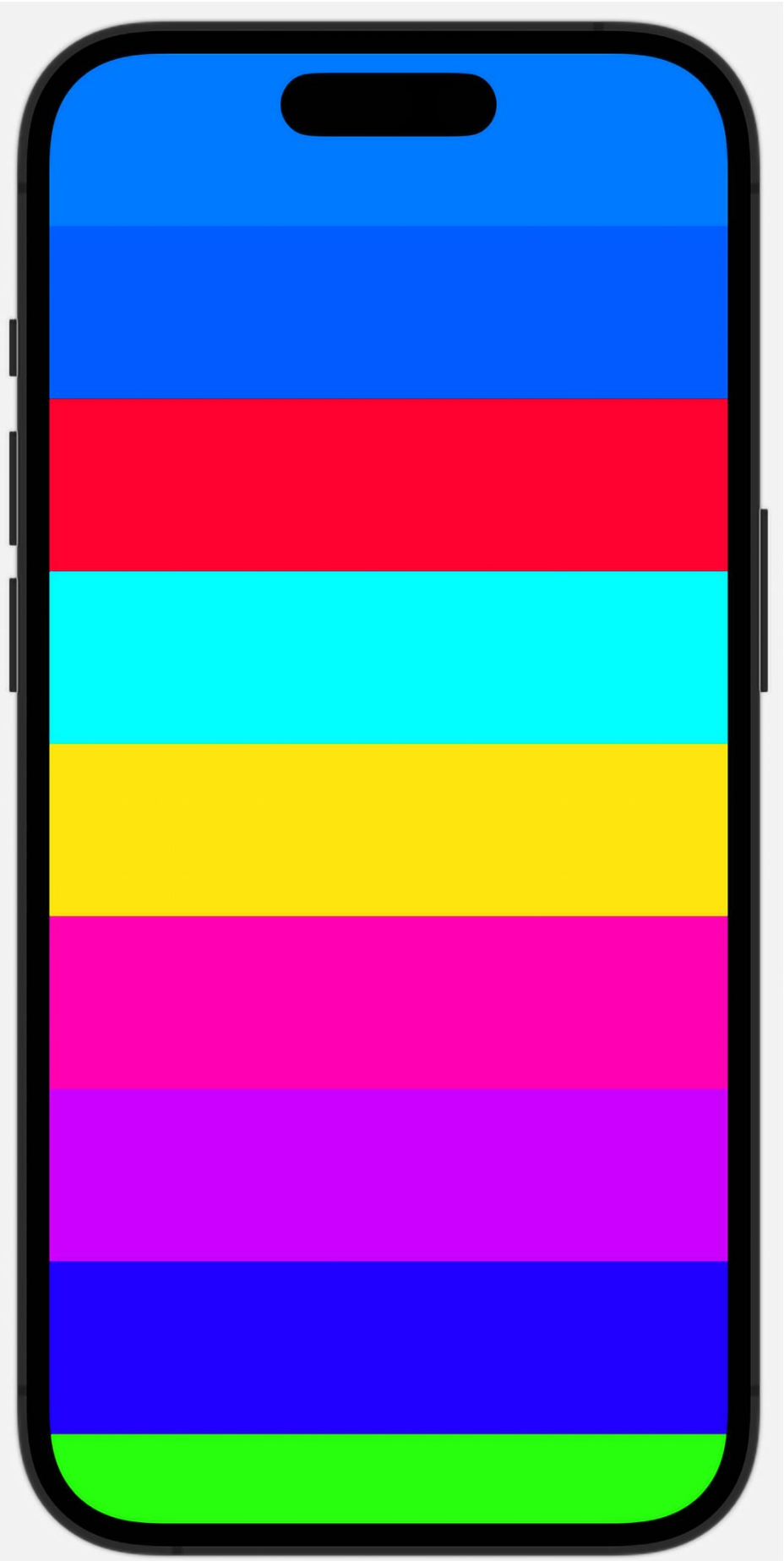



```
30  }
31
32  class Service {
33      func fetchResult() async -> String {
34          try? await Task.sleep(for: .seconds(5))
35          return "Result"                    Thread 9: breakpoint 1.1 (1)
36      }
37  }
38
39  #Preview {
40      ContentView()
41  }
42
```


Thread 1 Queue: com.apple.main-thread (serial)
0 closure #2 in ContentView.body.getter
5 ___lldb_unnamed_symbol162976
com.apple.uikit.eventfetch-thread (6)
Thread 7
0 __workq_kernreturn
Thread 8
25 }
26 .task {
27 value = await service.fetchResult()
28 }
29 }
30 }
31
32 class Service {
33 func fetchResult() async -> String {
Thread 1: breakpoint 1.3 (1)
iPhone 14 Pro
iOS 17.0
3:47
Users
Leanne Graham
Sincere@april.biz
1-770-736-8031 x56442
Ervin Howell
Shanna@melissa.tv
010-692-6593 x09125
Clementine Bauch
Nathan@yesenia.net
1-463-123-4447
Patricia Lebsack
Julianne.OConner@kory.org
493-170-9623 x156
Chelsey Dietrich
Lucio_Hettinger@annie.ca
(254)954-1289
Mrs. Dennis Schulist
Karley_Dach@jasper.info
1-477-935-8478 x6430
Kurtis Weissnat
Telly.Hoeger@billy.biz
210.067.6132
Nicholas Runolfsdottir V
Sherwood@rosamond.me
586.493.6943 x140
iPhone 14 Pro
iOS 17.0
3:47
Users
Ervin Howell
et ea vero quia laudantium autem
delectus reiciendis molestiae occaecati non minima
eveniet qui voluptatibus
accusamus in eum beatae sit
vel qui neque voluptates ut commodi qui incidunt
ut animi commodi
in quibusdam tempore odit est dolorem
itaque id aut magnam
praesentium quia et ea odit et ea voluptas et
sapiente quia nihil amet occaecati quia
id voluptatem
incidunt ea est distinctio odio
dolorum ut in voluptas mollitia et saepe
quo animi
aut dicta possimus sint mollitia voluptas commodi
quo doloremque
iste corrupti reiciendis voluptatem eius rerum
sit cumque quod eligendi laborum minima
perferendis recusandae assumenda consectetur
porro architecto ipsum ipsam
voluptatem eligendi optio
fuga et accusamus dolorum perferendis
illo voluptas
non doloremque neque facere
ad qui dolorum molestiae beatae
sed aut voluptas totam sit illum


iPhone 14 Pro
iOS 17.0
4:33
ADA: Monero
BCC: Cardano
BTC: TRON
BTG: Bitcoin Cash
ETC: Bitcoin
IOT: Tether
LTC: EOS.IO
USDT: Decred
XLM: Monero
XMR: Binance Coin
iPhone 14 Pro
iOS 17.0
4:33
ADA: Monero
BCC: Cardano
BTC: TRON
BTG: Bitcoin Cash
ETC: Bitcoin
IOT: Tether
LTC: EOS.IO
USDT: Decred
XLM: Monero
XMR: Binance Coin


Recently Used 8
Collections
Apple Swift Packages 12
Recently Used
8 packages
https://github.com/gscalzo/Lorikeet
lorikeet
simulatorstatusmagic
firebase-ios-sdk
googlesignin-ios
nukeui
lorikeet
lottie-ios
swiftlint
lorikeet
Reposit
github.com/gscalzo/Lorikeet
Dependency Rule
Up to Next Major Version
0.2.27 < 1.0.0
Add to Project
PaletteGenerator
Carthage compatible
pod v0.2.26
Platforms iOS
License MIT
Lorikeet
Lightweight framework for generating visually aesthetic color-schemes in Swift
Requirements
UIKit
Features
What can Lorikeet do for you
Calculate visual color difference (wikipedia)
Algorithms:
CIE76
Add Local...
Cancel
Add Package



Sign up to download unlimited full resolution media

Sign up | Log in

Continue with Google

Continue with Facebook

or

* Username

e.g. maria93

* Email

example@gmail.com

* Password

Join

Search Images

`https://pixabay.com/api/` GET

Parameters

key (required)	*str*	Your API key: [redacted]
q	*str*	A URL encoded search term. If omitted, *all images* are returned. This value may not exceed 100 characters. Example: "yellow+flower"
lang	*str*	Language code of the language to be searched in. Accepted values: cs, da, de, en, es, fr, id, it, hu, nl, no, pl, pt, ro, sk, fi, sv, tr, vi, th, bg, ru, el, ja, ko, zh Default: "en"
id	*str*	Retrieve individual images by ID.
image_type	*str*	Filter results by image type. Accepted values: "all", "photo", "illustration", "vector" Default: "all"
orientation	*str*	Whether an image is wider than it is tall, or taller than it is wide. Accepted values: "all", "horizontal", "vertical" Default: "all"



godafoss iceland waterfall

by 12019 via Pixabay

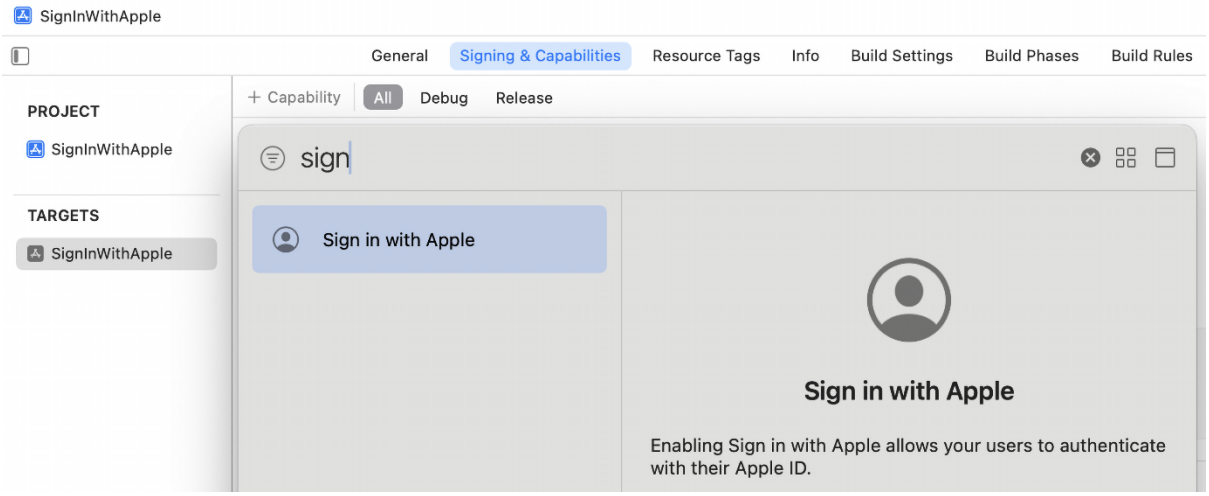


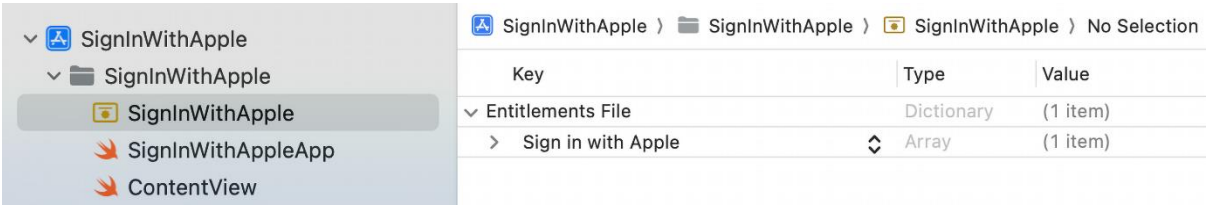
niagara falls waterfall water power

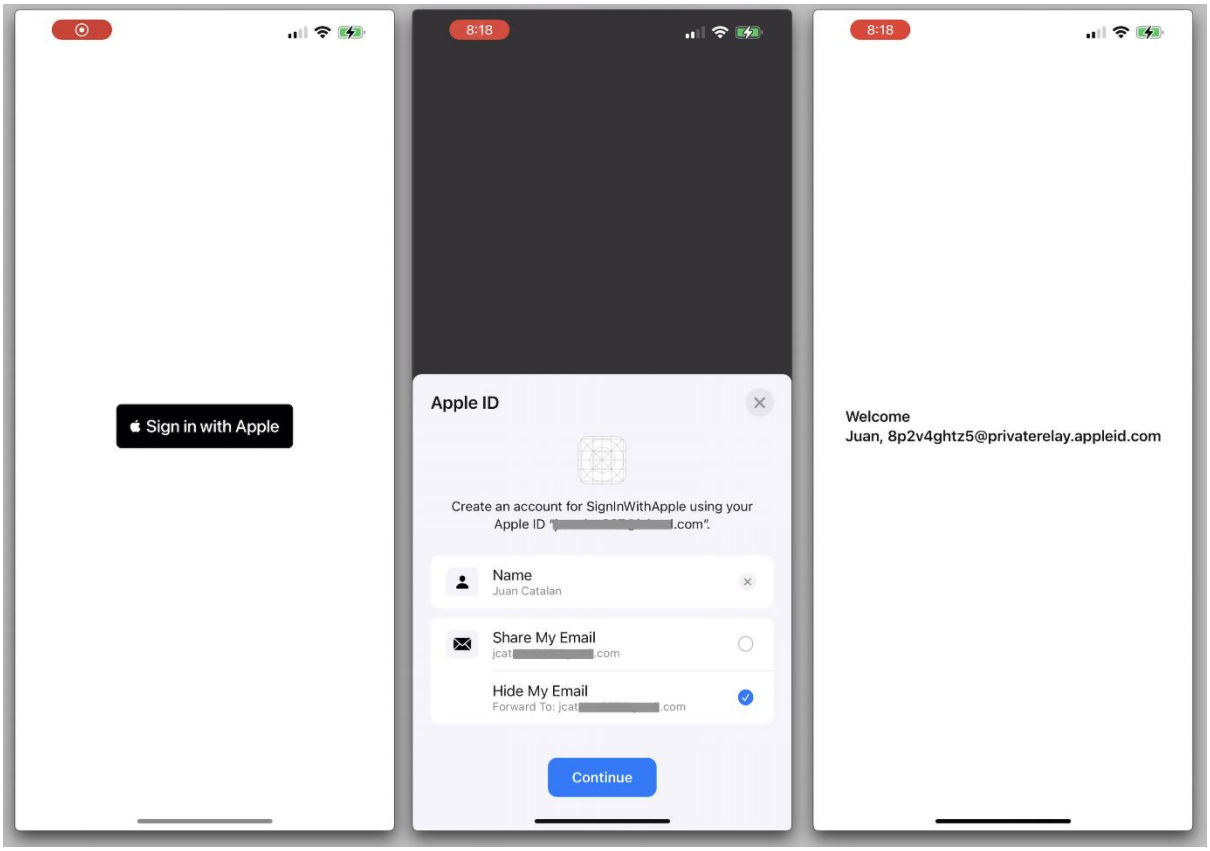
by urformat via Pixabay

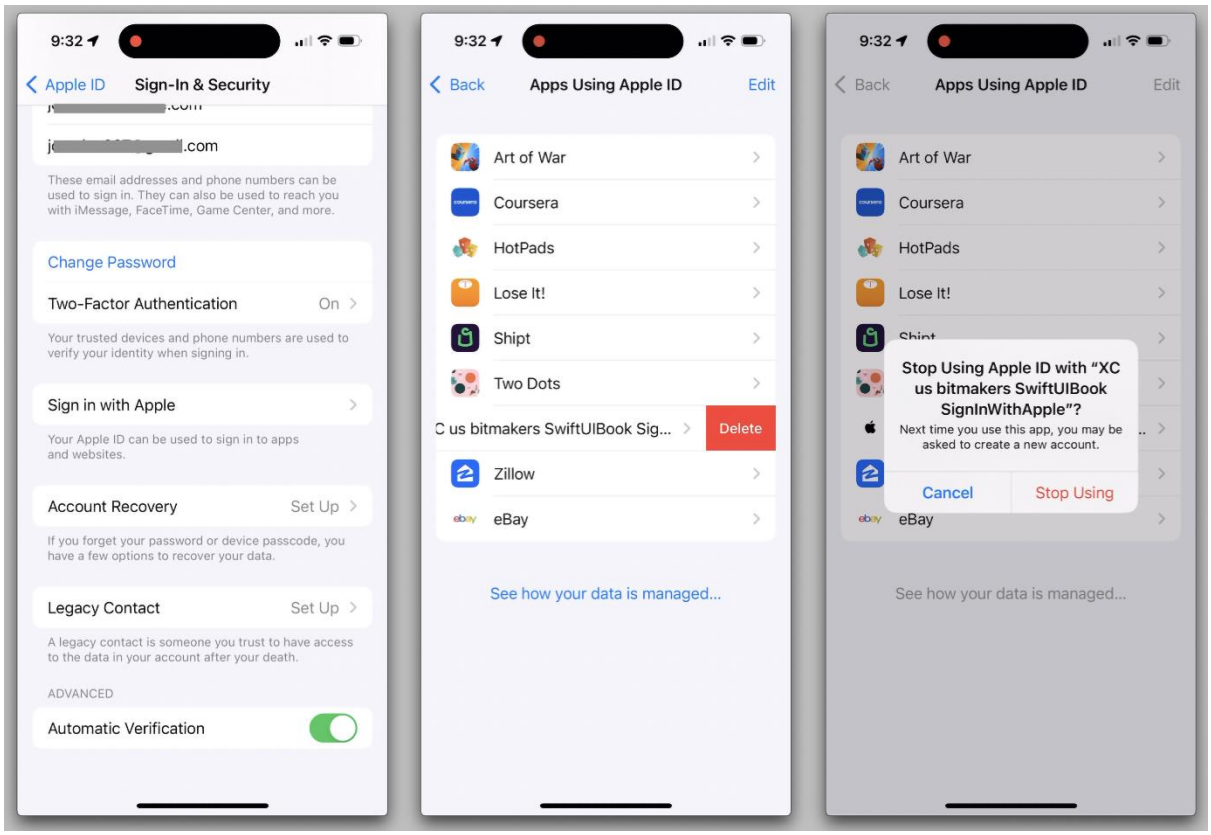


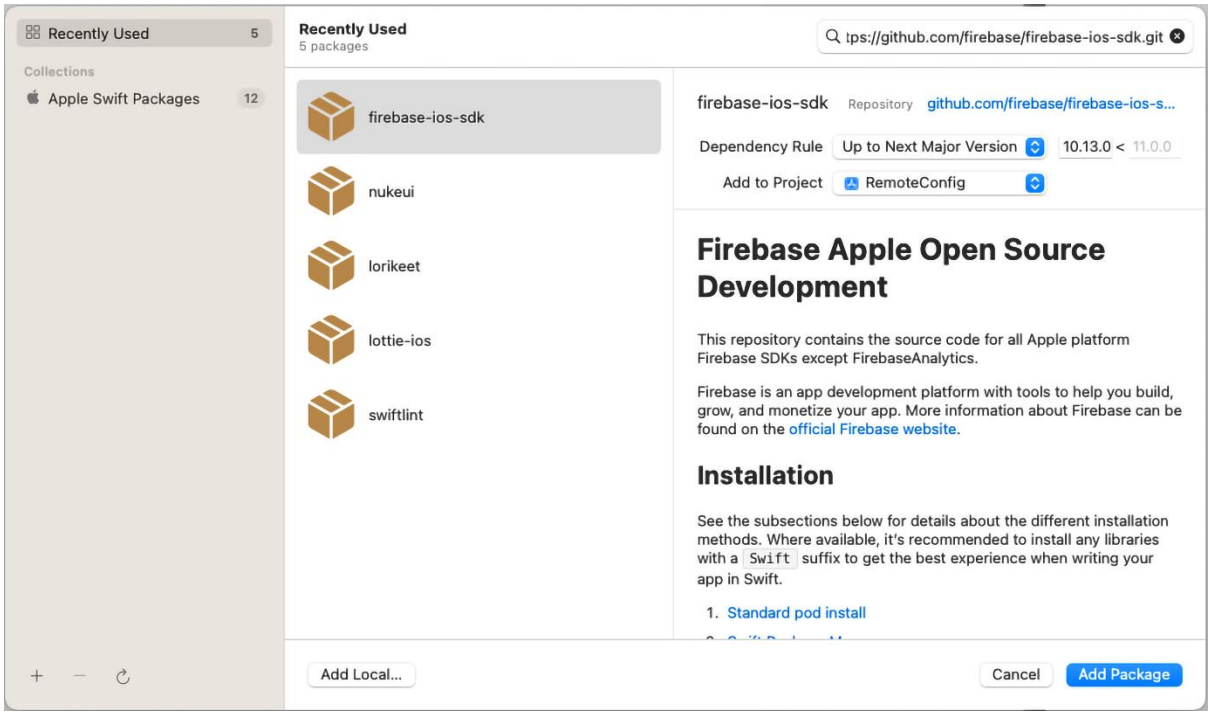
Chapter 13: Handling Authentication and Firebase with SwiftUI

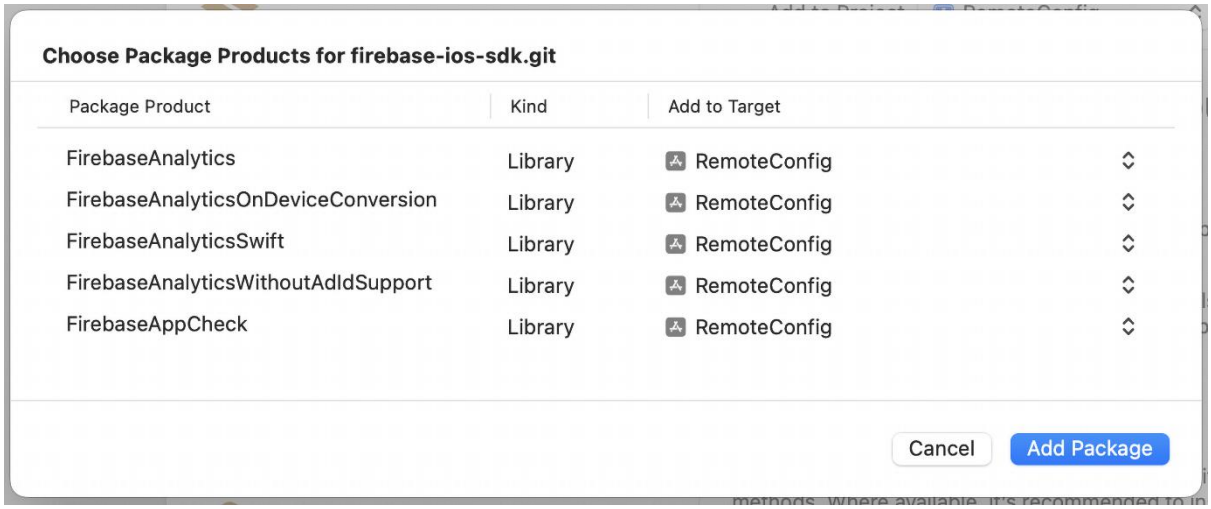


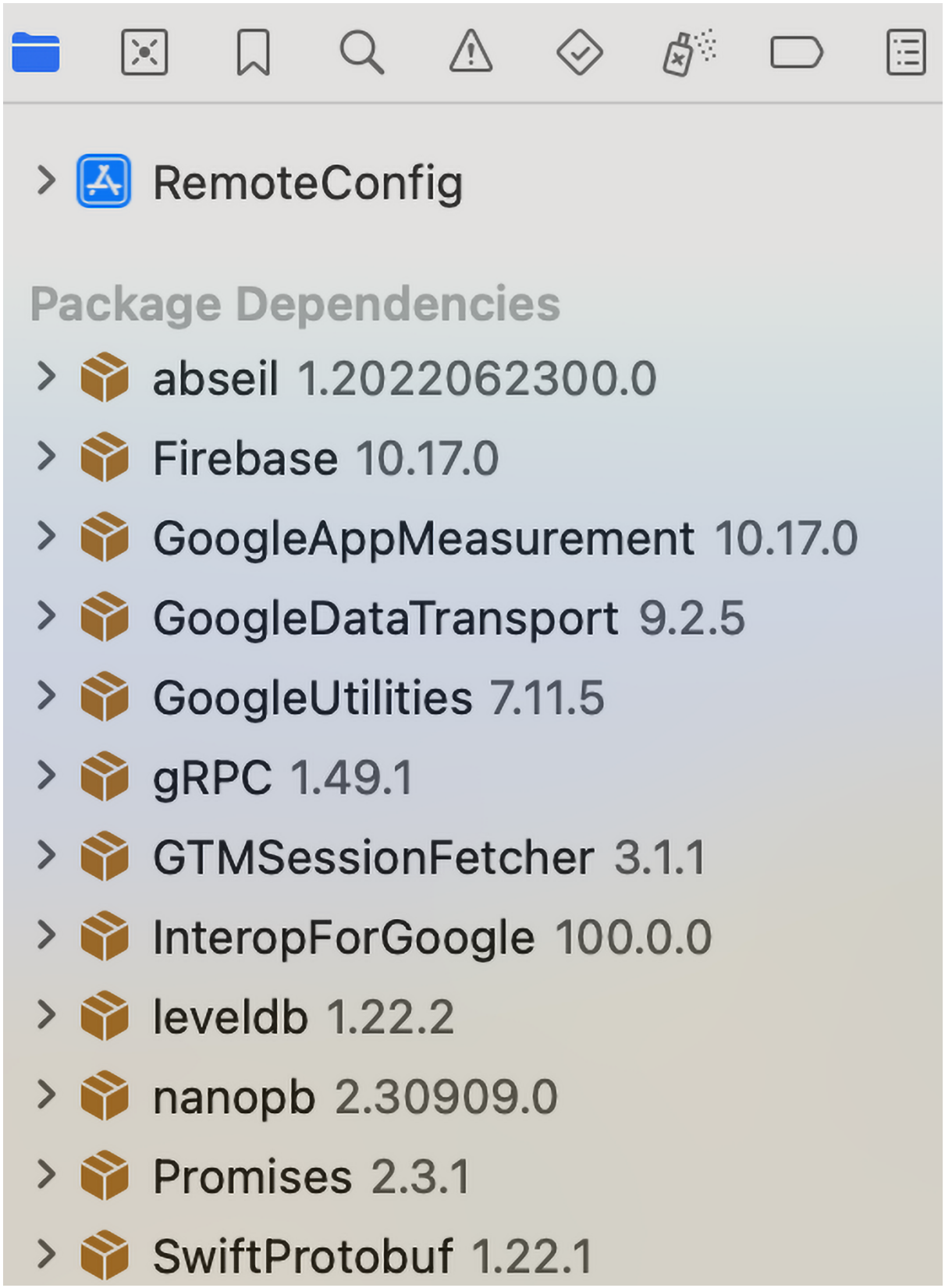


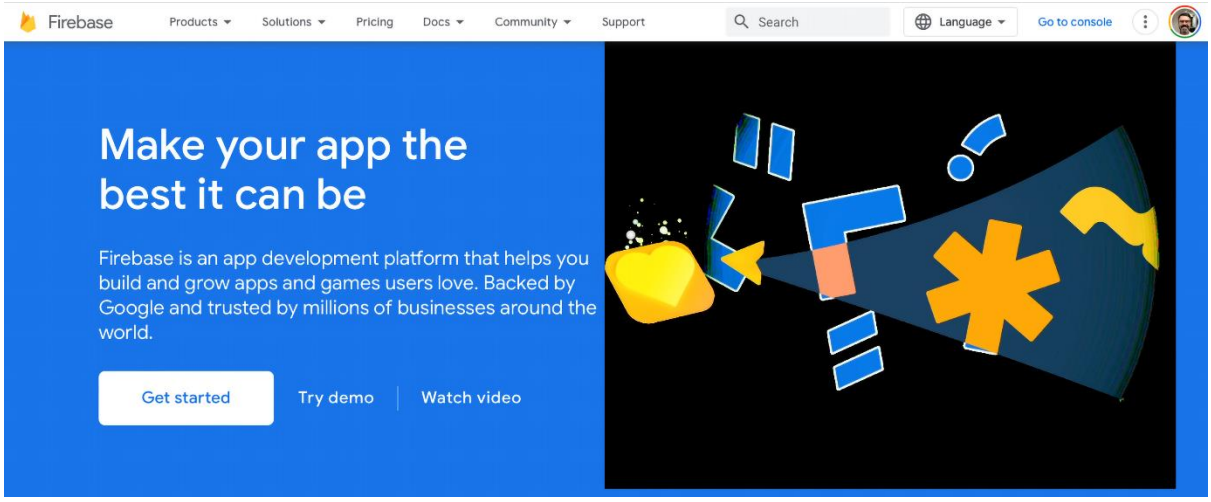


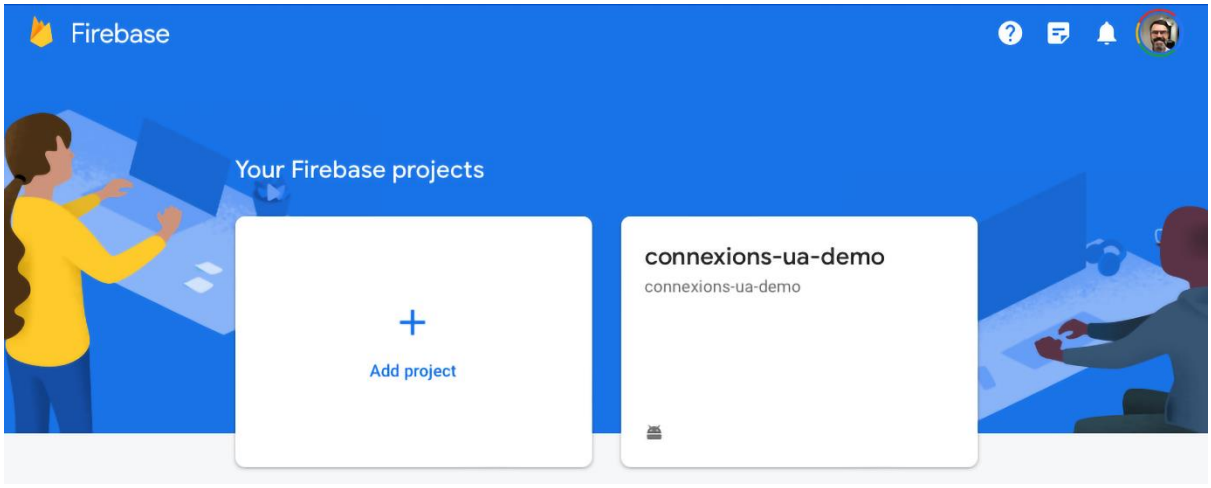

9:32
Apple ID
Sign-In & Security
.com
These email addresses and phone numbers can be used to sign in. They can also be used to reach you with iMessage, FaceTime, Game Center, and more.
Change Password
Two-Factor Authentication
On
Your trusted devices and phone numbers are used to verify your identity when signing in.
Sign in with Apple
Your Apple ID can be used to sign in to apps and websites.
Account Recovery
Set Up
If you forget your password or device passcode, you have a few options to recover your data.
Legacy Contact
Set Up
A legacy contact is someone you trust to have access to the data in your account after your death.
ADVANCED
Automatic Verification
9:32
Back
Apps Using Apple ID
Edit
Art of War
Coursera
HotPads
Lose It!
Shipt
Two Dots
C us bitmakers SwiftUIBook Sig...
Delete
Zillow
eBay
See how your data is managed...
9:32
Back
Apps Using Apple ID
Edit
Art of War
Coursera
HotPads
Lose It!
Stop Using Apple ID with "XC us bitmakers SwiftUIBook SignInWithApple"?
Next time you use this app, you may be asked to create a new account.
Cancel
Stop Using
eBay
See how your data is managed...

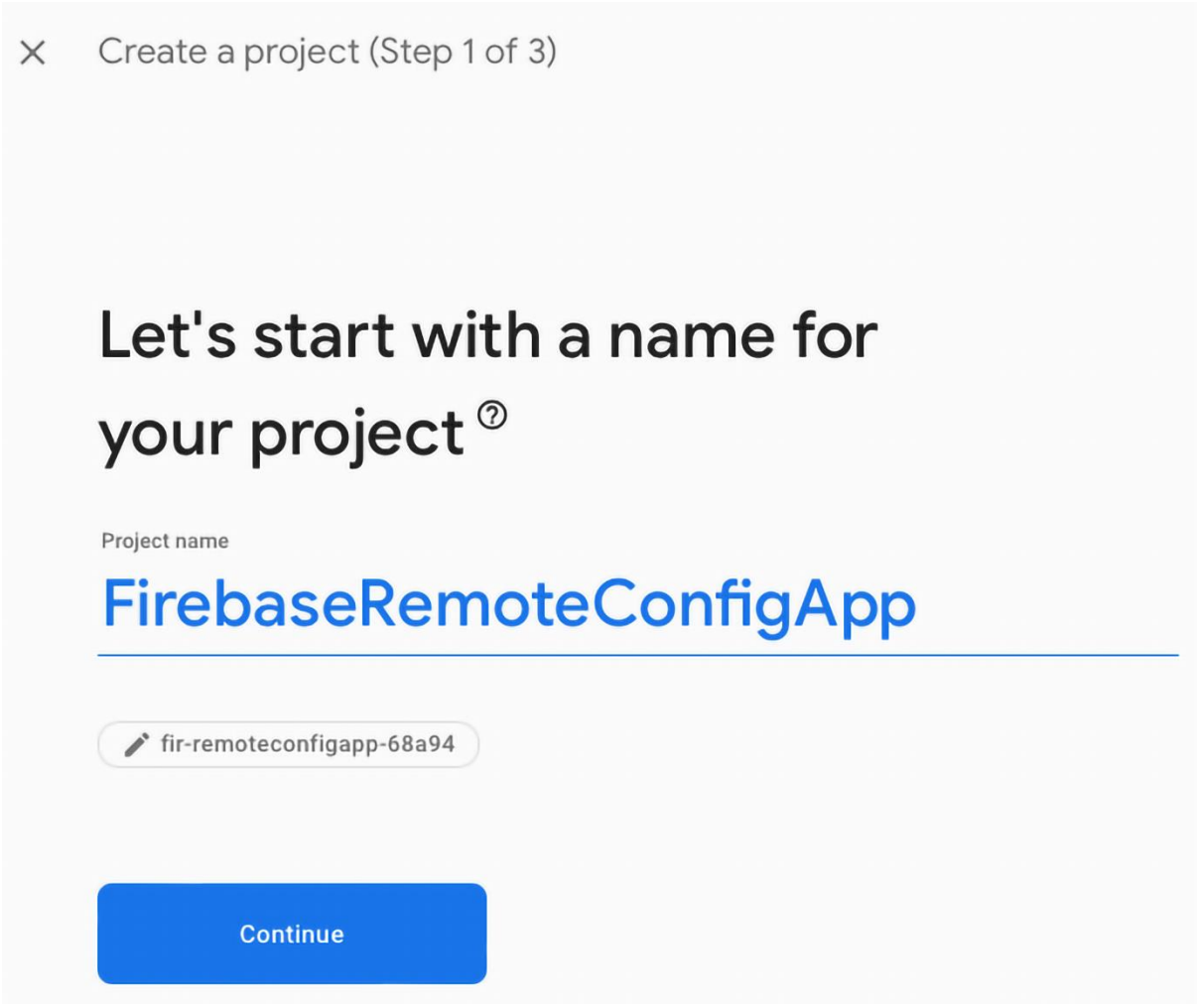

Recently Used
5
Collections
Apple Swift Packages
12
Recently Used
5 packages
tps://github.com/firebase/firebase-ios-sdk.git
firebase-ios-sdk
nukeui
lorikeet
lottie-ios
swiftlint
firebase-ios-sdk
Repository
github.com/firebase/firebase-ios-s...
Dependency Rule
Up to Next Major Version
10.13.0 < 11.0.0
Add to Project
RemoteConfig
Firebase Apple Open Source Development
This repository contains the source code for all Apple platform Firebase SDKs except FirebaseAnalytics.
Firebase is an app development platform with tools to help you build, grow, and monetize your app. More information about Firebase can be found on the official Firebase website.
Installation
See the subsections below for details about the different installation methods. Where available, it's recommended to install any libraries with a Swift suffix to get the best experience when writing your app in Swift.
1. Standard pod install
Add Local...
Cancel
Add Package

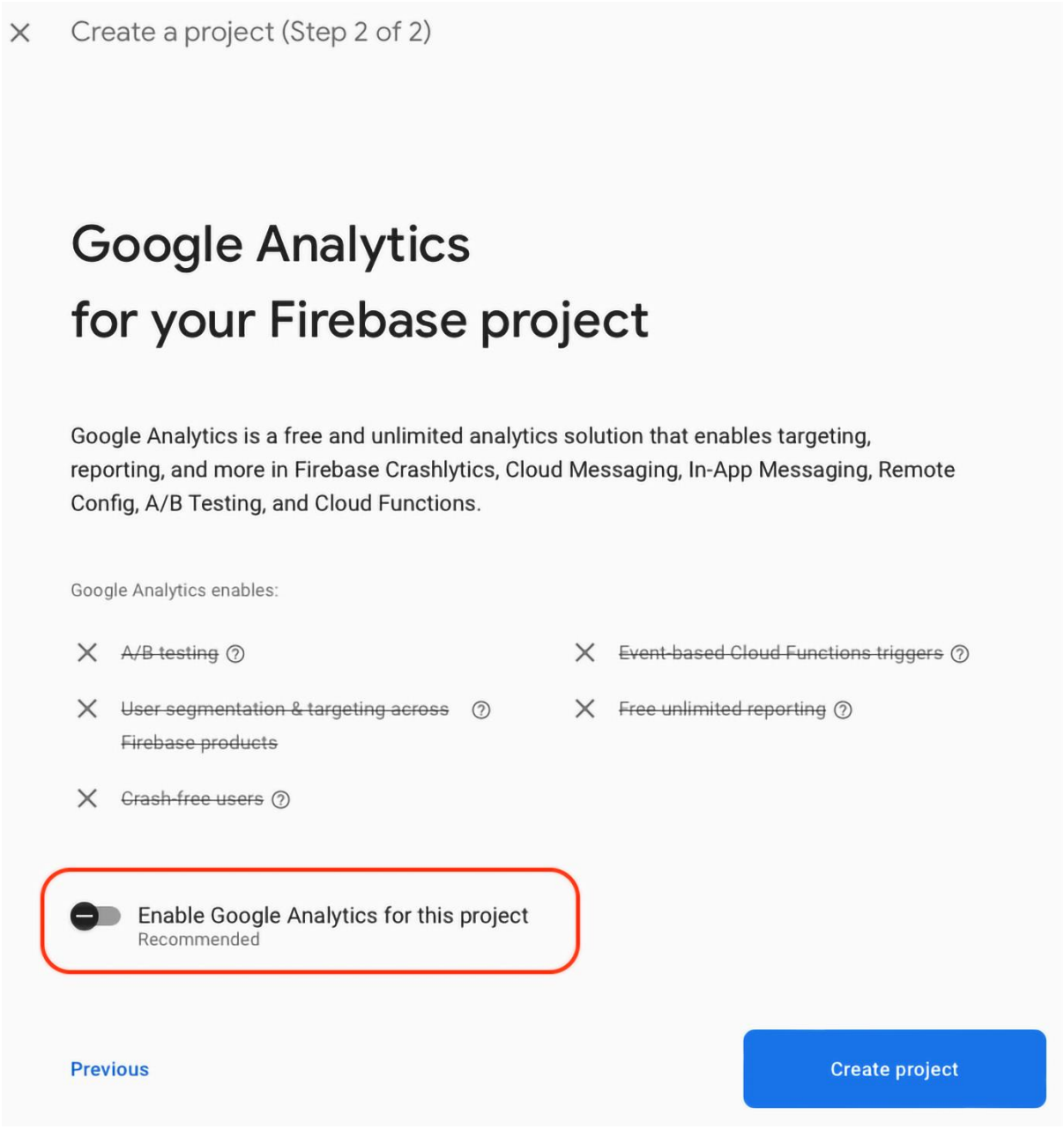

Choose Package Products for firebase-ios-sdk.git
Package Product
Kind
Add to Target
FirebaseAnalytics
Library
RemoteConfig
FirebaseAnalyticsOnDeviceConversion
Library
RemoteConfig
FirebaseAnalyticsSwift
Library
RemoteConfig
FirebaseAnalyticsWithoutAdIdSupport
Library
RemoteConfig
FirebaseAppCheck
Library
RemoteConfig
Cancel
Add Package

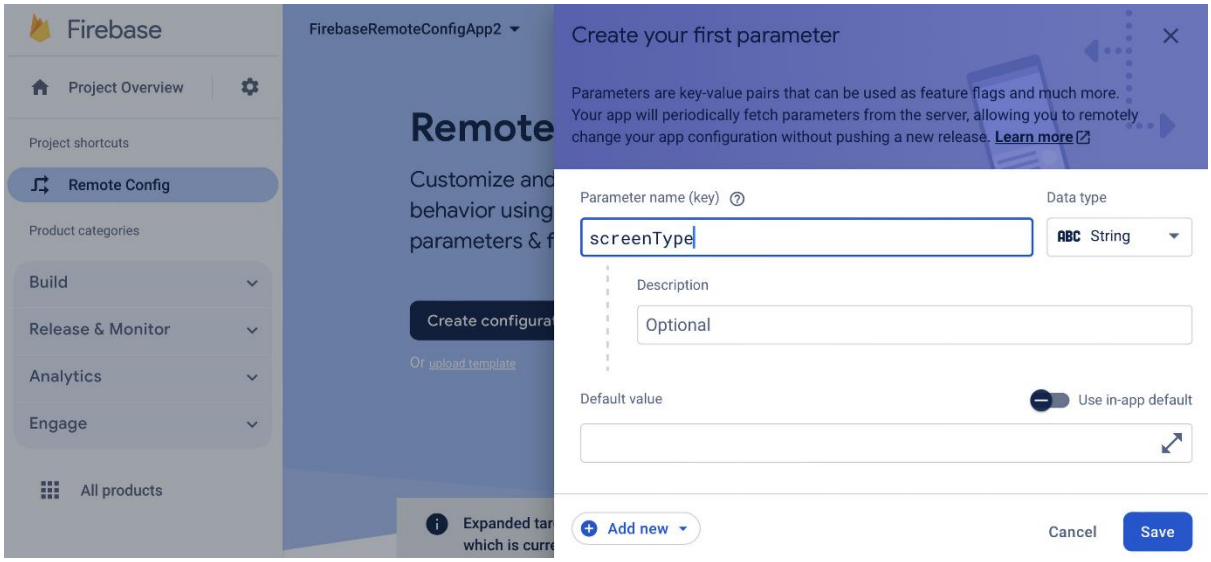

RemoteConfig
Package Dependencies
abseil 1.2022062300.0
Firebase 10.17.0
GoogleAppMeasurement 10.17.0
GoogleDataTransport 9.2.5
GoogleUtilities 7.11.5
gRPC 1.49.1
GTMSessionFetcher 3.1.1
InteropForGoogle 100.0.0
leveldb 1.22.2
nanopb 2.30909.0
Promises 2.3.1
SwiftProtobuf 1.22.1

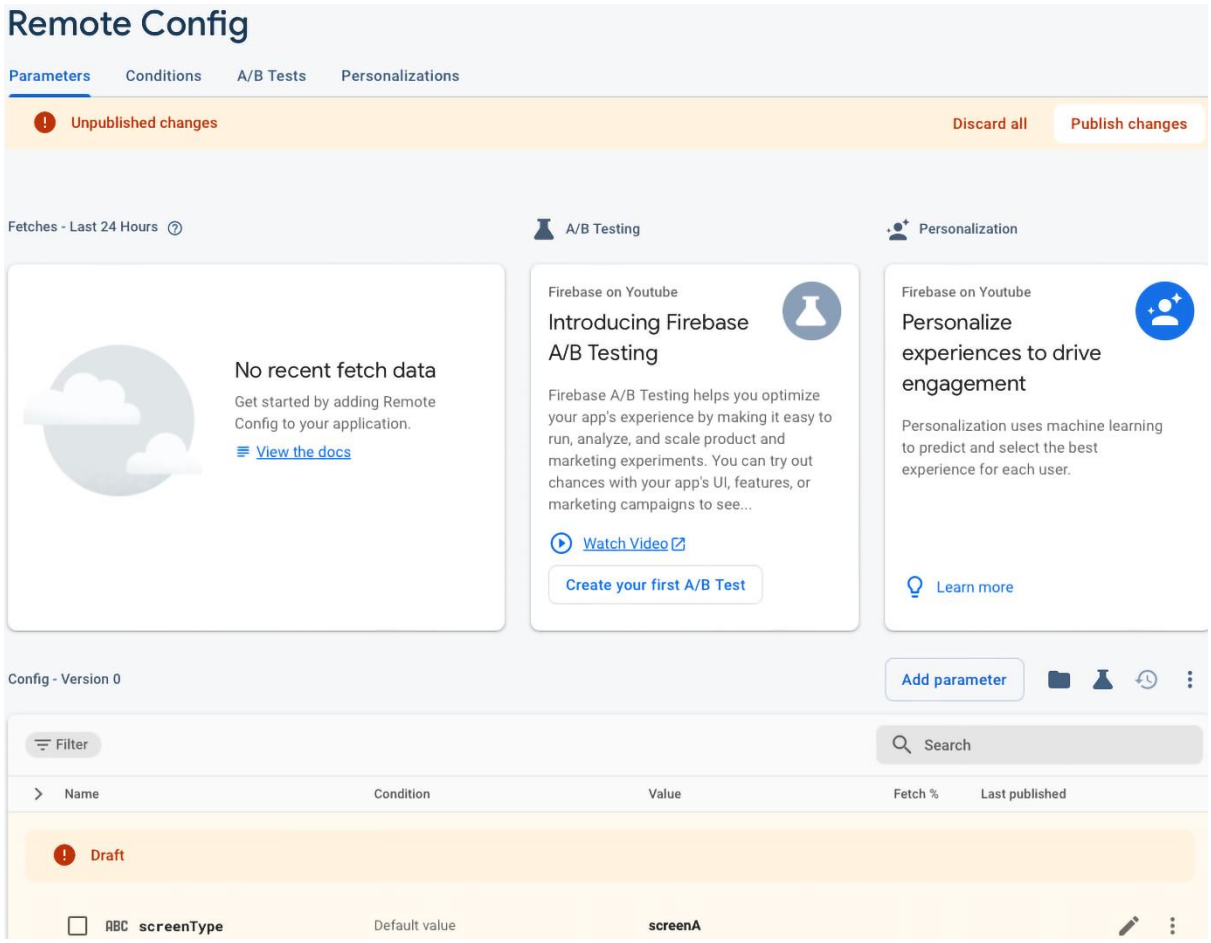

Firebase
Products
Solutions
Pricing
Docs
Community
Support
Search
Language
Go to console
Make your app the best it can be
Firebase is an app development platform that helps you build and grow apps and games users love. Backed by Google and trusted by millions of businesses around the world.
Get started
Try demo
Watch video

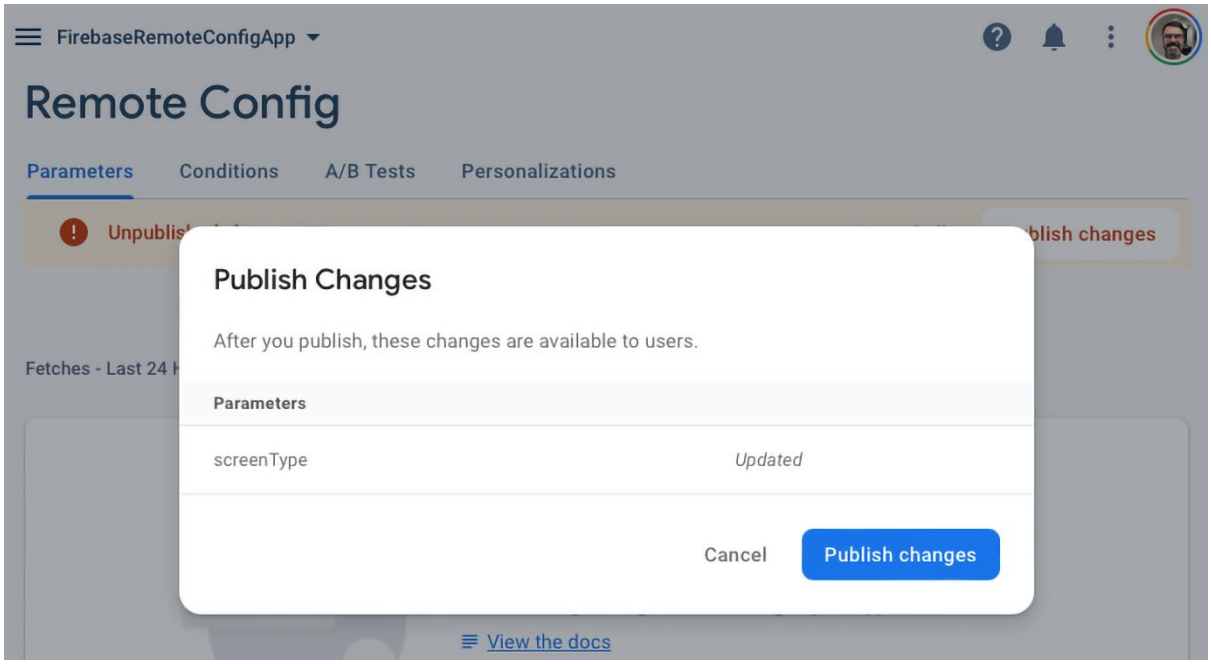

Firebase
Your Firebase projects
Add project
connexions-ua-demo
connexions-ua-demo

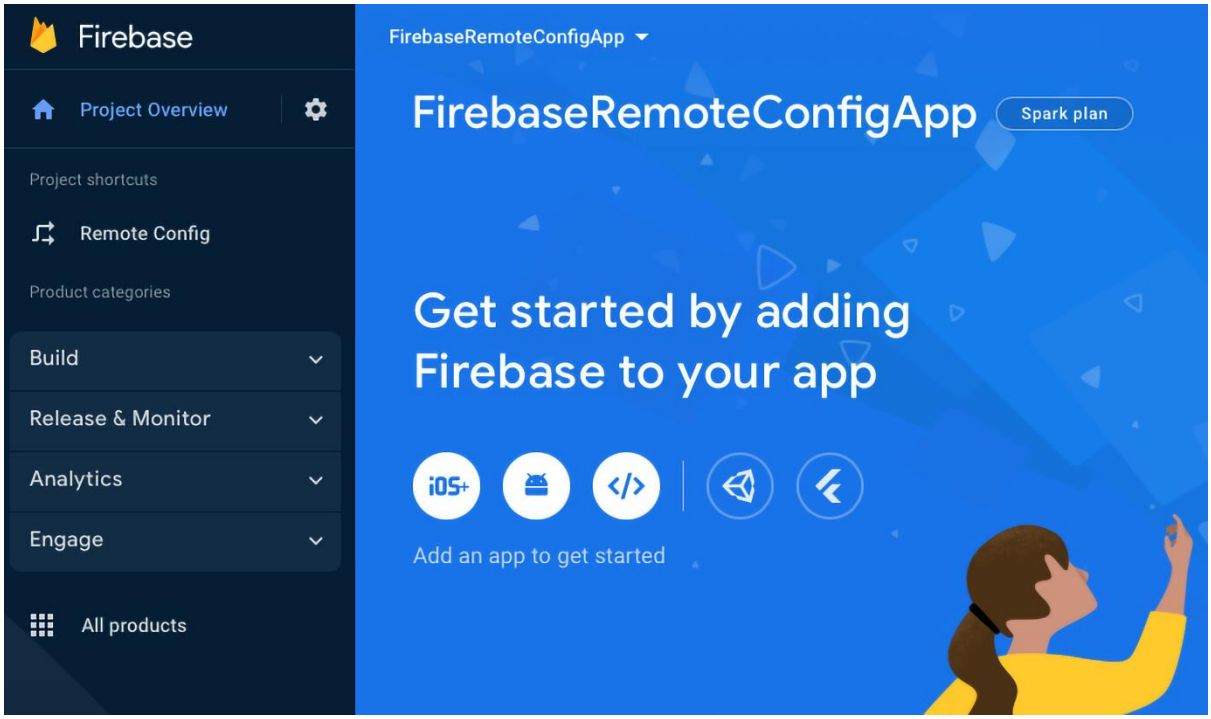

Create a project (Step 1 of 3)
Let's start with a name for your project
Project name
FirebaseRemoteConfigApp
fir-remoteconfigapp-68a94
Continue

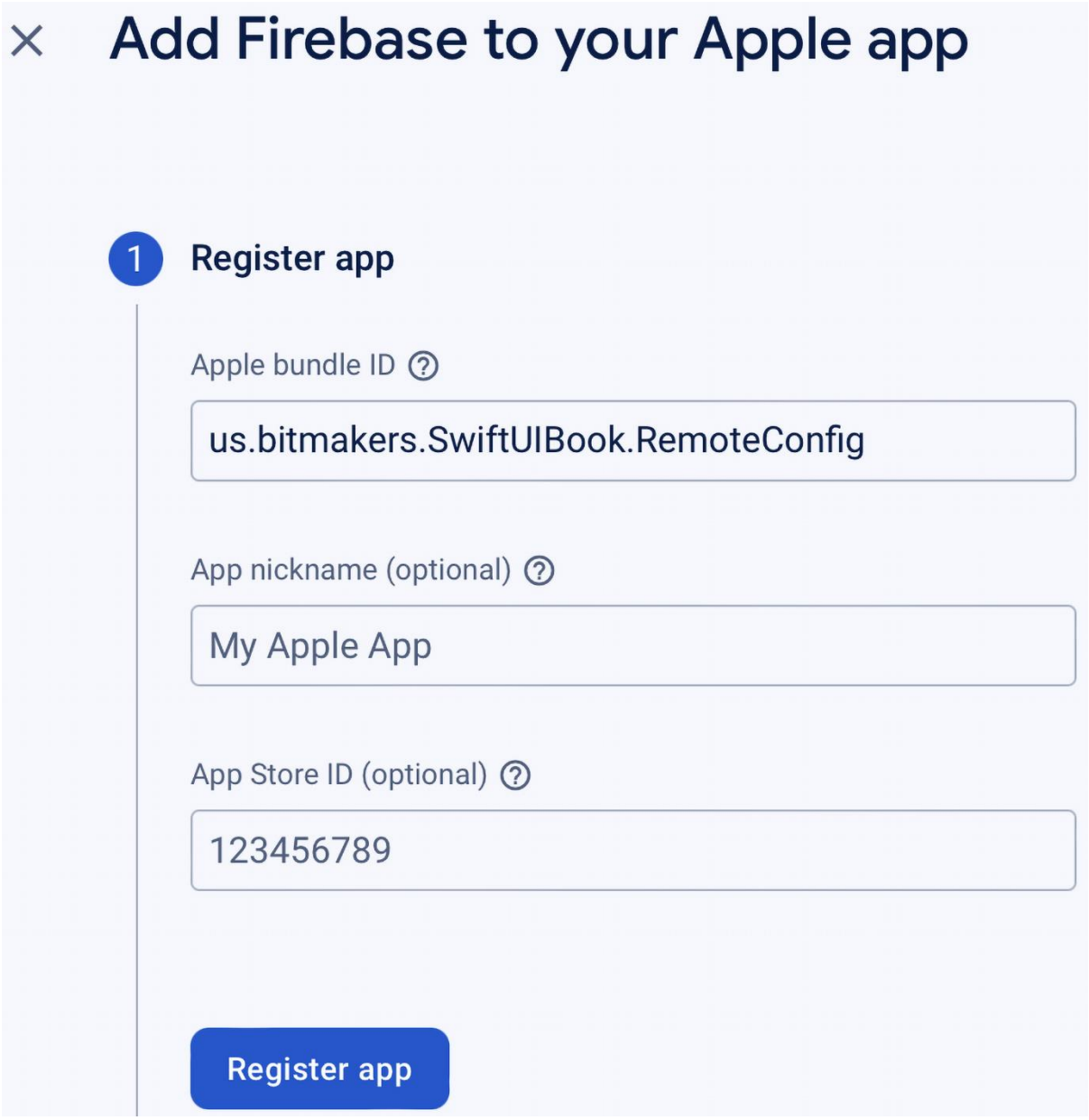

Create a project (Step 2 of 2)
Google Analytics
for your Firebase project
Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, and Cloud Functions.
Google Analytics enables:
A/B testing
Event-based Cloud Functions triggers
User segmentation & targeting across Firebase products
Free unlimited reporting
Crash-free users
Enable Google Analytics for this project
Recommended
Previous
Create project


Firebase
Project Overview
Project shortcuts
Remote Config
Product categories
Build
Release & Monitor
Analytics
Engage
All products
FirebaseRemoteConfigApp2
Remote
Customize and
behavior using
parameters & f
Create configura
Or upload template
Expanded tar
which is curre
Create your first parameter
Parameters are key-value pairs that can be used as feature flags and much more. Your app will periodically fetch parameters from the server, allowing you to remotely change your app configuration without pushing a new release. Learn more
Parameter name (key)
screenType
Data type
String
Description
Optional
Default value
Use in-app default
Add new
Cancel
Save


Remote Config
Parameters
Conditions
A/B Tests
Personalizations
Unpublished changes
Discard all
Publish changes
Fetches - Last 24 Hours
A/B Testing
Personalization
No recent fetch data
Get started by adding Remote Config to your application.
View the docs
Firebase on Youtube
Introducing Firebase A/B Testing
Firebase A/B Testing helps you optimize your app's experience by making it easy to run, analyze, and scale product and marketing experiments. You can try out chances with your app's UI, features, or marketing campaigns to see...
Watch Video
Create your first A/B Test
Firebase on Youtube
Personalize experiences to drive engagement
Personalization uses machine learning to predict and select the best experience for each user.
Learn more
Config - Version 0
Add parameter
Filter
Search
Name
Condition
Value
Fetch %
Last published
Draft
ABC screenType
Default value
screenA


FirebaseRemoteConfigApp
Remote Config
Parameters
Conditions
A/B Tests
Personalizations
Publish Changes
After you publish, these changes are available to users.
Parameters
screenType
Updated
Cancel
Publish changes
View the docs


Firebase
Project Overview
Project shortcuts
Remote Config
Product categories
Build
Release & Monitor
Analytics
Engage
All products
FirebaseRemoteConfigApp
FirebaseRemoteConfigApp
Spark plan
Get started by adding
Firebase to your app
iOS+
Add an app to get started


Add Firebase to your Apple app
1
Register app
Apple bundle ID
us.bitmakers.SwiftUIBook.RemoteConfig
App nickname (optional)
My Apple App
App Store ID (optional)
123456789
Register app

Add Firebase to your Apple app

✓ Register app

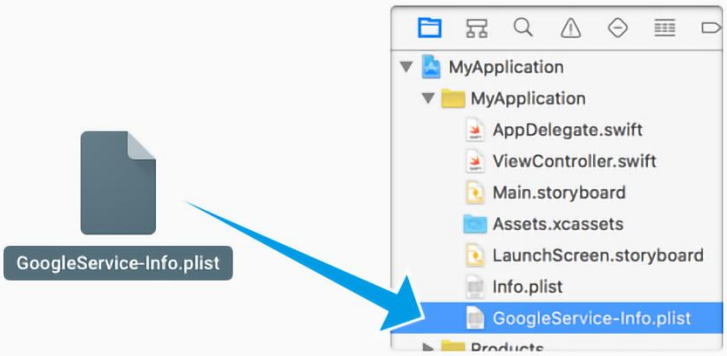
Apple bundle ID: us.bitmakers.SwiftUIBook.RemoteConfig

2 **Download config file**

Instructions for Xcode below | Unity C++

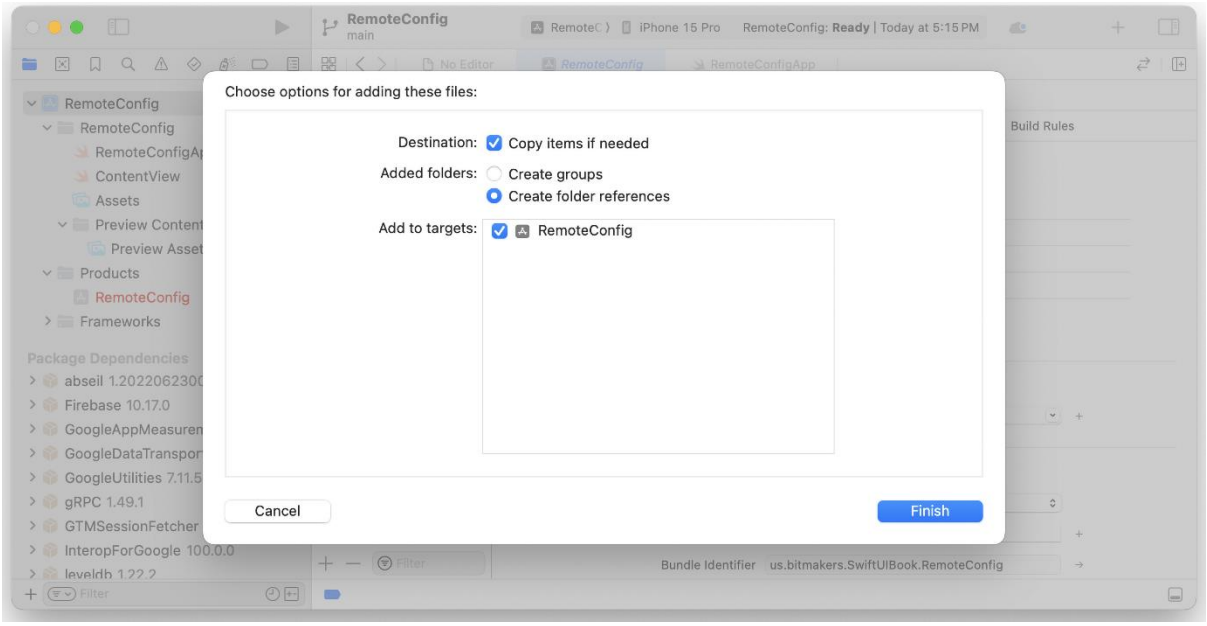
Download GoogleService-Info.plist

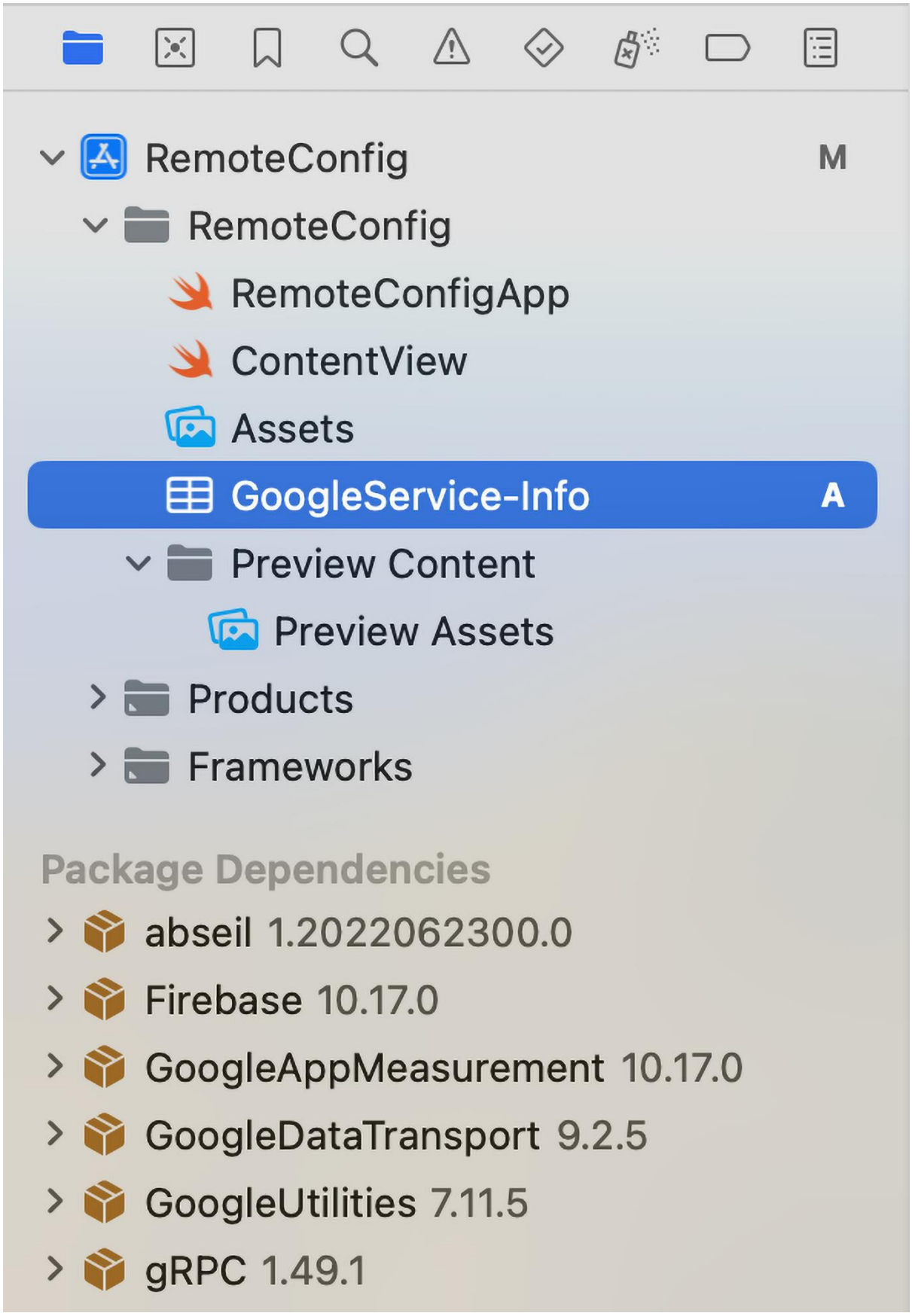
Move the GoogleService-Info.plist file you just downloaded into the root of your Xcode project and add it to all targets.

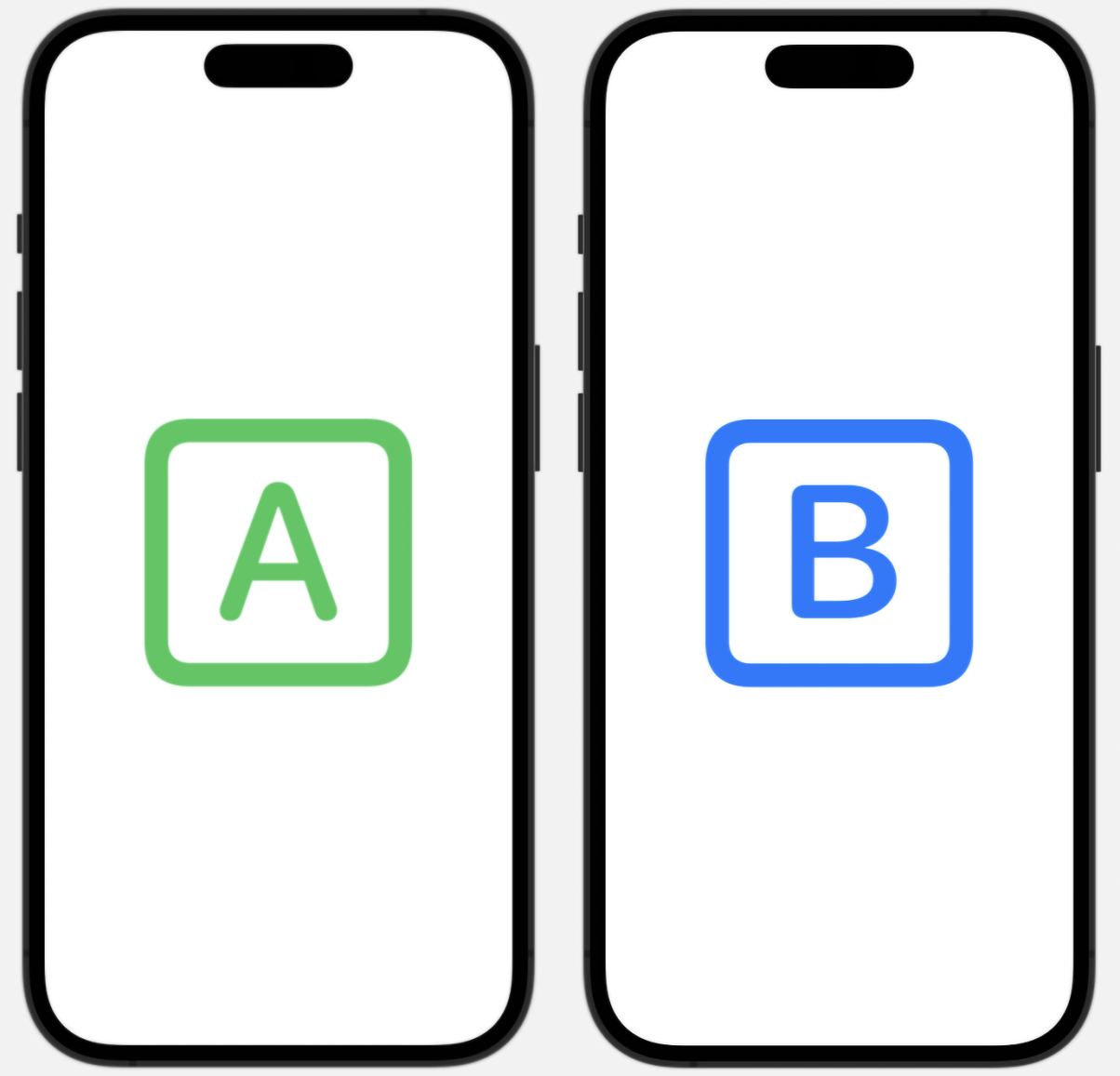


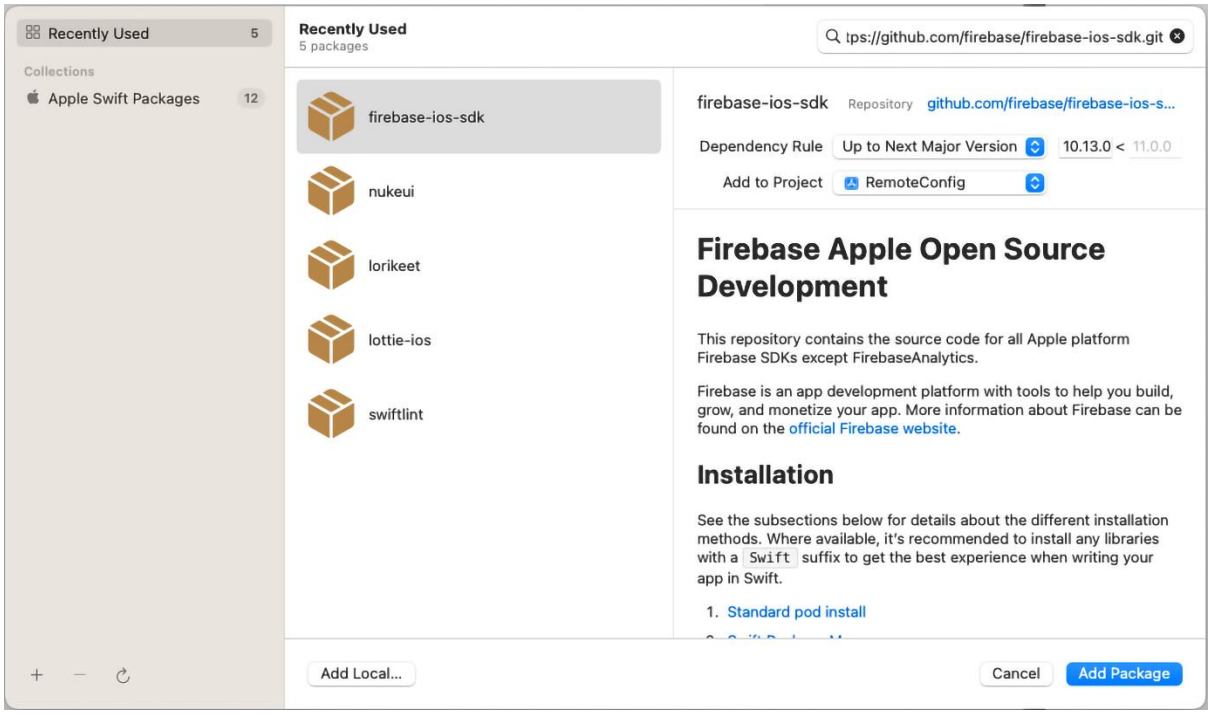
Next

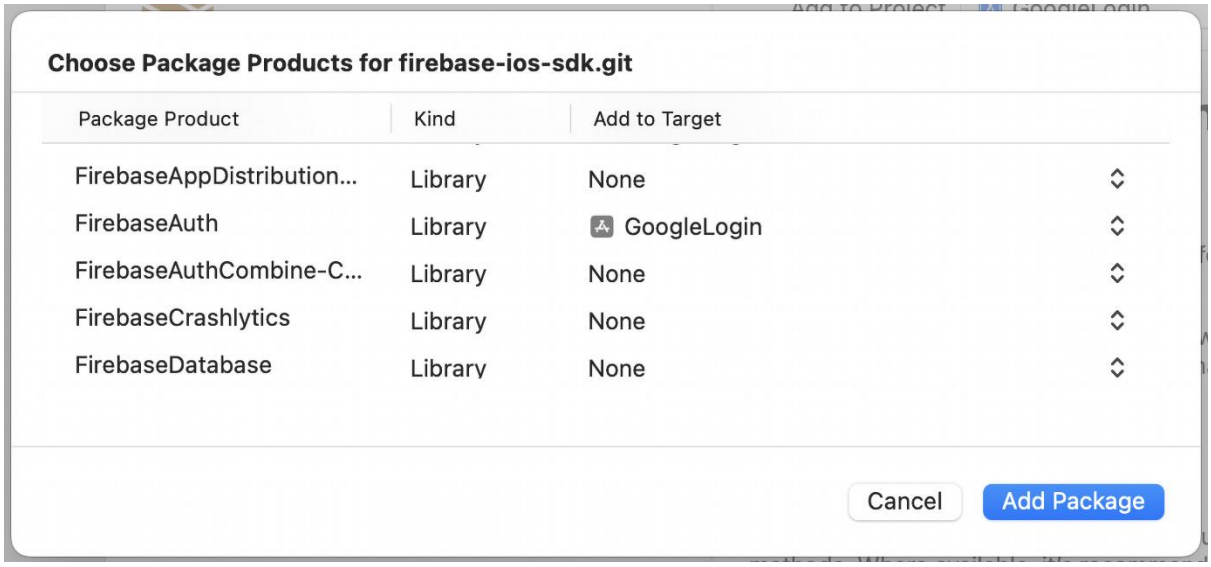
3 Add Firebase SDK

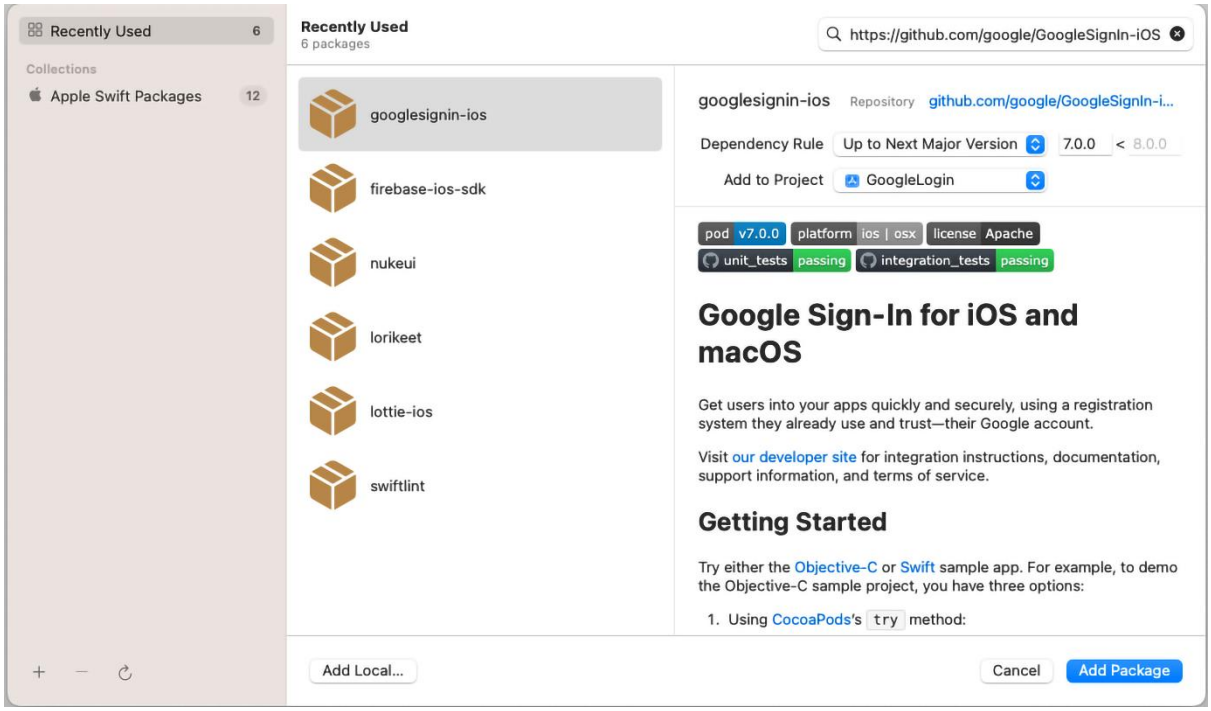

RemoteConfig
main
iPhone 15 Pro
RemoteConfig: Ready | Today at 5:15 PM
Choose options for adding these files:
Destination:
Copy items if needed
Added folders:
Create groups
Create folder references
Add to targets:
RemoteConfig
Cancel
Finish
Build Rules
Bundle Identifier
us.bitmakers.SwiftUIBook.RemoteConfig
Package Dependencies


RemoteConfig
M
RemoteConfig
RemoteConfigApp
ContentView
Assets
GoogleService-Info
A
Preview Content
Preview Assets
Products
Frameworks
Package Dependencies
abseil 1.2022062300.0
Firebase 10.17.0
GoogleAppMeasurement 10.17.0
GoogleDataTransport 9.2.5
GoogleUtilities 7.11.5
gRPC 1.49.1

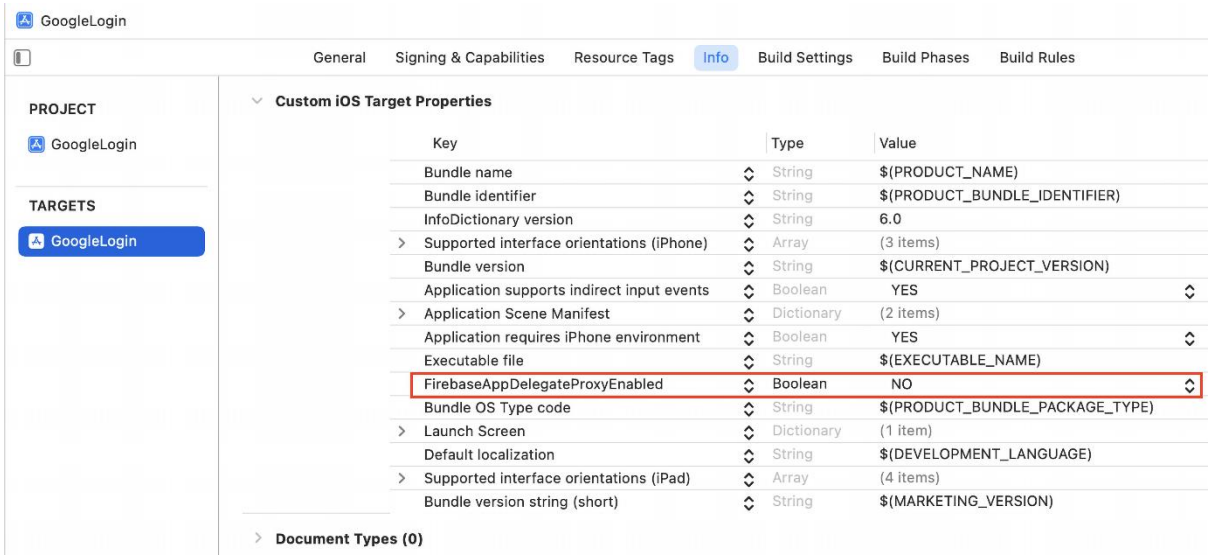

A
B

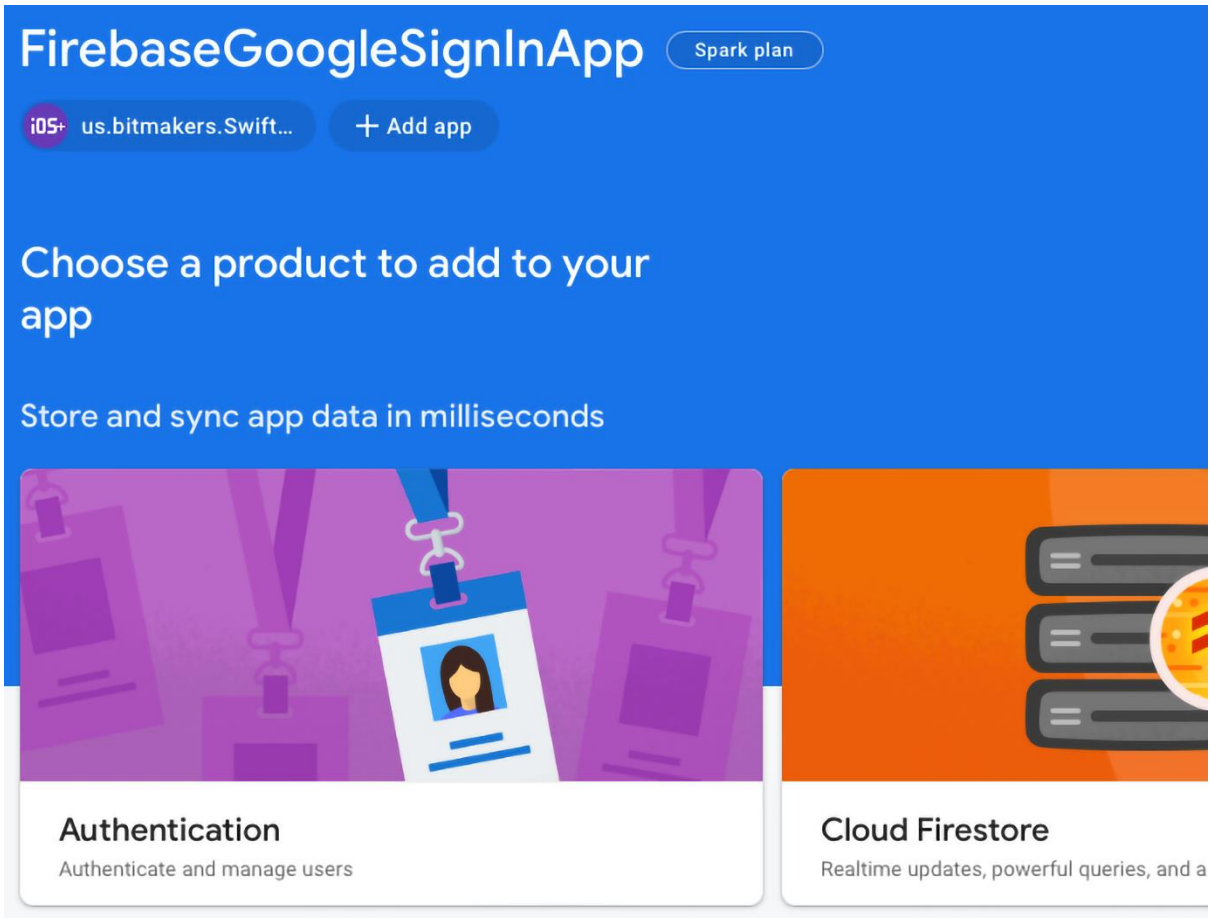

Recently Used 5
Collections
Apple Swift Packages 12
Recently Used
5 packages
tps://github.com/firebase/firebase-ios-sdk.git
firebase-ios-sdk
nukeui
lorikeet
lottie-ios
swiftlint
firebase-ios-sdk Repository github.com/firebase/firebase-ios-s...
Dependency Rule Up to Next Major Version 10.13.0 < 11.0.0
Add to Project RemoteConfig
Firebase Apple Open Source Development
This repository contains the source code for all Apple platform Firebase SDKs except FirebaseAnalytics.
Firebase is an app development platform with tools to help you build, grow, and monetize your app. More information about Firebase can be found on the official Firebase website.
Installation
See the subsections below for details about the different installation methods. Where available, it's recommended to install any libraries with a Swift suffix to get the best experience when writing your app in Swift.
1. Standard pod install
Add Local...
Cancel
Add Package

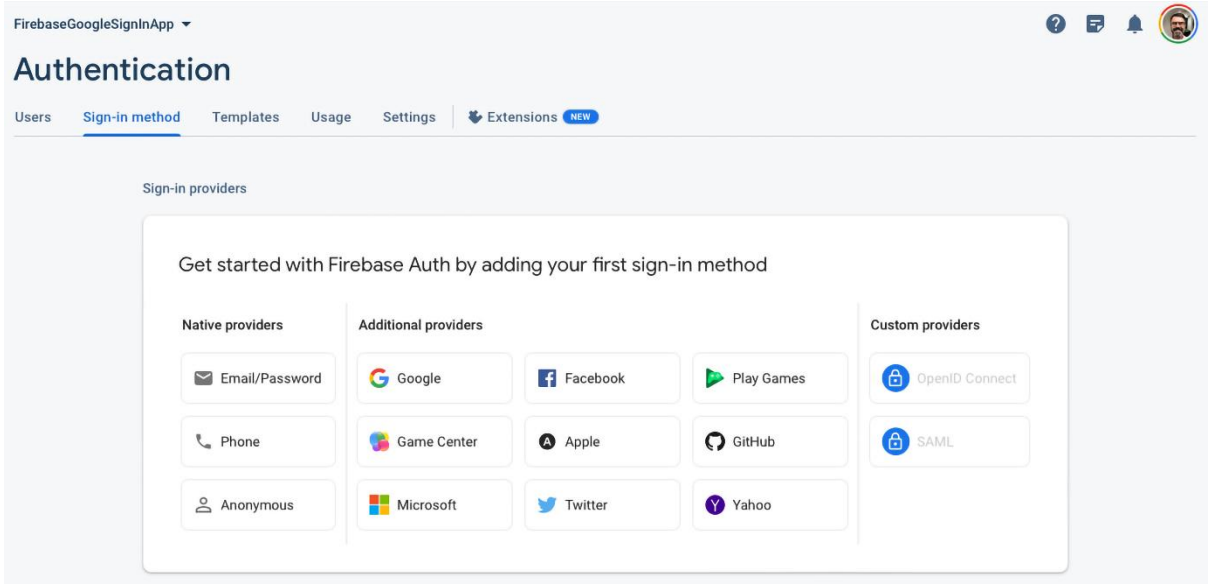

Choose Package Products for firebase-ios-sdk.git
Package Product
Kind
Add to Target
FirebaseAppDistribution...
Library
None
FirebaseAuth
Library
GoogleLogin
FirebaseAuthCombine-C...
Library
None
FirebaseCrashlytics
Library
None
FirebaseDatabase
Library
None
Cancel
Add Package

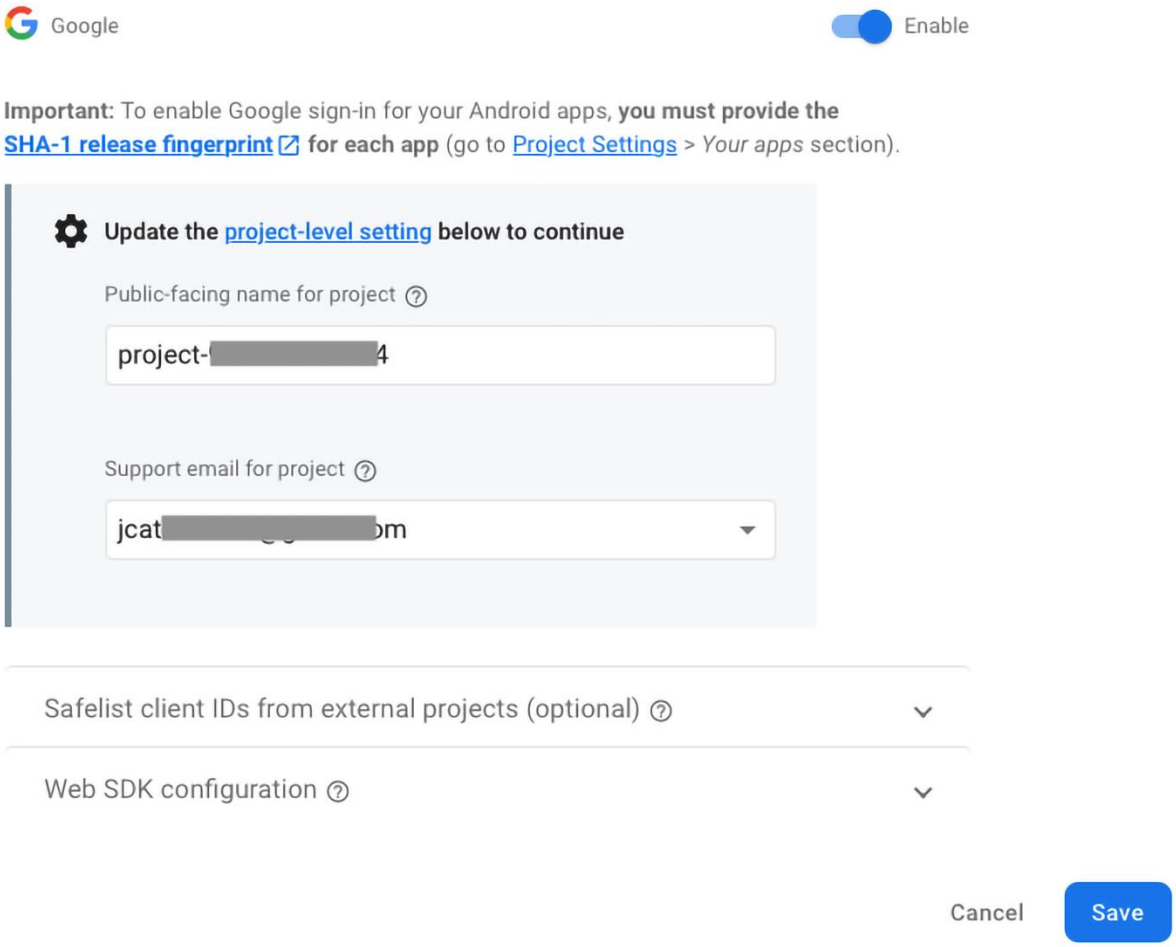

Recently Used 6
Collections
Apple Swift Packages 12
Recently Used
6 packages
https://github.com/google/GoogleSignIn-iOS
googlesignin-ios
firebase-ios-sdk
nukeui
lorikeet
lottie-ios
swiftlint
googlesignin-ios Repository github.com/google/GoogleSignIn-i...
Dependency Rule Up to Next Major Version 7.0.0 < 8.0.0
Add to Project GoogleLogin
pod v7.0.0 platform ios | osx license Apache
unit_tests passing integration_tests passing
Google Sign-In for iOS and macOS
Get users into your apps quickly and securely, using a registration system they already use and trust—their Google account.
Visit our developer site for integration instructions, documentation, support information, and terms of service.
Getting Started
Try either the Objective-C or Swift sample app. For example, to demo the Objective-C sample project, you have three options:
1. Using CocoaPods's try method:
Add Local...
Cancel
Add Package

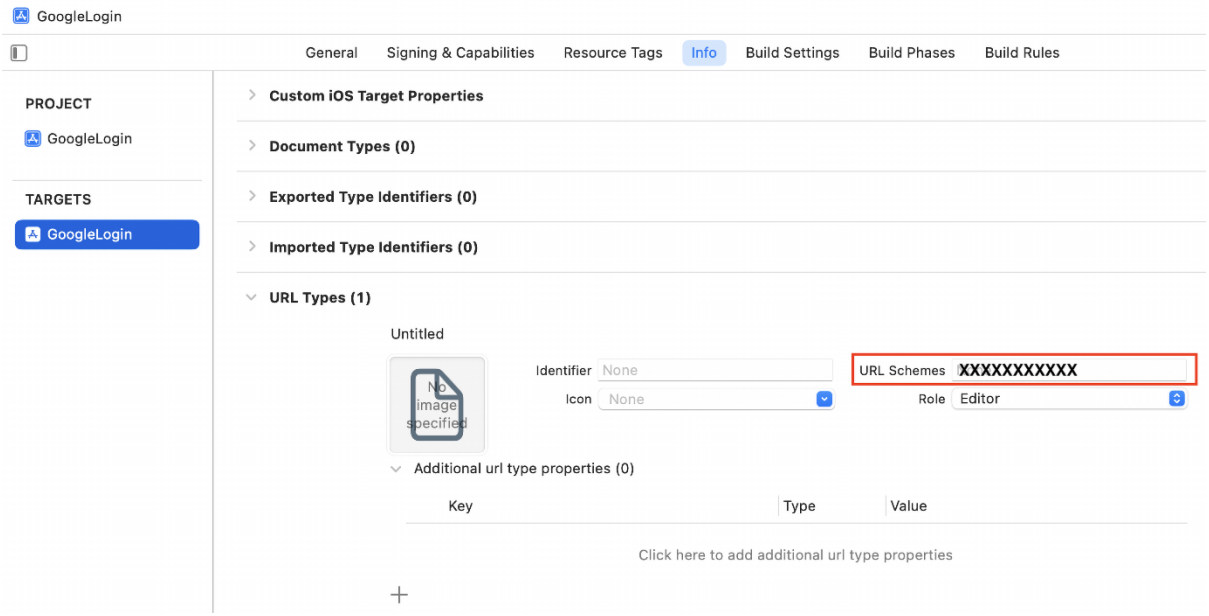

Choose Package Products for GoogleSignIn-iOS
Package Product
Kind
Add to Target
GoogleSignIn
Library
GoogleLogin
GoogleSignInSwift
Library
GoogleLogin
Cancel
Add Package

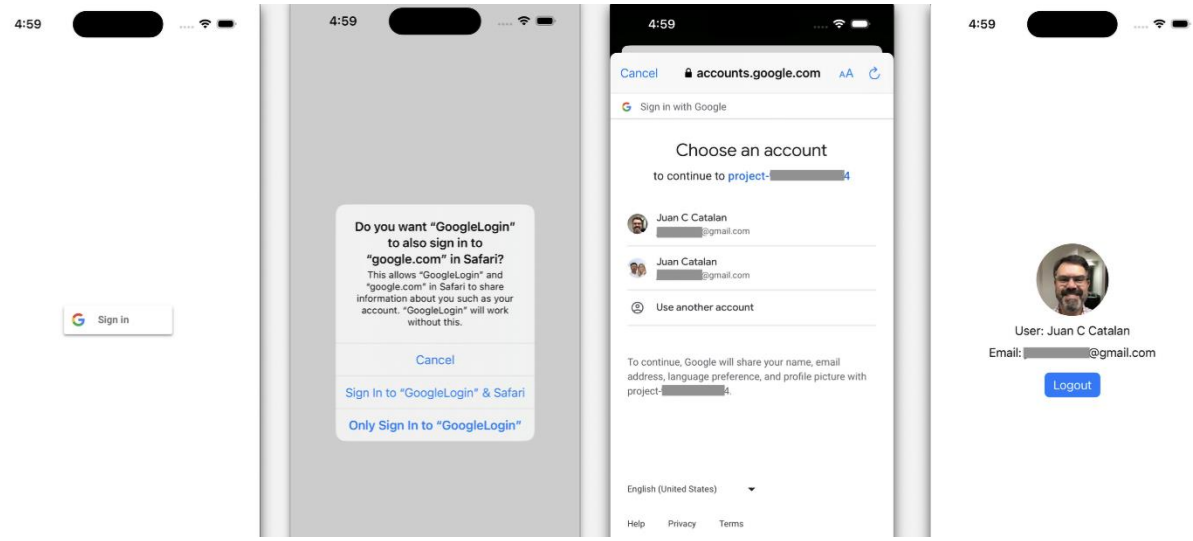

GoogleLogin
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
GoogleLogin
TARGETS
GoogleLogin
Custom iOS Target Properties
Key
Type
Value
Bundle name String $(PRODUCT_NAME)
Bundle identifier String $(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version String 6.0
Supported interface orientations (iPhone) Array (3 items)
Bundle version String $(CURRENT_PROJECT_VERSION)
Application supports indirect input events Boolean YES
Application Scene Manifest Dictionary (2 items)
Application requires iPhone environment Boolean YES
Executable file String $(EXECUTABLE_NAME)
FirebaseAppDelegateProxyEnabled Boolean NO
Bundle OS Type code String $(PRODUCT_BUNDLE_PACKAGE_TYPE)
Launch Screen Dictionary (1 item)
Default localization String $(DEVELOPMENT_LANGUAGE)
Supported interface orientations (iPad) Array (4 items)
Bundle version string (short) String $(MARKETING_VERSION)
Document Types (0)

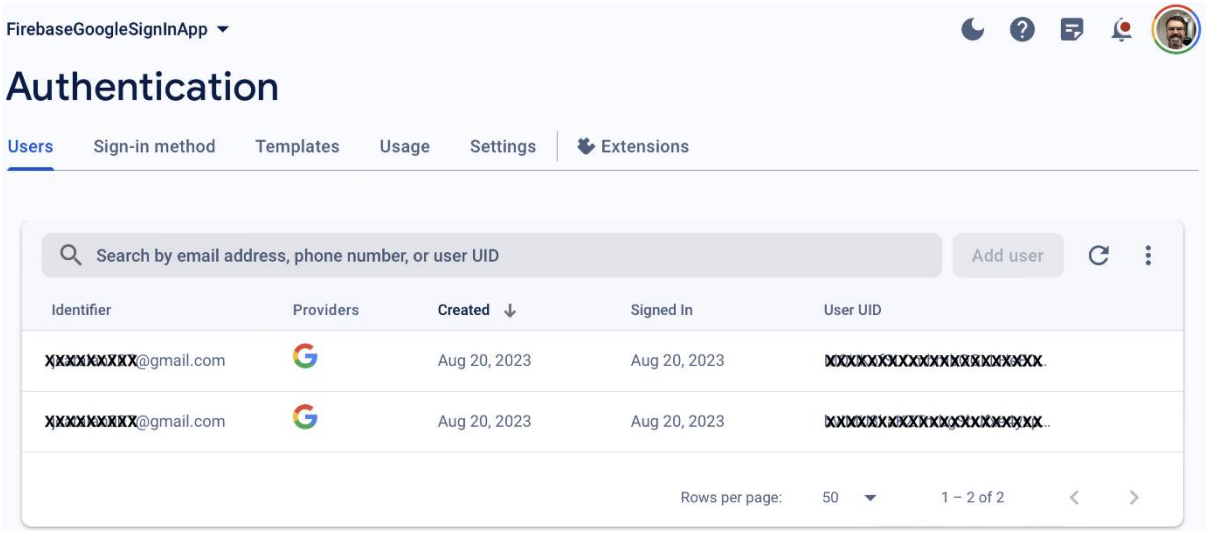

FirebaseGoogleSignInApp
Spark plan
iOS+ us.bitmakers.Swift...
+ Add app
Choose a product to add to your app
Store and sync app data in milliseconds
Authentication
Authenticate and manage users
Cloud Firestore
Realtime updates, powerful queries, and a

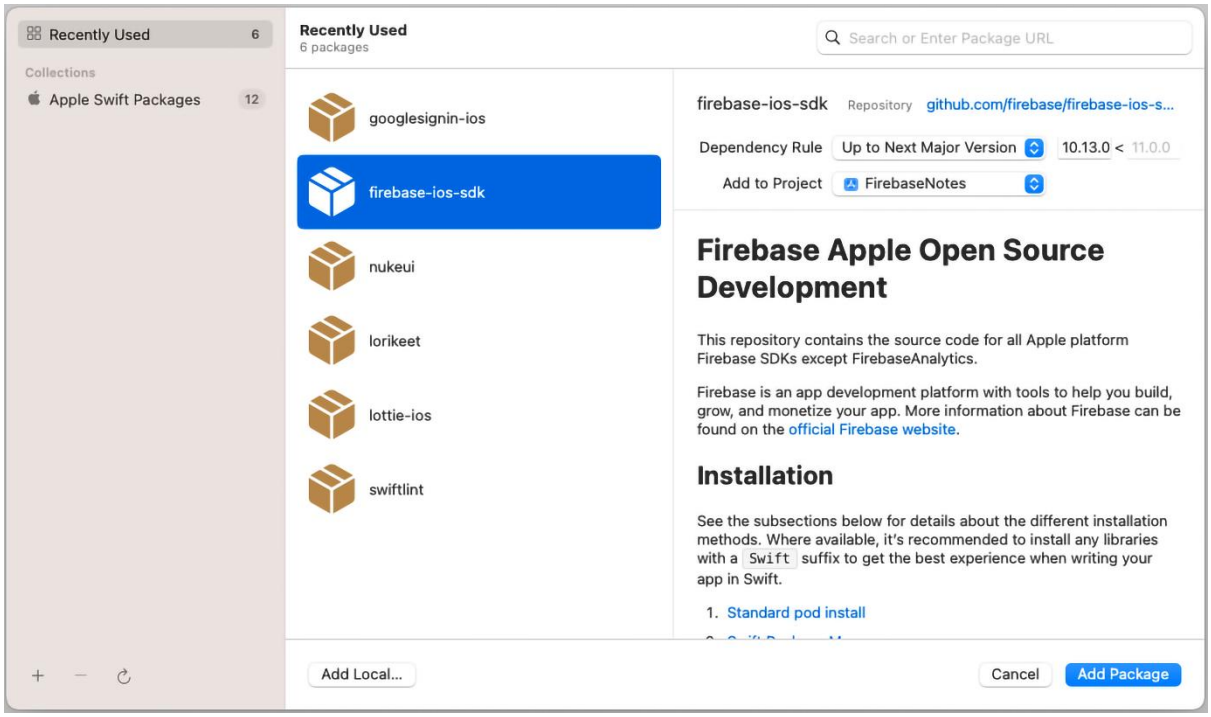

FirebaseGoogleSignInApp
Authentication
Users
Sign-in method
Templates
Usage
Settings
Extensions
NEW
Sign-in providers
Get started with Firebase Auth by adding your first sign-in method
Native providers
Email/Password
Phone
Anonymous
Additional providers
Google
Facebook
Play Games
Game Center
Apple
GitHub
Microsoft
Twitter
Yahoo
Custom providers
OpenID Connect
SAML


Google
Enable
Important: To enable Google sign-in for your Android apps, you must provide the SHA-1 release fingerprint for each app (go to Project Settings > Your apps section).
Update the project-level setting below to continue
Public-facing name for project
project-[redacted]4
Support email for project
jcat[redacted]om
Safelist client IDs from external projects (optional)
Web SDK configuration
Cancel
Save

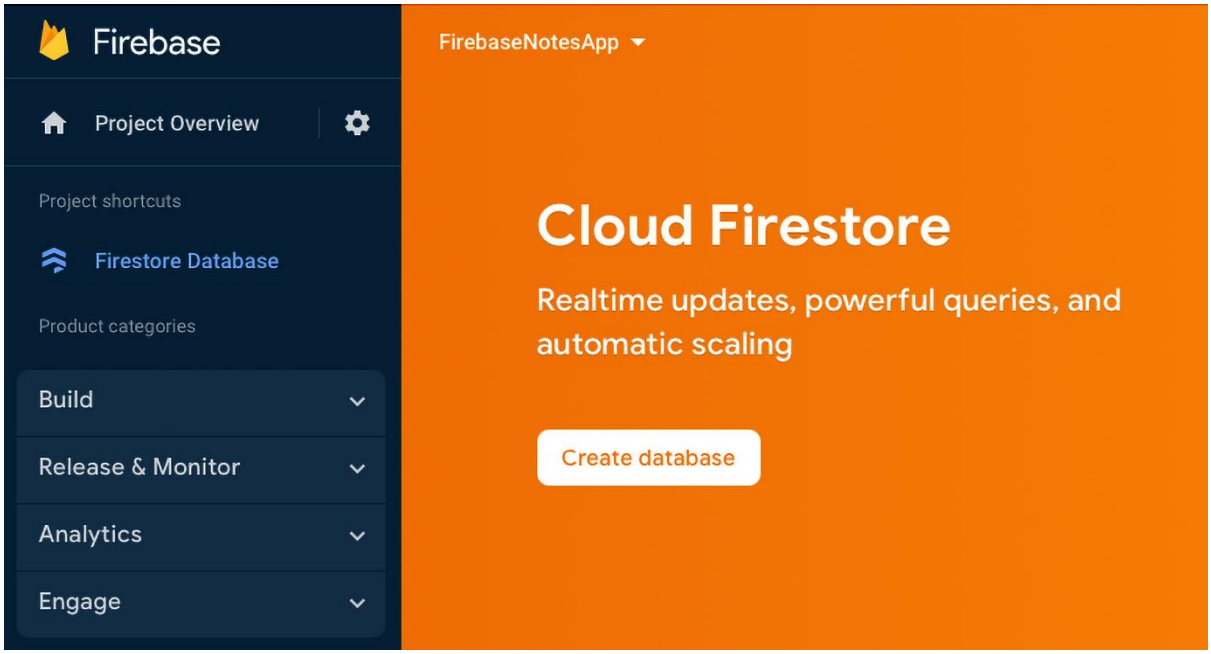

GoogleLogin
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
GoogleLogin
TARGETS
GoogleLogin
Custom iOS Target Properties
Document Types (0)
Exported Type Identifiers (0)
Imported Type Identifiers (0)
URL Types (1)
Untitled
No image specified
Identifier None
Icon None
URL Schemes XXXXXXXXXX
Role Editor
Additional url type properties (0)
Key
Type
Value
Click here to add additional url type properties

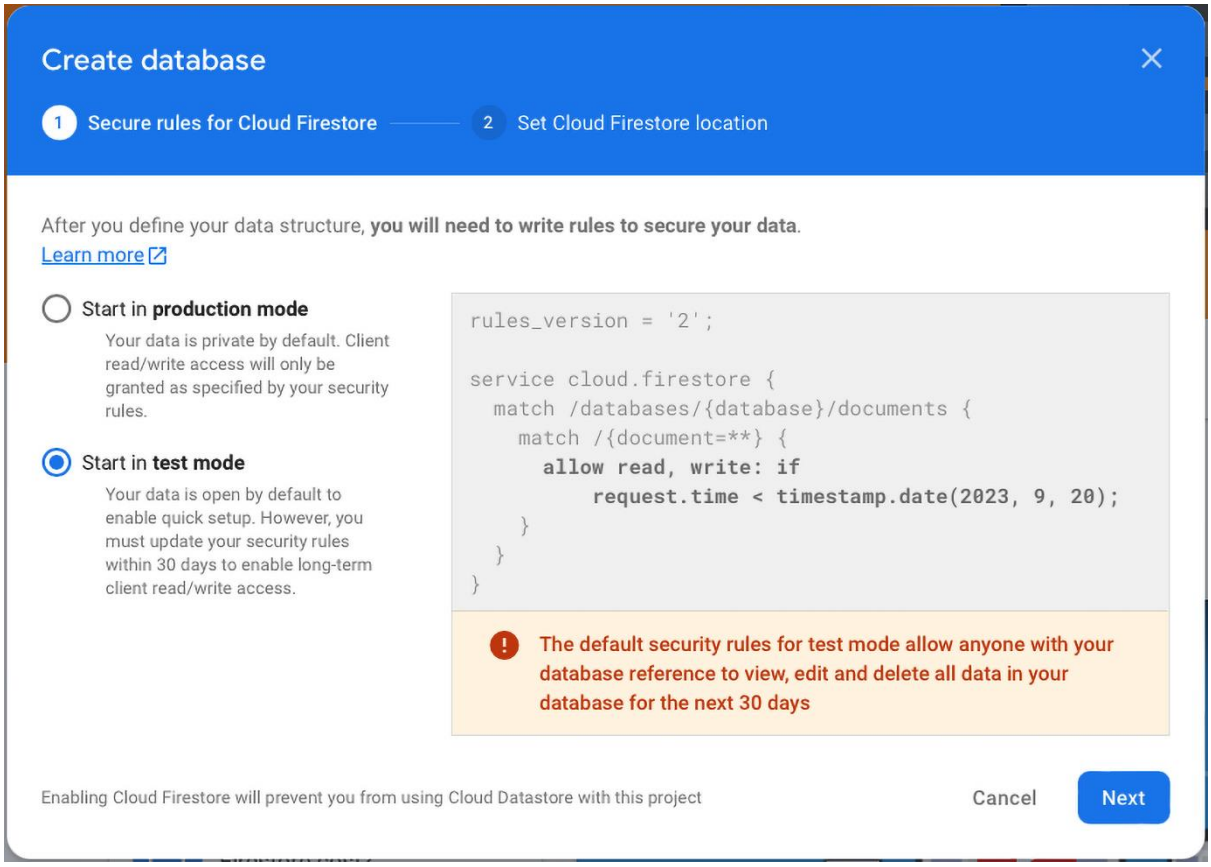

4:59
Sign in
4:59
Do you want "GoogleLogin" to also sign in to "google.com" in Safari?
This allows "GoogleLogin" and "google.com" in Safari to share information about you such as your account. "GoogleLogin" will work without this.
Cancel
Sign In to "GoogleLogin" & Safari
Only Sign In to "GoogleLogin"
4:59
Cancel
accounts.google.com
Sign in with Google
Choose an account
to continue to project-
Juan C Catalan
Juan Catalan
Use another account
To continue, Google will share your name, email address, language preference, and profile picture with project-
English (United States)
Help
Privacy
Terms
4:59
User: Juan C Catalan
Email: @gmail.com
Logout

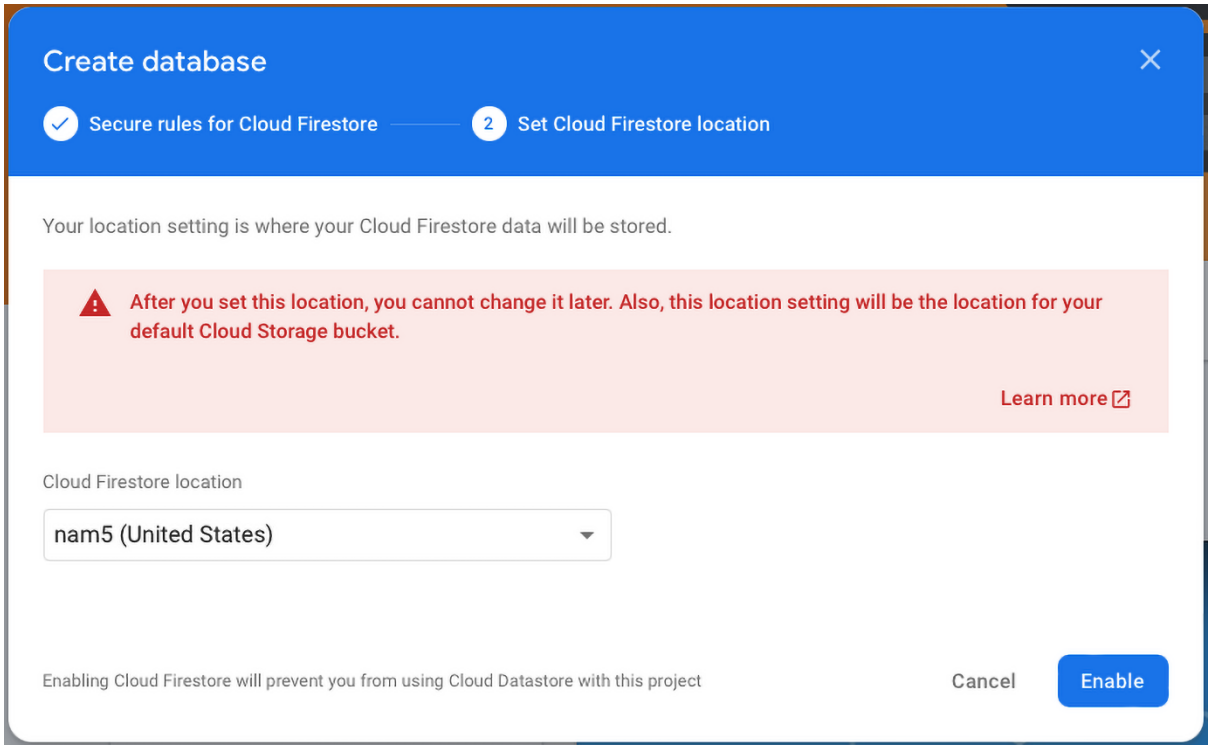

FirebaseGoogleSignInApp
Authentication
Users
Sign-in method
Templates
Usage
Settings
Extensions
Search by email address, phone number, or user UID
Add user
Identifier
Providers
Created
Signed In
User UID
@gmail.com
Aug 20, 2023
Aug 20, 2023
@gmail.com
Aug 20, 2023
Aug 20, 2023
Rows per page:
50
1 – 2 of 2

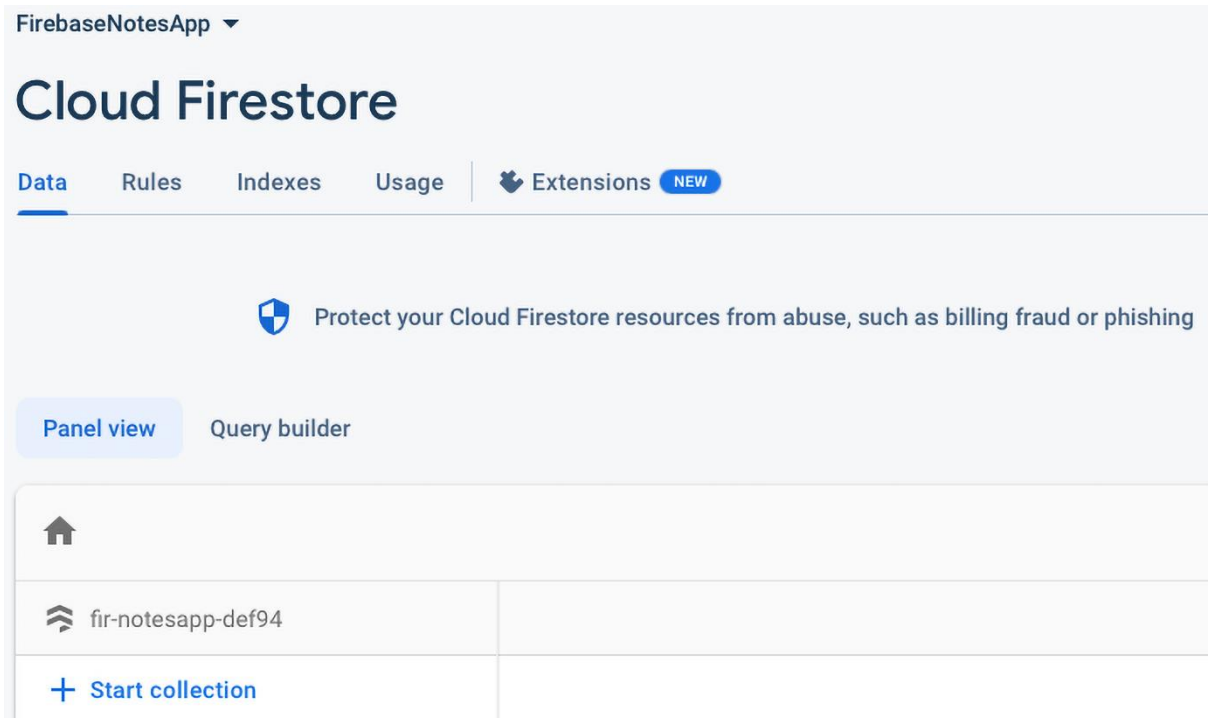

Recently Used 6
Collections
Apple Swift Packages 12
Recently Used
6 packages
Search or Enter Package URL
googlesignin-ios
firebase-ios-sdk
nukeui
lorikeet
lottie-ios
swiftlint
firebase-ios-sdk Repository github.com/firebase/firebase-ios-s...
Dependency Rule Up to Next Major Version 10.13.0 < 11.0.0
Add to Project FirebaseNotes
Firebase Apple Open Source Development
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Installation
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1. Standard pod install
Add Local...
Cancel
Add Package

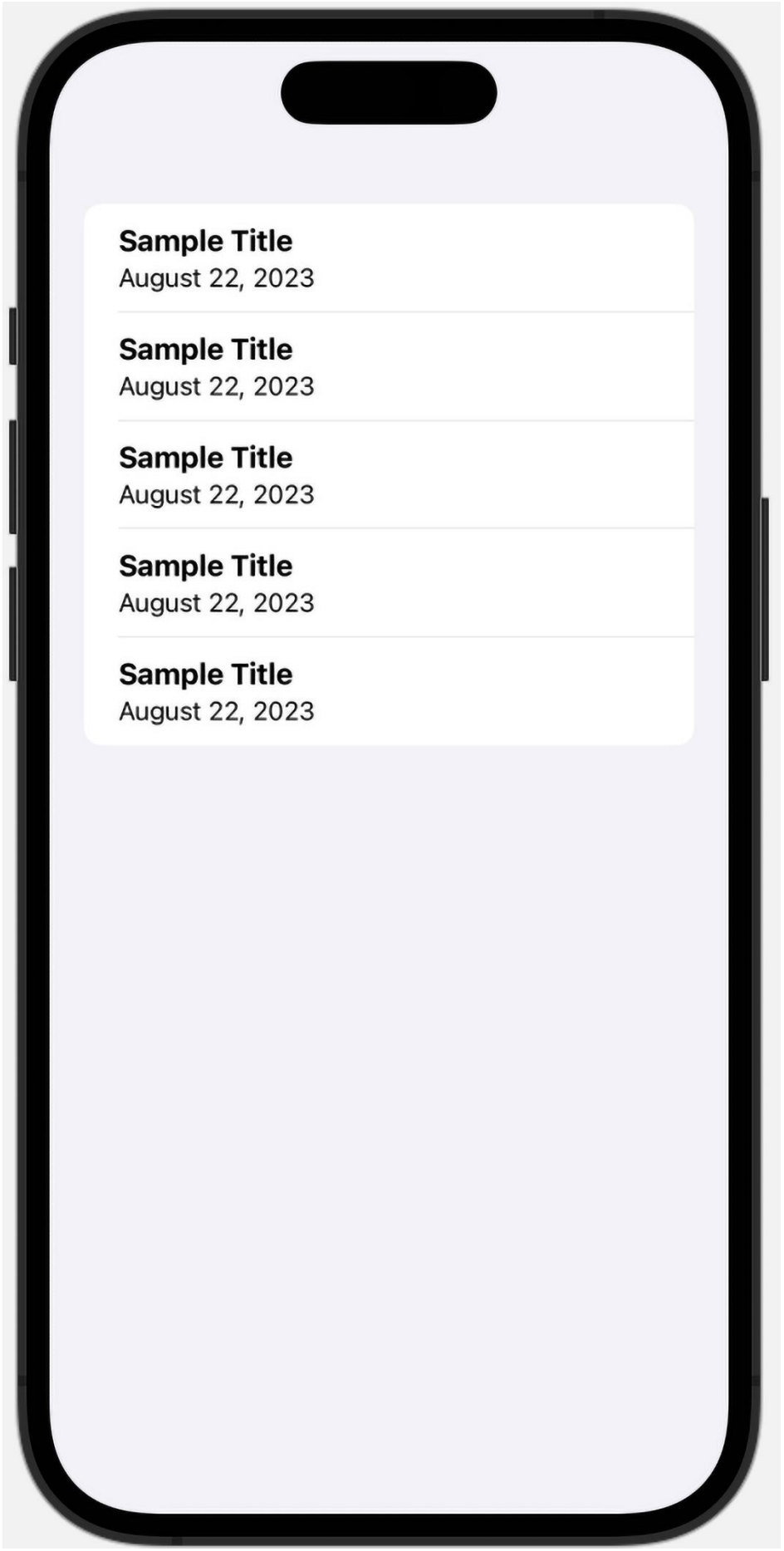

Choose Package Products for firebase-ios-sdk.git
Package Product
Kind
Add to Target
FirebaseDynamicLinks
Library
None
FirebaseFirestore
Library
GoogleLogin
FirebaseFirestoreCombine-Co...
Library
None
FirebaseFirestoreSwift
Library
GoogleLogin
FirebaseFunctions
Library
None
Cancel
Add Package


Firebase
FirebaseNotesApp
Project Overview
Project shortcuts
Firestore Database
Product categories
Build
Release & Monitor
Analytics
Engage
Cloud Firestore
Realtime updates, powerful queries, and automatic scaling
Create database

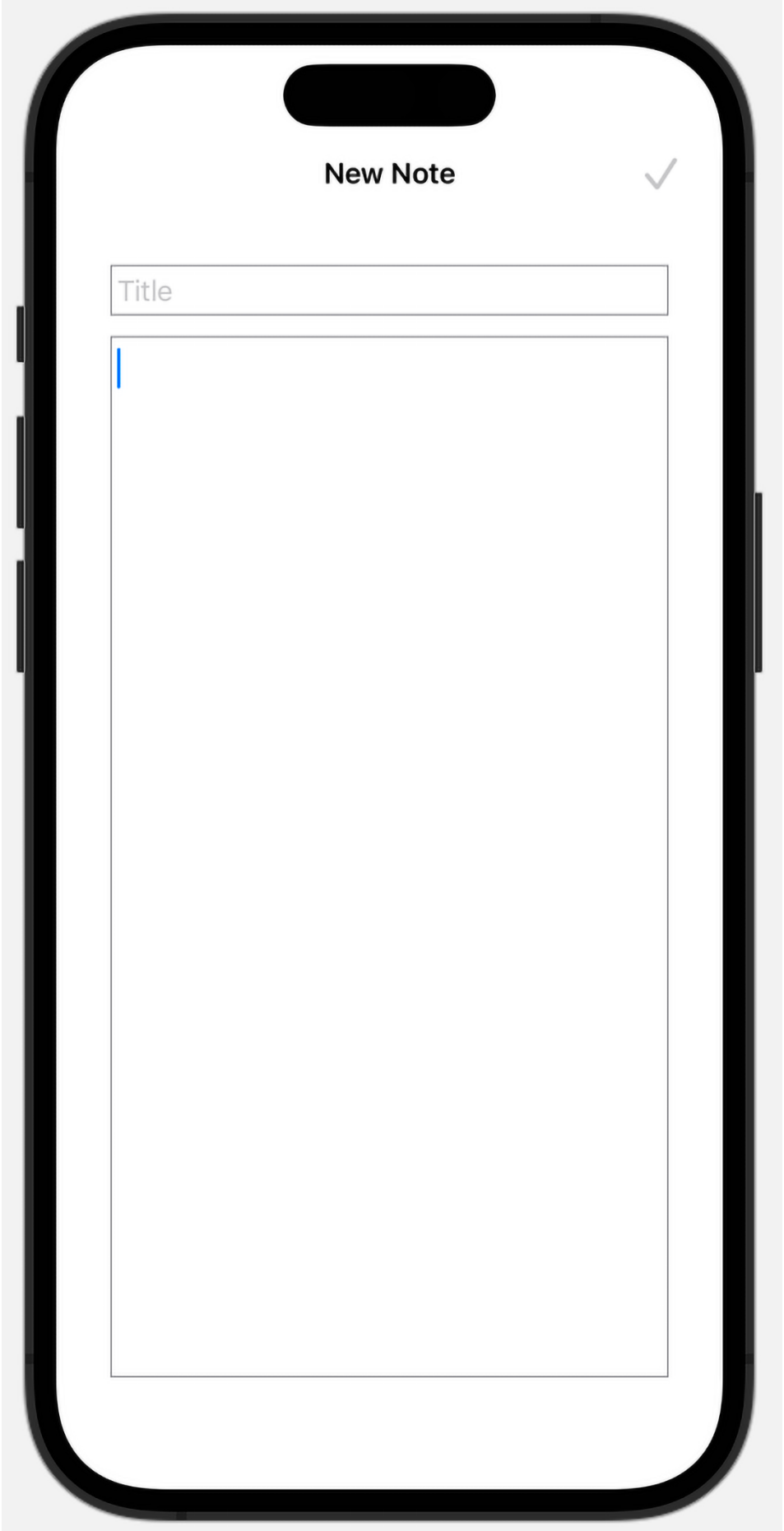

Create database
1 Secure rules for Cloud Firestore
2 Set Cloud Firestore location
After you define your data structure, you will need to write rules to secure your data.
Learn more
Start in production mode
Your data is private by default. Client read/write access will only be granted as specified by your security rules.
Start in test mode
Your data is open by default to enable quick setup. However, you must update your security rules within 30 days to enable long-term client read/write access.
rules_version = '2';
service cloud.firestore {
match /databases/{database}/documents {
match /{document=**} {
allow read, write: if
request.time < timestamp.date(2023, 9, 20);
}
}
}
The default security rules for test mode allow anyone with your database reference to view, edit and delete all data in your database for the next 30 days
Enabling Cloud Firestore will prevent you from using Cloud Datastore with this project
Cancel
Next

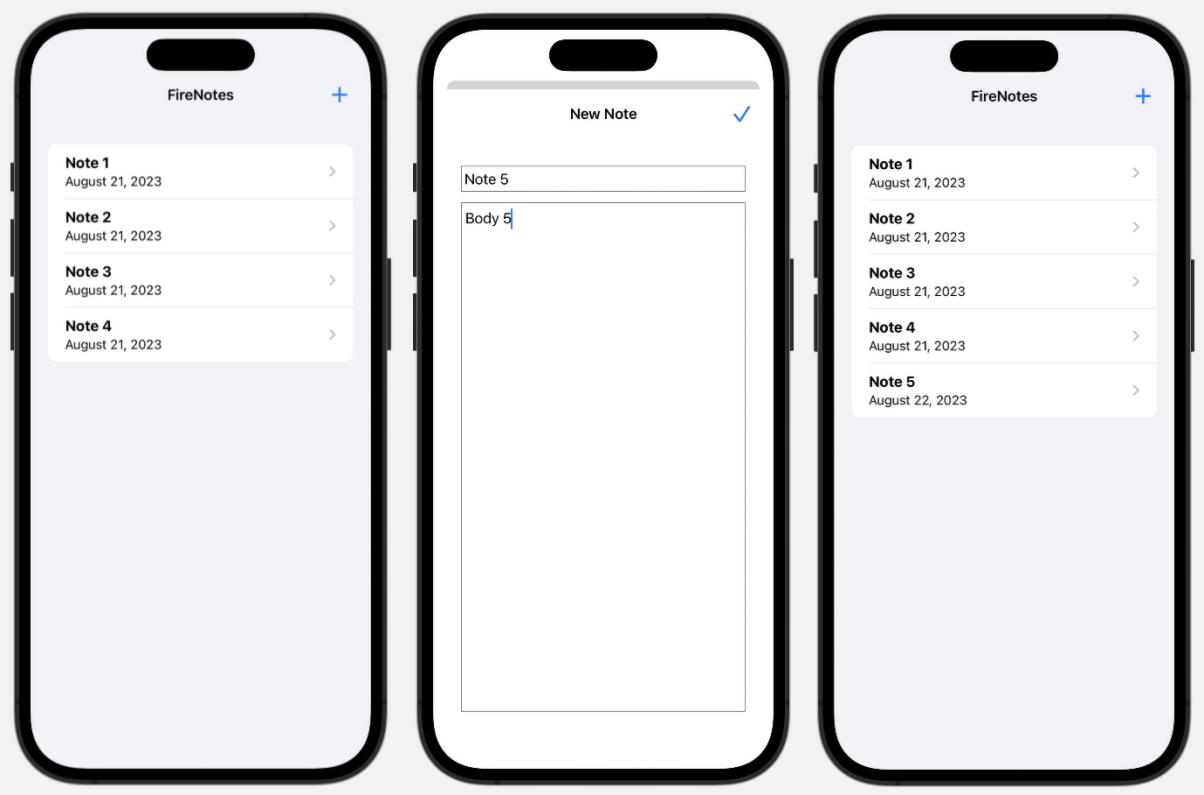

Create database
Secure rules for Cloud Firestore
2
Set Cloud Firestore location
Your location setting is where your Cloud Firestore data will be stored.
After you set this location, you cannot change it later. Also, this location setting will be the location for your default Cloud Storage bucket.
Learn more
Cloud Firestore location
nam5 (United States)
Enabling Cloud Firestore will prevent you from using Cloud Datastore with this project
Cancel
Enable

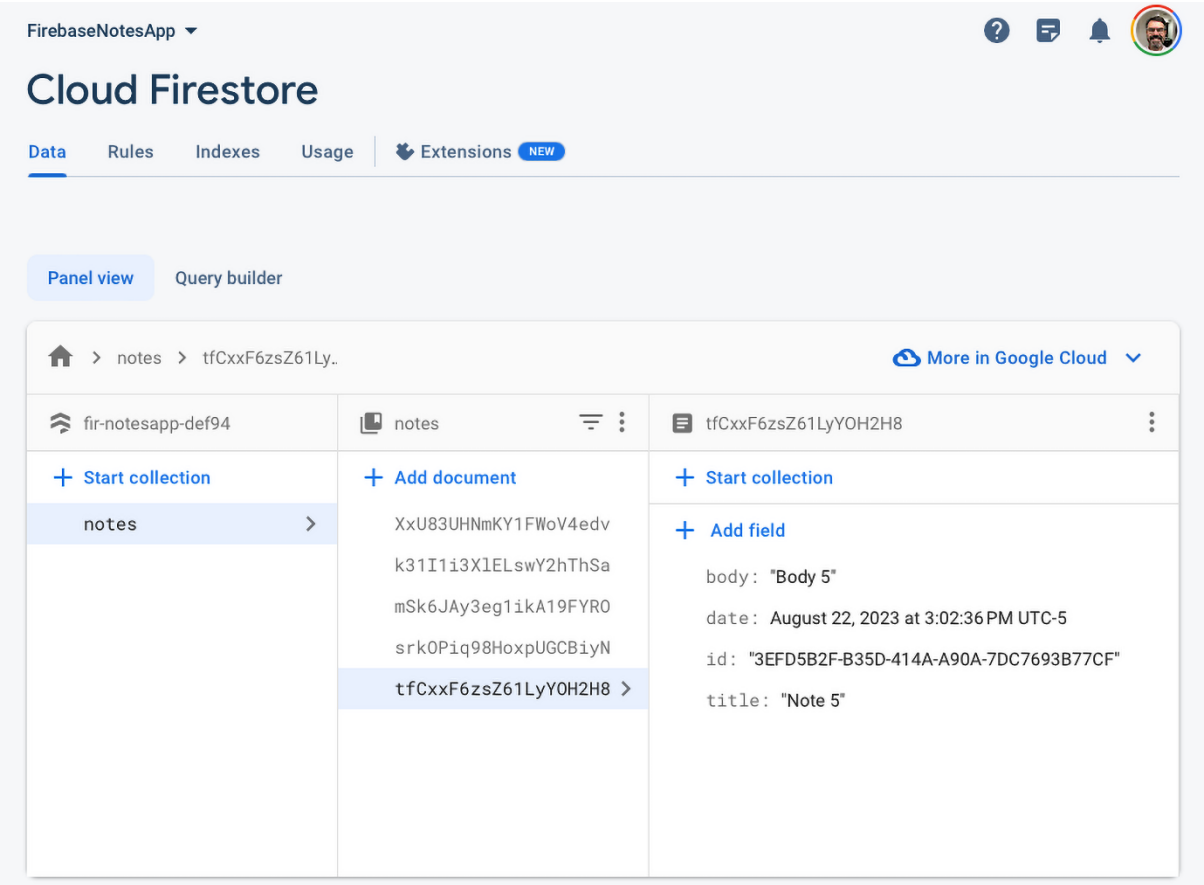

FirebaseNotesApp
Cloud Firestore
Data
Rules
Indexes
Usage
Extensions
NEW
Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing
Panel view
Query builder
fir-notesapp-def94
Start collection


Sample Title
August 22, 2023
Sample Title
August 22, 2023
Sample Title
August 22, 2023
Sample Title
August 22, 2023
Sample Title
August 22, 2023

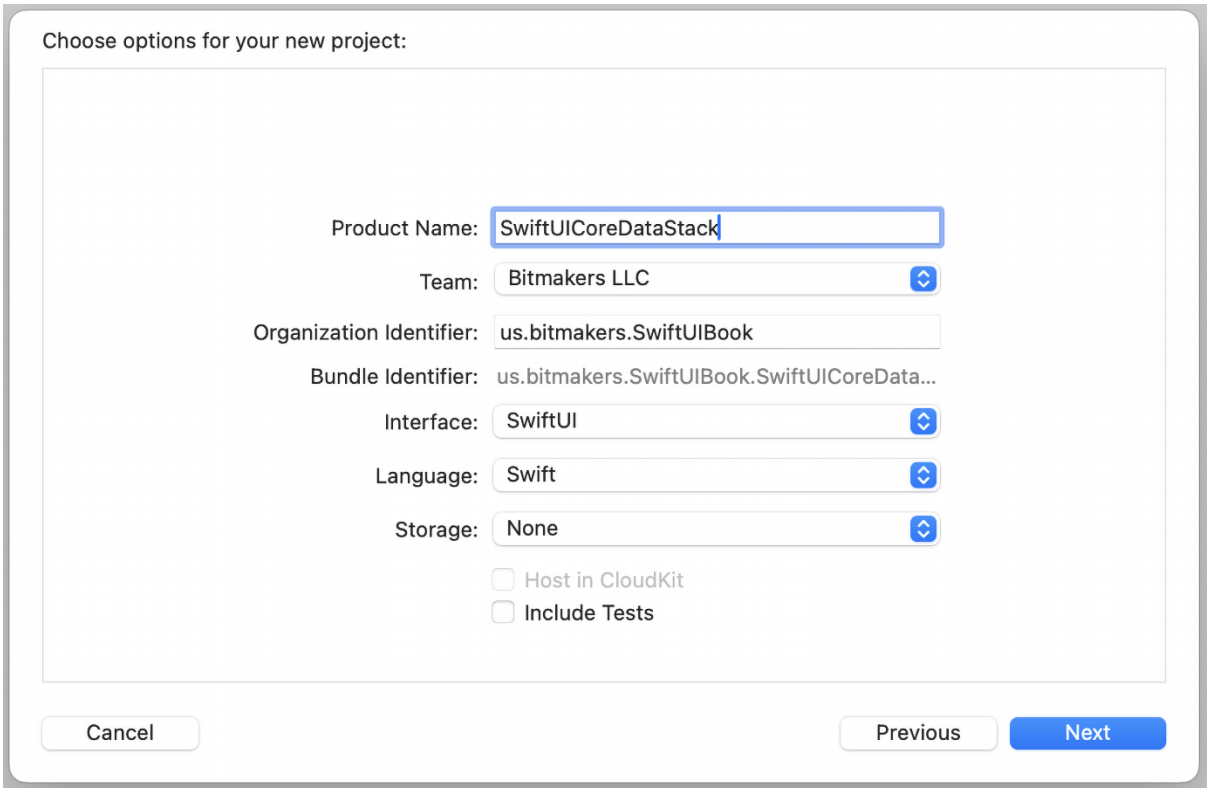

Sample Title
cursus. Bibendum est ultricies integer quis
auctor elit sed vulputate. Nibh praesent
tristique magna sit amet purus gravida quis
blandit. In ornare quam viverra orci sagittis
eu volutpat. Posuere morbi leo urna
molestie at elementum. Feugiat scelerisque
varius morbi enim. Enim neque volutpat ac
tincidunt vitae semper. Odio pellentesque
diam volutpat commodo sed egestas
egestas fringilla. Consequat ac felis donec
et odio.
Nullam vehicula ipsum a arcu cursus vitae
congue mauris. Interdum velit euismod in
pellentesque massa placerat duis ultricies.
Eu volutpat odio facilisis mauris sit. Ac
auctor augue mauris augue neque gravida.
Nam libero justo laoreet sit. Lacus luctus
accumsan tortor posuere ac. Nulla porttitor
massa id neque. Vestibulum rhoncus est
pellentesque elit ullamcorper dignissim
cras. Ipsum dolor sit amet consectetur
adipiscing elit ut. Aenean sed adipiscing
diam donec adipiscing tristique risus.
Pharetra vel turpis nunc eget lorem dolor
sed viverra ipsum. Consectetur adipiscing
elit pellentesque habitant morbi tristique
senectus. Tellus orci ac auctor augue
mauris augue neque gravida in. Tellus at
urna condimentum mattis pellentesque id
nibh tortor. Tempus quam pellentesque nec

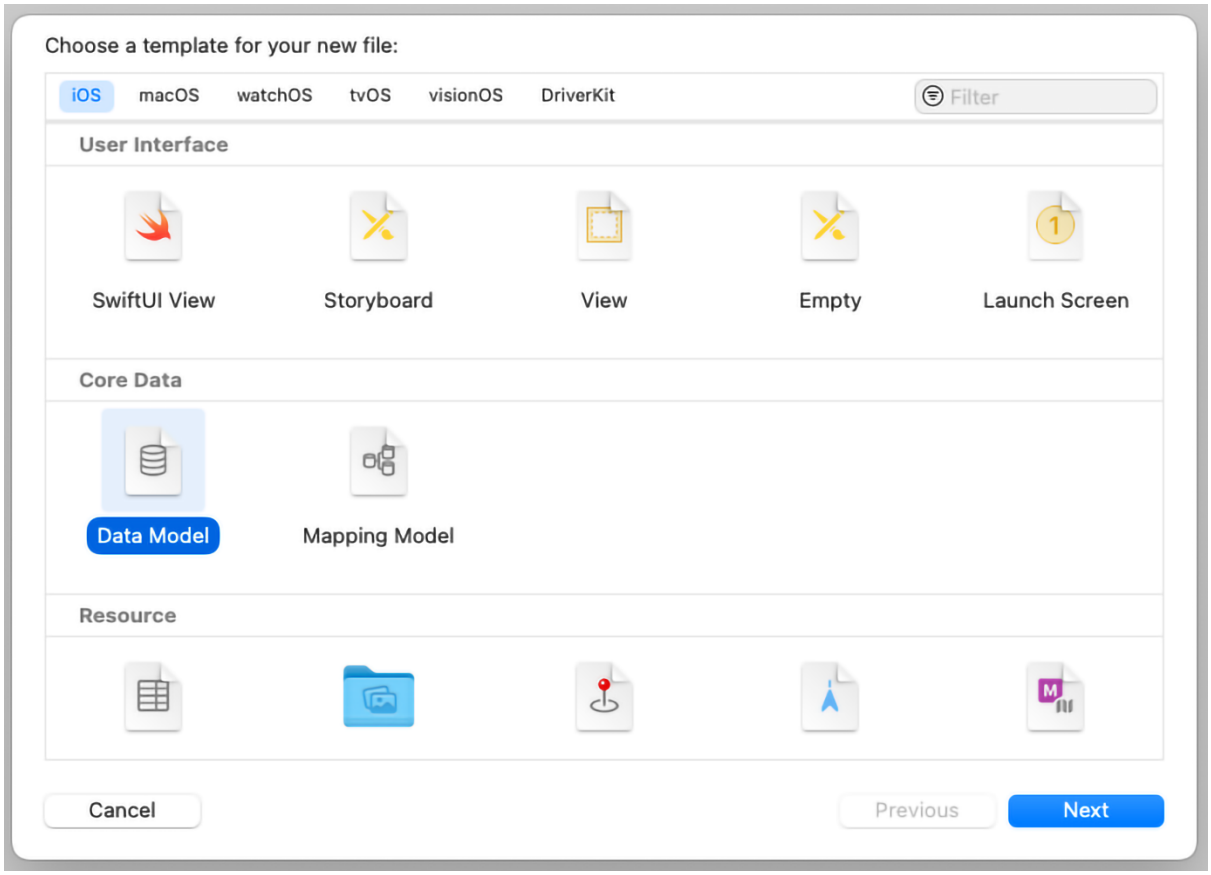

New Note
Title


FireNotes
Note 1
August 21, 2023
Note 2
August 21, 2023
Note 3
August 21, 2023
Note 4
August 21, 2023
New Note
Note 5
Body 5
FireNotes
Note 1
August 21, 2023
Note 2
August 21, 2023
Note 3
August 21, 2023
Note 4
August 21, 2023
Note 5
August 22, 2023

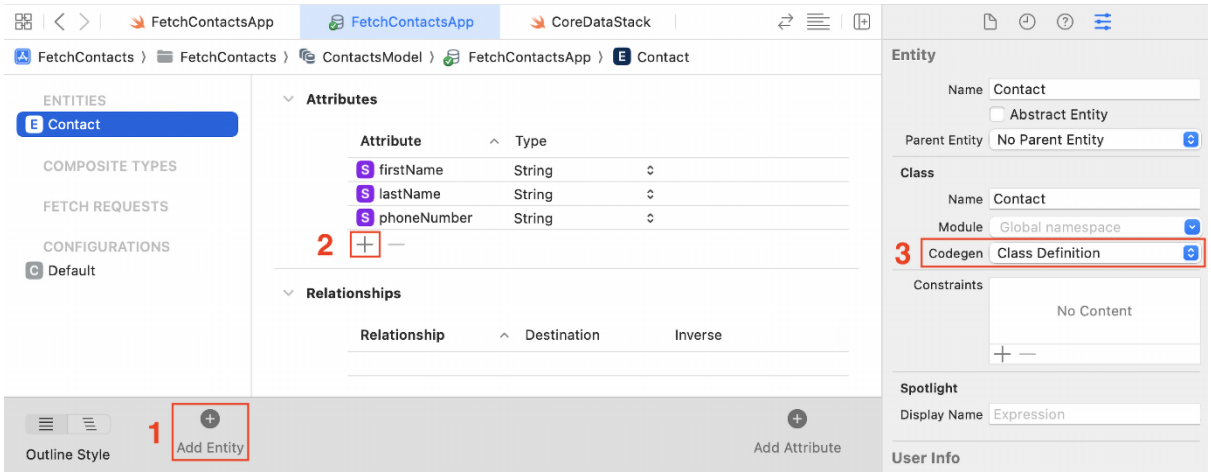

FirebaseNotesApp
Cloud Firestore
Data
Rules
Indexes
Usage
Extensions
NEW
Panel view
Query builder
notes
tfCxxF6zsZ61Ly..
More in Google Cloud
fir-notesapp-def94
notes
tfCxxF6zsZ61LyYOH2H8
Start collection
notes
Add document
XxU83UHNmKY1FWoV4edv
k31I1i3XlELswY2hThSa
mSk6JAy3eg1ikA19FYRO
srkOPiq98HoxpUGCBiyN
tfCxxF6zsZ61LyYOH2H8
Start collection
Add field
body: "Body 5"
date: August 22, 2023 at 3:02:36 PM UTC-5
id: "3EFD5B2F-B35D-414A-A90A-7DC7693B77CF"
title: "Note 5"

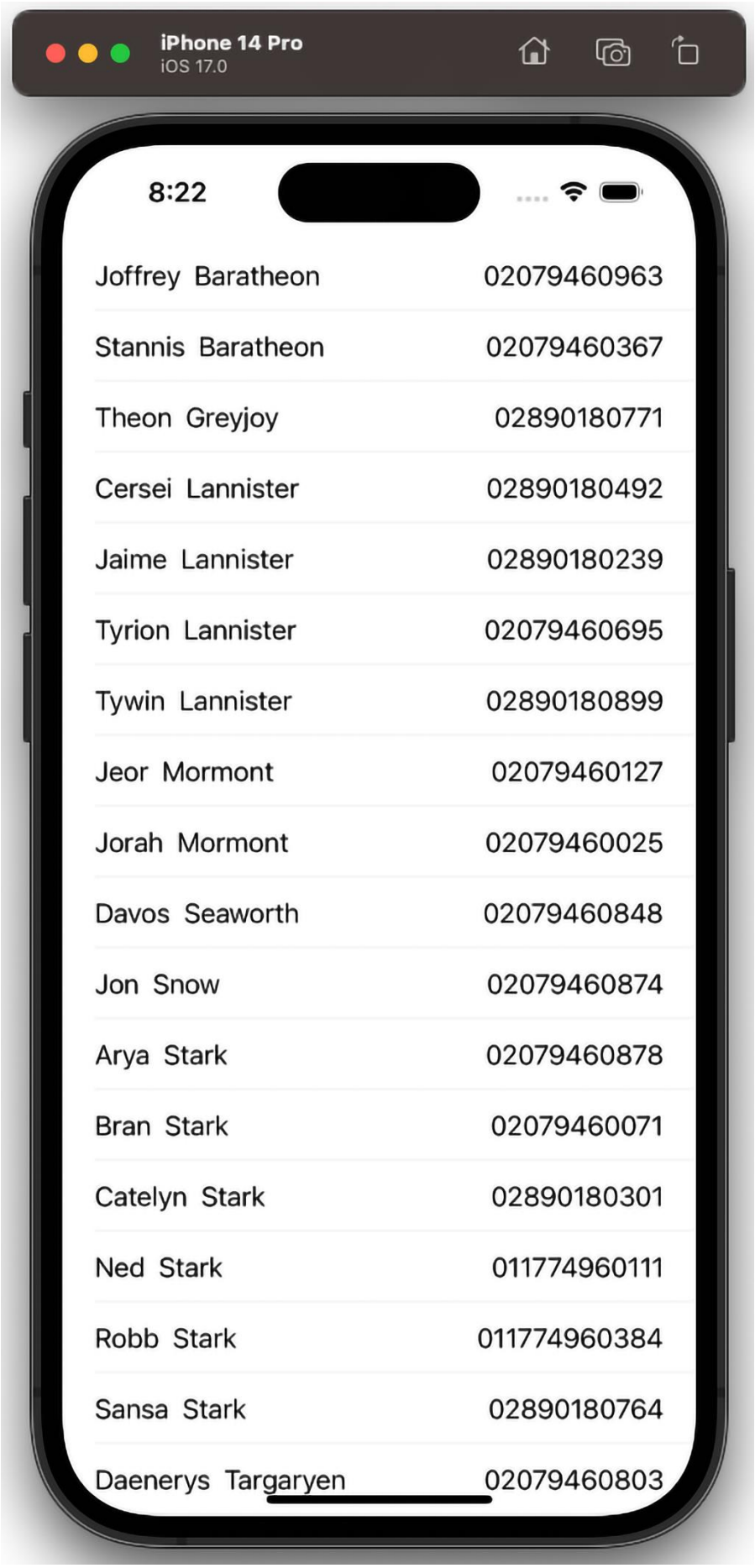
Chapter 14: Persistence in SwiftUI with Core Data and Swift Data

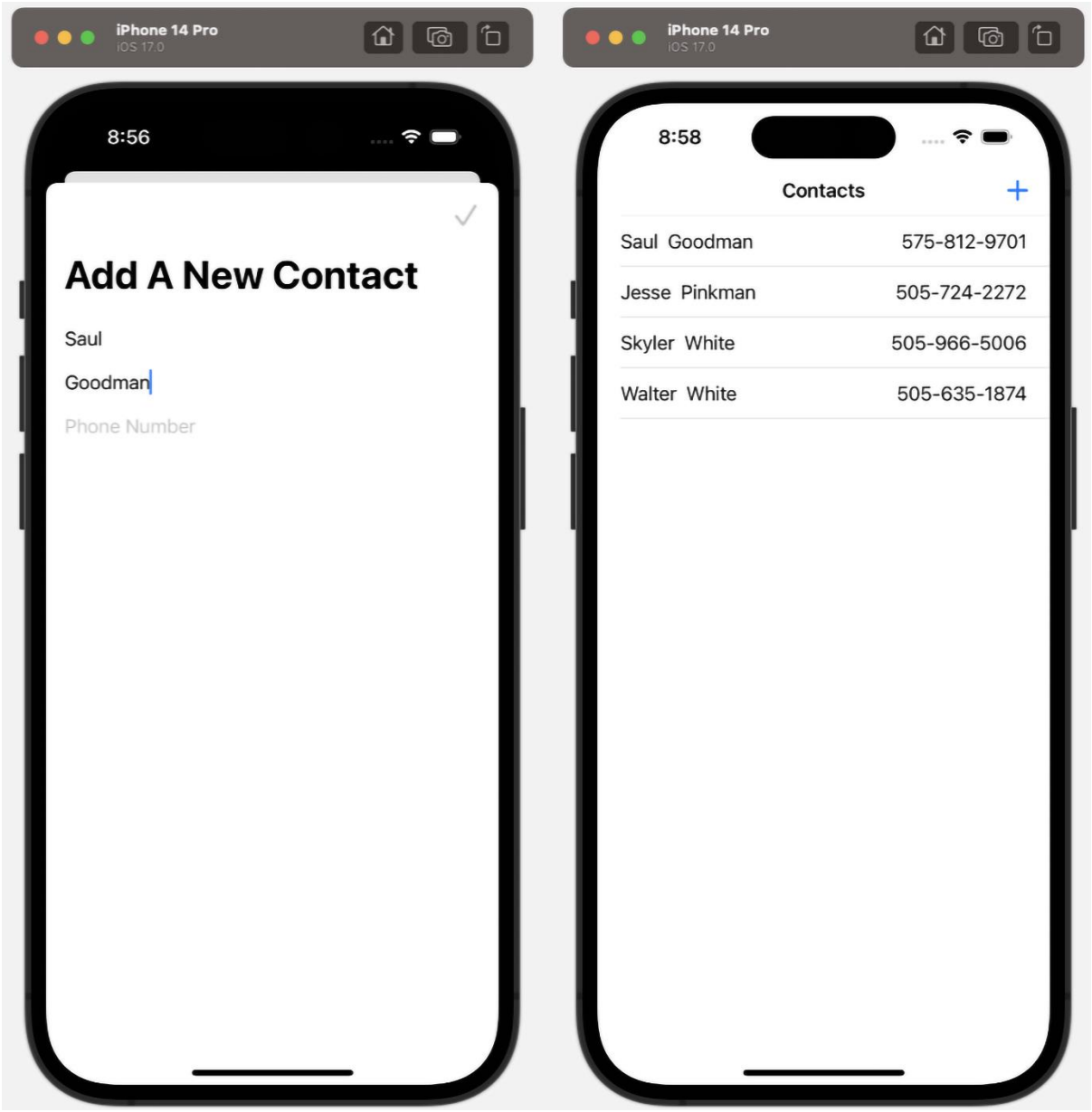


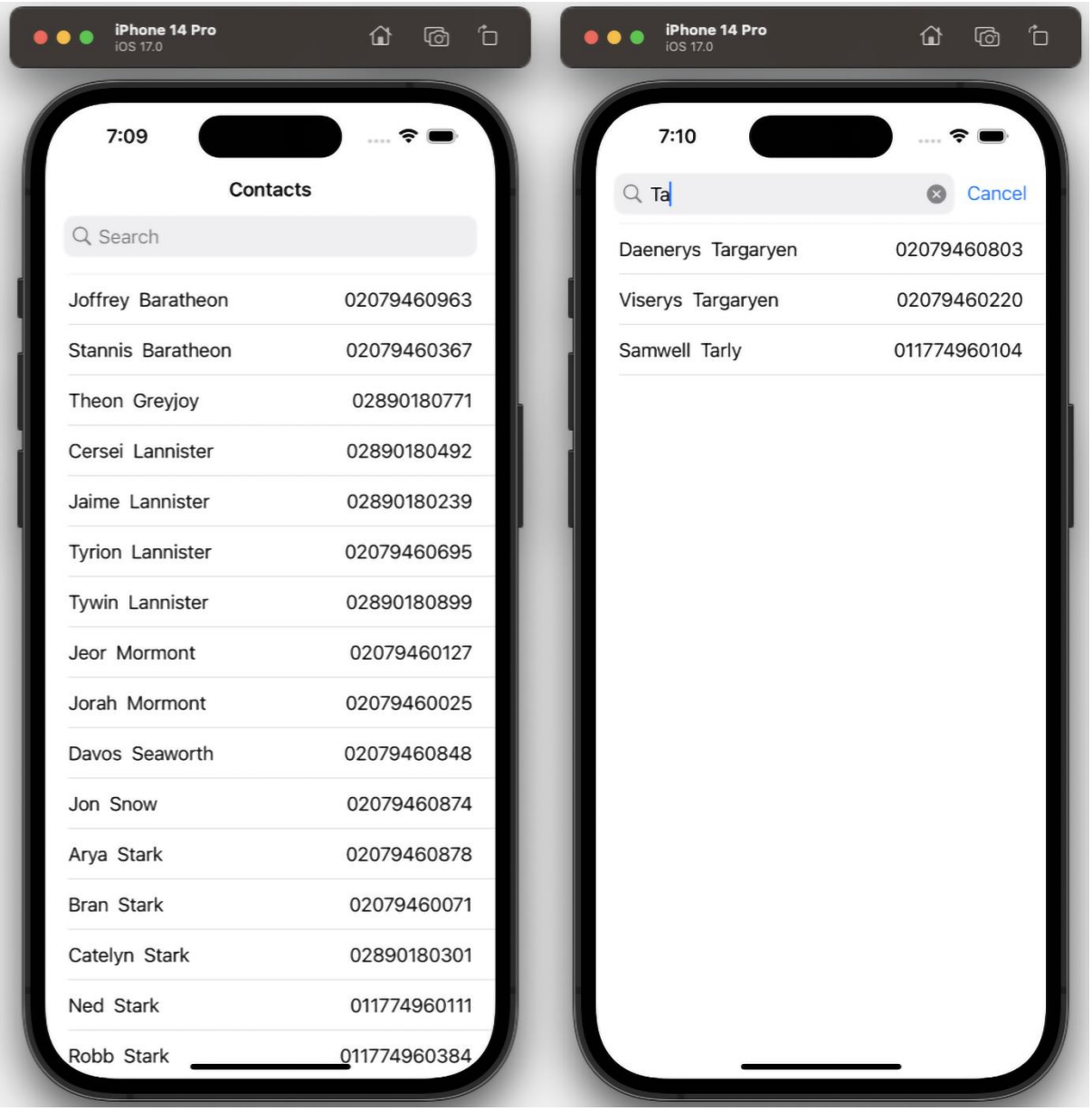

Choose a template for your new file:
iOS
macOS
watchOS
tvOS
visionOS
DriverKit
Filter
User Interface
SwiftUI View
Storyboard
View
Empty
Launch Screen
Core Data
Data Model
Mapping Model
Resource
Cancel
Previous
Next

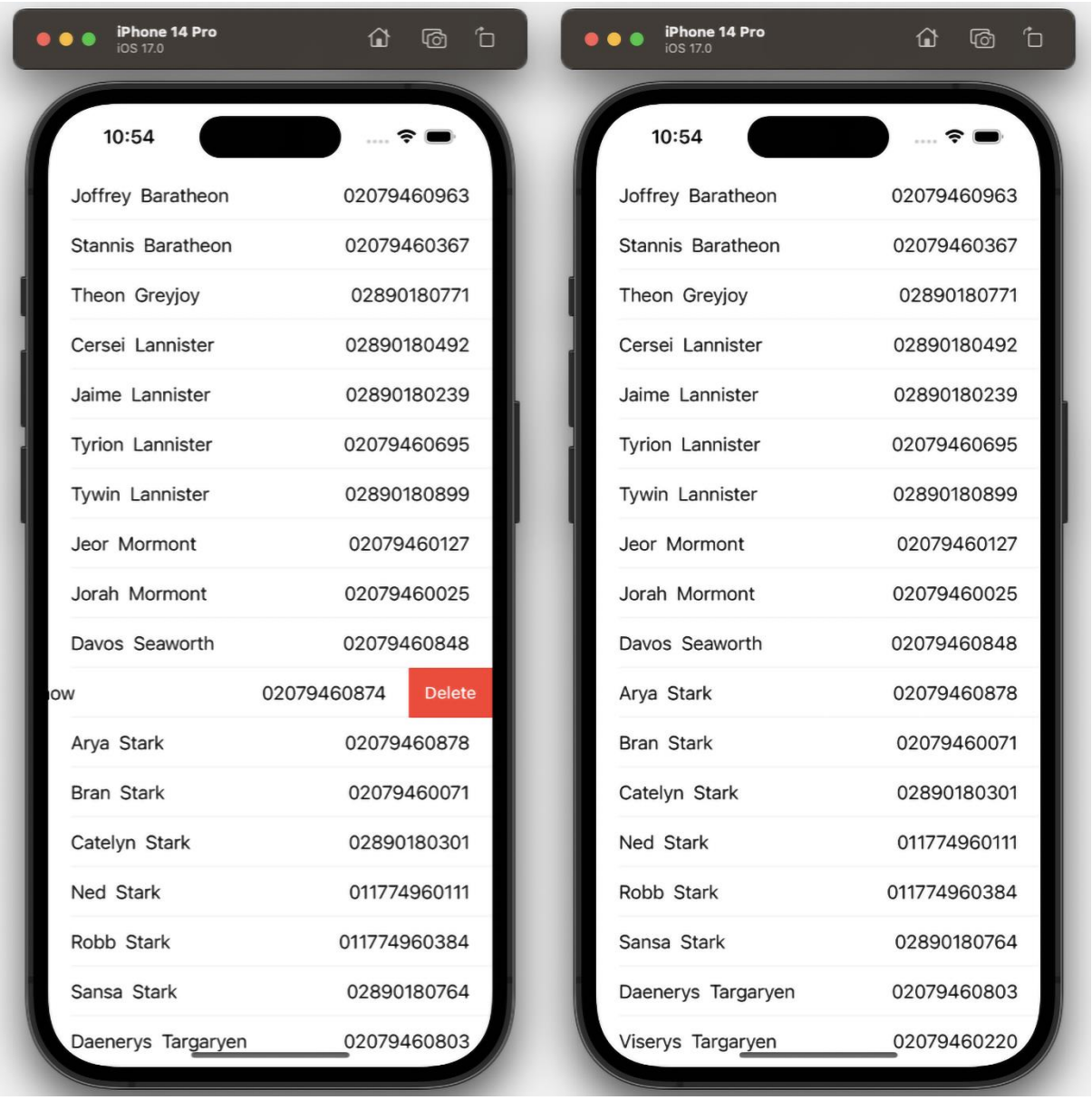

<NSManagedObjectContext: 0x60000390c4e0>

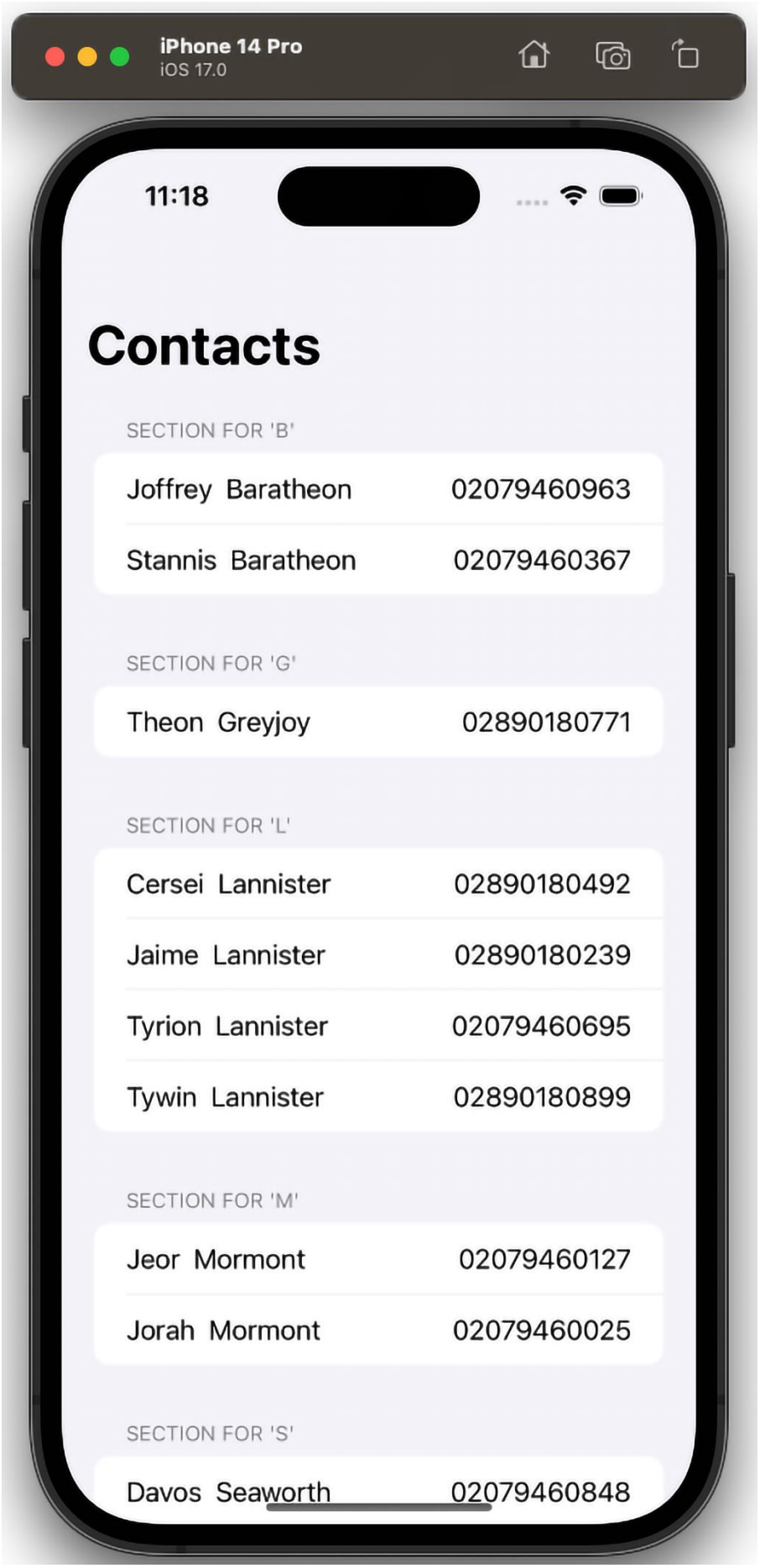

FetchContactsApp
FetchContactsApp
CoreDataStack
FetchContacts
FetchContacts
ContactsModel
FetchContactsApp
Contact
ENTITIES
Contact
COMPOSITE TYPES
FETCH REQUESTS
CONFIGURATIONS
Default
Attributes
Attribute
Type
firstName
String
lastName
String
phoneNumber
String
2
Relationships
Relationship
Destination
Inverse
Outline Style
1
Add Entity
Add Attribute
Entity
Name
Contact
Abstract Entity
Parent Entity
No Parent Entity
Class
Name
Contact
Module
Global namespace
3
Codegen
Class Definition
Constraints
No Content
Spotlight
Display Name
Expression
User Info

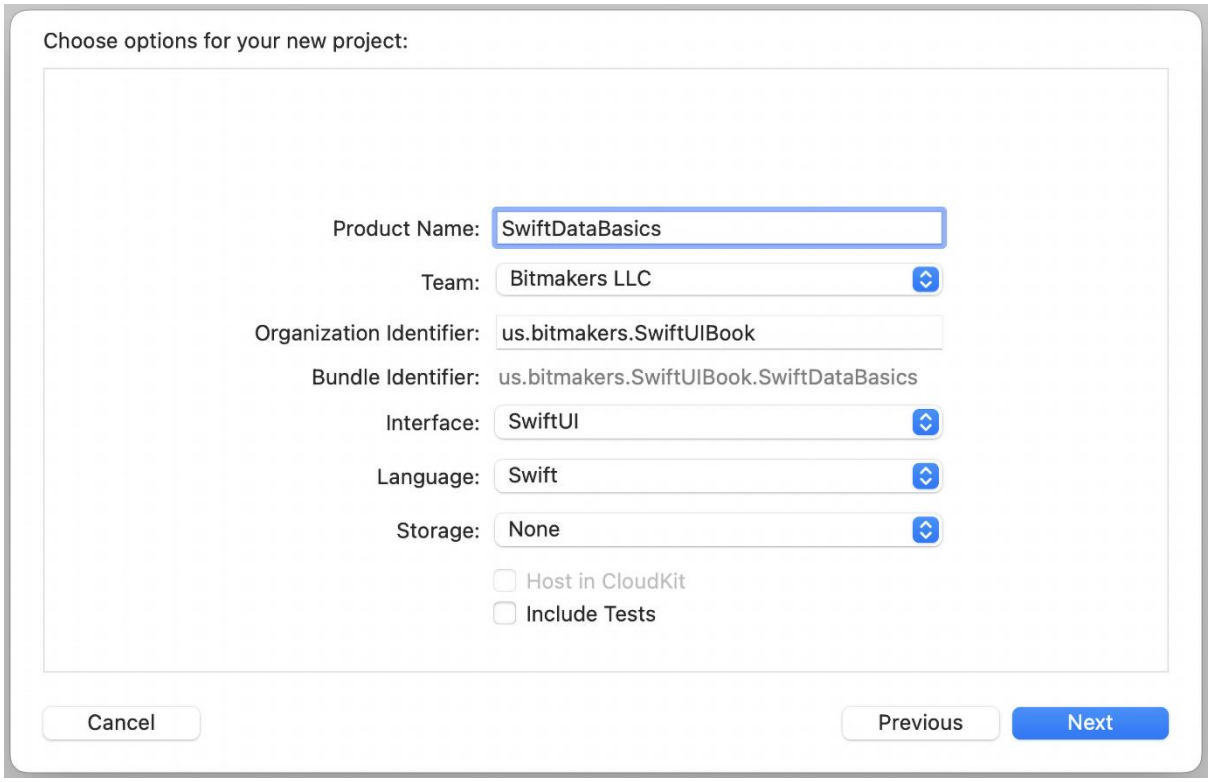

iPhone 14 Pro
iOS 17.0
8:22
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Jon Snow 02079460874
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384
Sansa Stark 02890180764
Daenerys Targaryen 02079460803

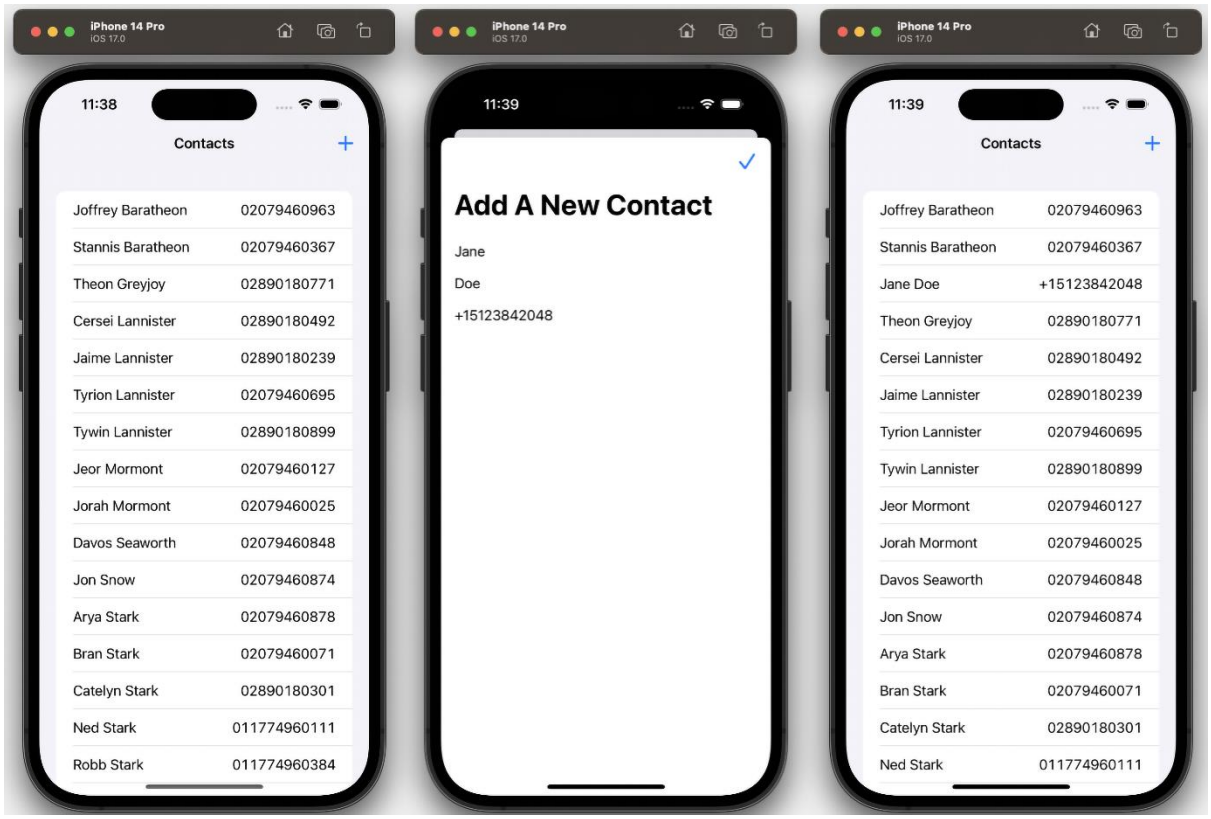

iPhone 14 Pro
iOS 17.0
8:56
Add A New Contact
Saul
Goodman
Phone Number
iPhone 14 Pro
iOS 17.0
8:58
Contacts
Saul Goodman 575-812-9701
Jesse Pinkman 505-724-2272
Skyler White 505-966-5006
Walter White 505-635-1874

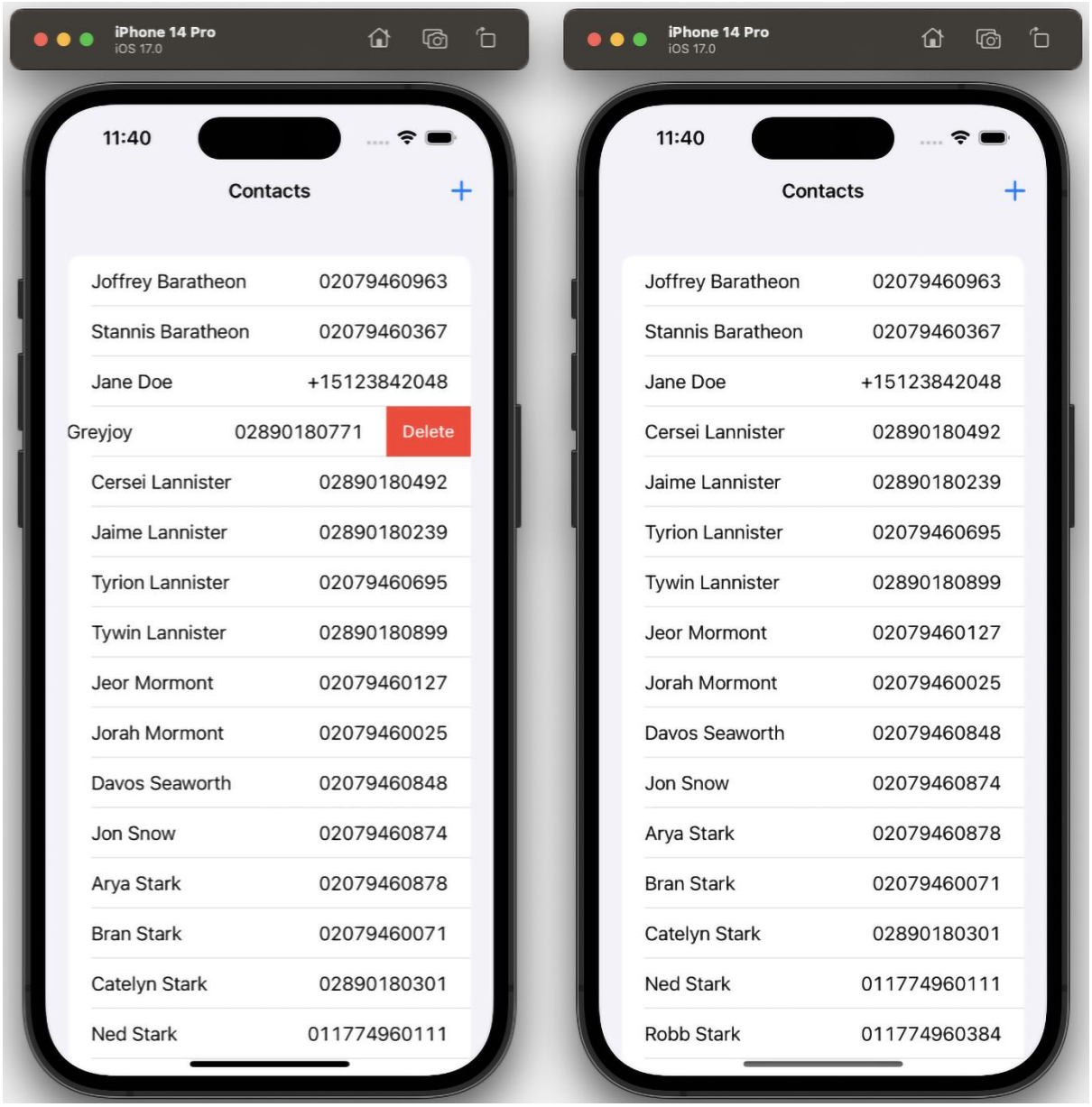

iPhone 14 Pro
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Contacts
Search
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Jon Snow 02079460874
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384
iPhone 14 Pro
iOS 17.0
7:10
Ta
Cancel
Daenerys Targaryen 02079460803
Viserys Targaryen 02079460220
Samwell Tarly 011774960104


iPhone 14 Pro
iOS 17.0
10:54
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
ow 02079460874 Delete
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384
Sansa Stark 02890180764
Daenerys Targaryen 02079460803
iPhone 14 Pro
iOS 17.0
10:54
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384
Sansa Stark 02890180764
Daenerys Targaryen 02079460803
Viserys Targaryen 02079460220


iPhone 14 Pro
iOS 17.0
11:18
Contacts
SECTION FOR 'B'
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
SECTION FOR 'G'
Theon Greyjoy 02890180771
SECTION FOR 'L'
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
SECTION FOR 'M'
Jeor Mormont 02079460127
Jorah Mormont 02079460025
SECTION FOR 'S'
Davos Seaworth 02079460848


Choose options for your new project:
Product Name: SwiftDataBasics
Team: Bitmakers LLC
Organization Identifier: us.bitmakers.SwiftUIBook
Bundle Identifier: us.bitmakers.SwiftUIBook.SwiftDataBasics
Interface: SwiftUI
Language: Swift
Storage: None
Host in CloudKit
Include Tests
Cancel
Previous
Next


iPhone 14 Pro
iOS 17.0
11:38
Contacts
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Jon Snow 02079460874
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384
11:39
Add A New Contact
Jane
Doe
+15123842048
11:39
Contacts
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Jane Doe +15123842048
Theon Greyjoy 02890180771
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
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Bran Stark 02079460071
Catelyn Stark 02890180301
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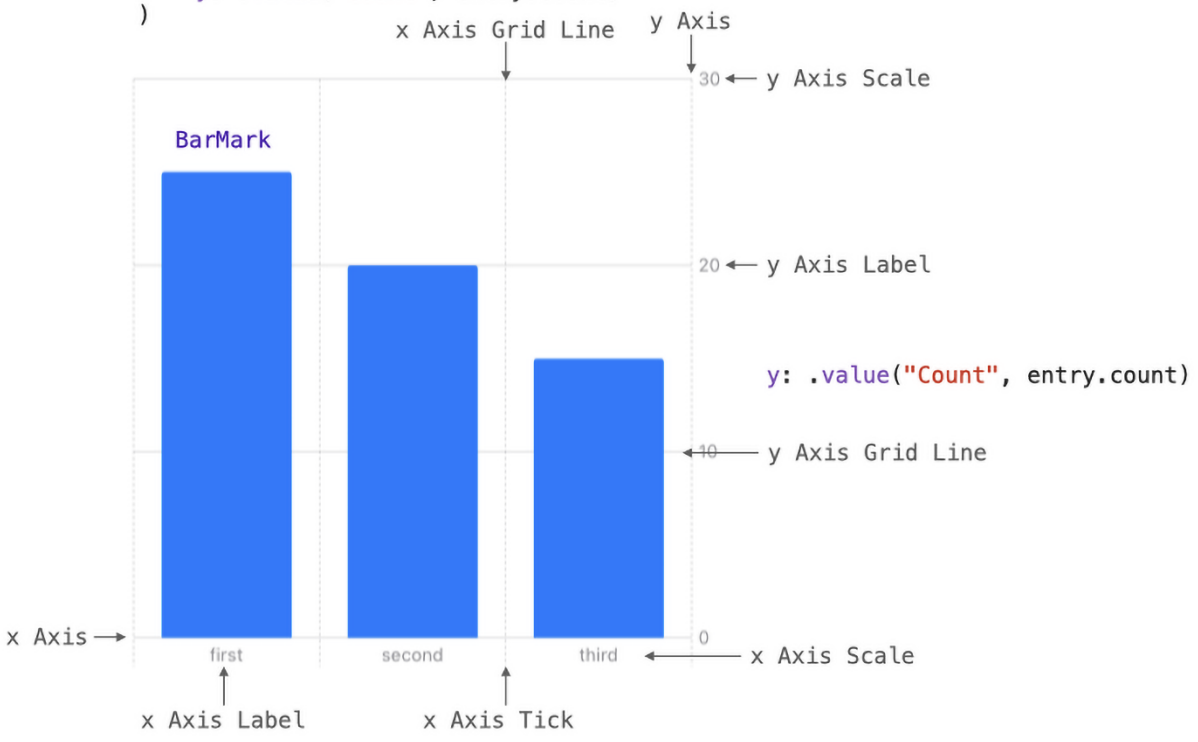

iPhone 14 Pro
iOS 17.0
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Contacts
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Stannis Baratheon 02079460367
Jane Doe +15123842048
Greyjoy 02890180771 Delete
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Jon Snow 02079460874
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
iPhone 14 Pro
iOS 17.0
11:40
Contacts
Joffrey Baratheon 02079460963
Stannis Baratheon 02079460367
Jane Doe +15123842048
Cersei Lannister 02890180492
Jaime Lannister 02890180239
Tyrion Lannister 02079460695
Tywin Lannister 02890180899
Jeor Mormont 02079460127
Jorah Mormont 02079460025
Davos Seaworth 02079460848
Jon Snow 02079460874
Arya Stark 02079460878
Bran Stark 02079460071
Catelyn Stark 02890180301
Ned Stark 011774960111
Robb Stark 011774960384

Chapter 15: Data Visualization with Swift Charts






```
BarMark(
    x: .value("Question", entry.question),
    y: .value("Count", entry.count)
)
```




```
x: .value("Question", entry.question)
```


Average Rainfall (in)
for Austin, TX in 2022
6
4
2
0
Jan
Apr
Jul
Oct
Average Rainfall (mm)
for Austin, TX in 2022
150
100
50
0
Jan
Apr
Jul
Oct


Average Rainfall (in)
for Austin, TX in 2022
6
4
2
0
2.2
2.0
2.8
2.1
4.4
4.3
1.9
2.4
3.0
3.9
3.0
2.4
Jan
Apr
Jul
Oct
Average Rainfall (mm)
for Austin, TX in 2022
150
100
50
0
56
51
70
53
112
110
48
60
76
99
75
61
Jan
Apr
Jul
Oct


Average Rainfall (in)
for Austin, TX in 2022
Average = 2.9
2.2
2.0
2.8
2.1
4.4
4.3
1.9
2.4
3.0
3.9
3.0
2.4
Jan
Apr
Jul
Oct
0
2
4
6
Average Rainfall (mm)
for Austin, TX in 2022
Average = 72.6
56
51
70
53
112
110
48
60
76
99
75
61
Jan
Apr
Jul
Oct
0
50
100
150

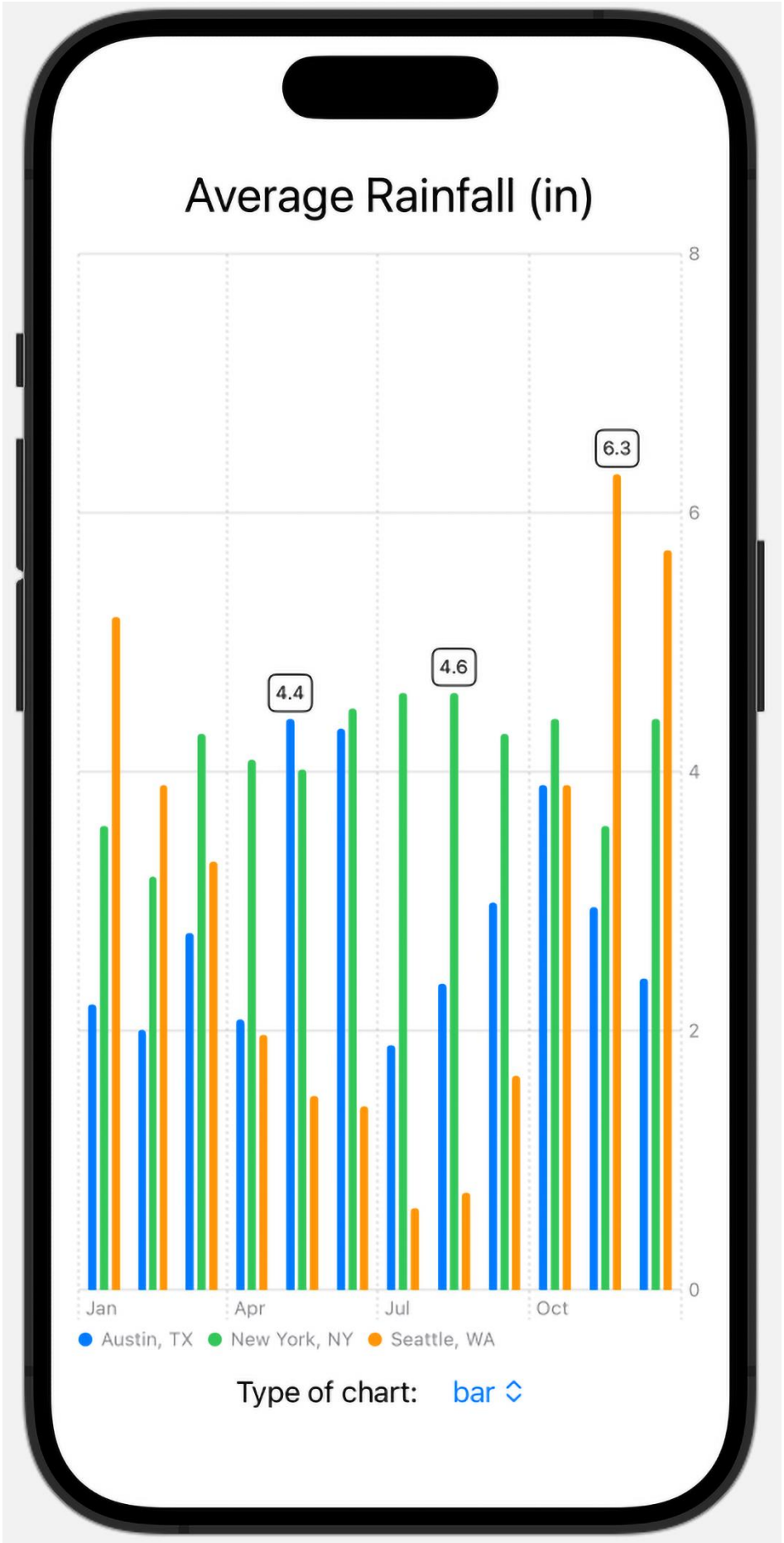

Average Rainfall (in)
for Austin, TX in 2022
6
4
2
0
Average = 2.9
2.2
2.0
2.8
2.1
4.4
4.3
1.9
2.4
3.0
3.9
3.0
2.4
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
J
F
M
A
M
J
J
A
S
O
N
D

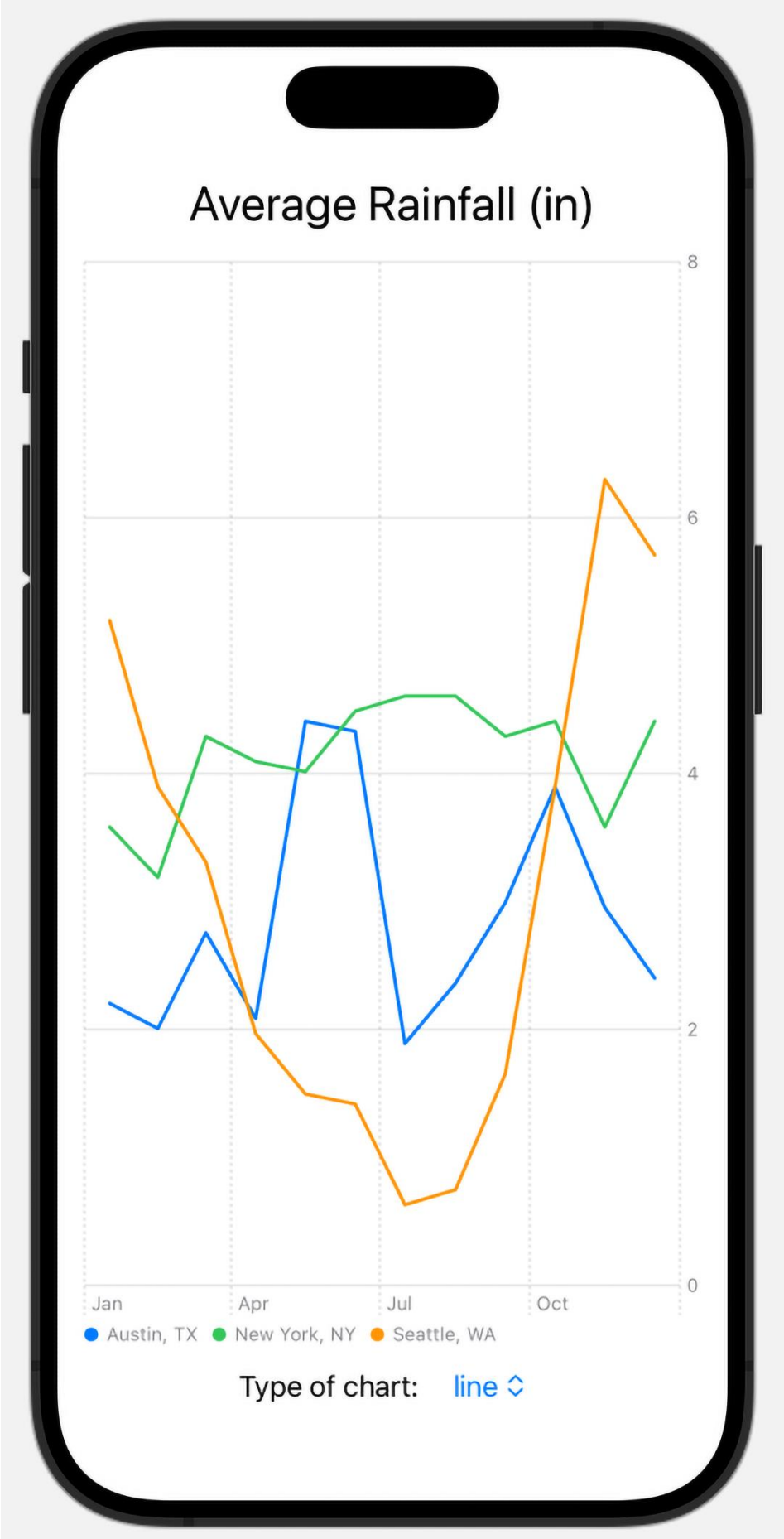

Average Rainfall (in)
for Austin, TX in 2022
Average = 2.9
2.2
2.0
2.8
2.1
4.4
4.3
1.9
2.4
3.0
3.9
3.0
2.4
J F M A M J J A S O N D
5.0
4.0
3.0
2.0
1.0
0.0
Average Rainfall (mm)
for Austin, TX in 2022
Average = 72.6
56
51
70
53
112
110
48
60
76
99
75
61
J F M A M J J A S O N D
120.0
100.0
80.0
60.0
40.0
20.0
0.0

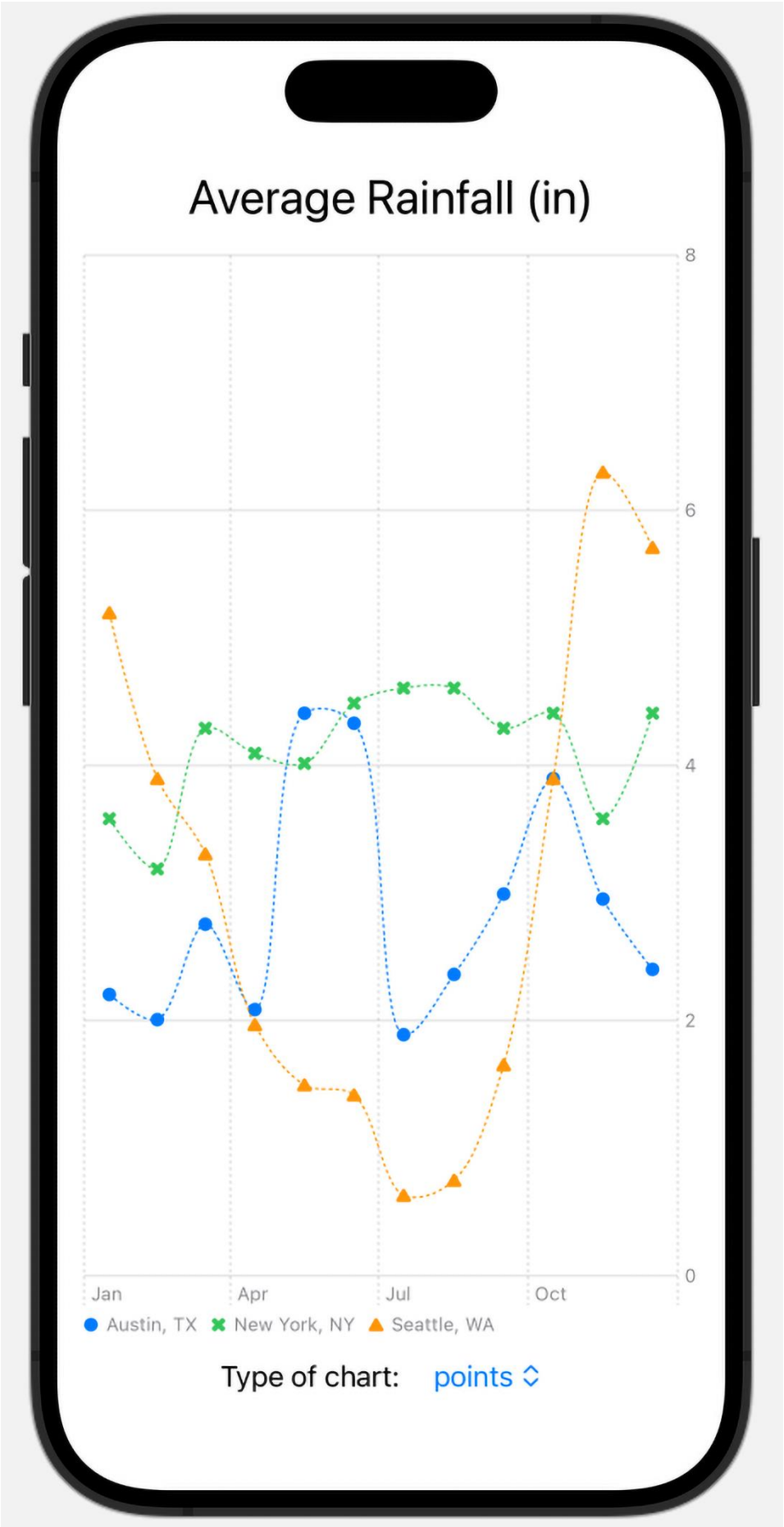

Average Rainfall (in)
for Austin, TX in 2022
Average = 2.9
2.2
2.0
2.8
2.1
4.4
4.3
1.9
2.4
3.0
3.9
3.0
2.4
J F M A M J J A S O N D
5.0
4.0
3.0
2.0
1.0
0.0
Average Rainfall (mm)
for Austin, TX in 2022
Average = 72.6
56
51
70
53
112
110
48
60
76
99
75
61
J F M A M J J A S O N D
120.0
100.0
80.0
60.0
40.0
20.0
0.0

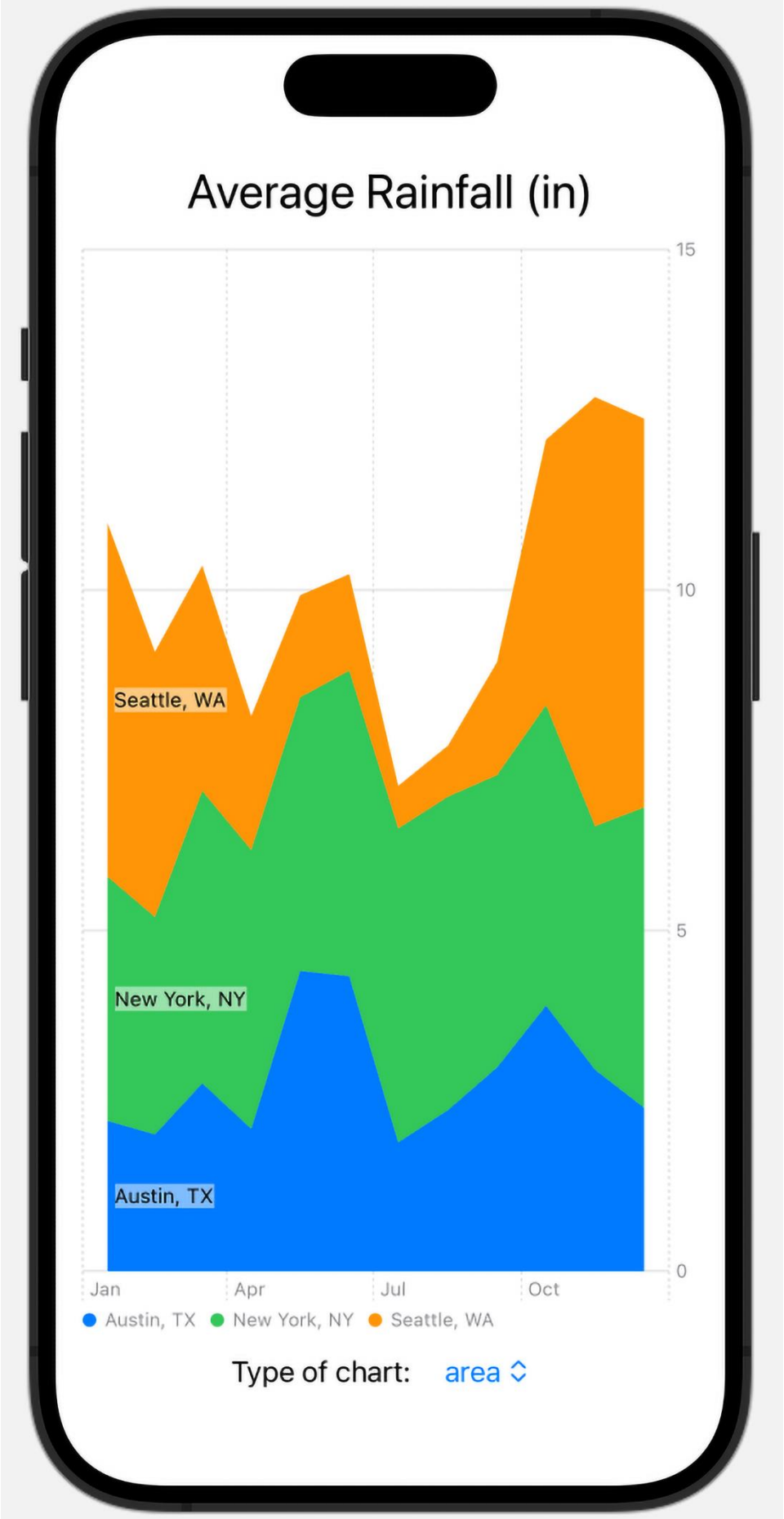

Rainfall
Temperatures
Rainfall
Temperatures

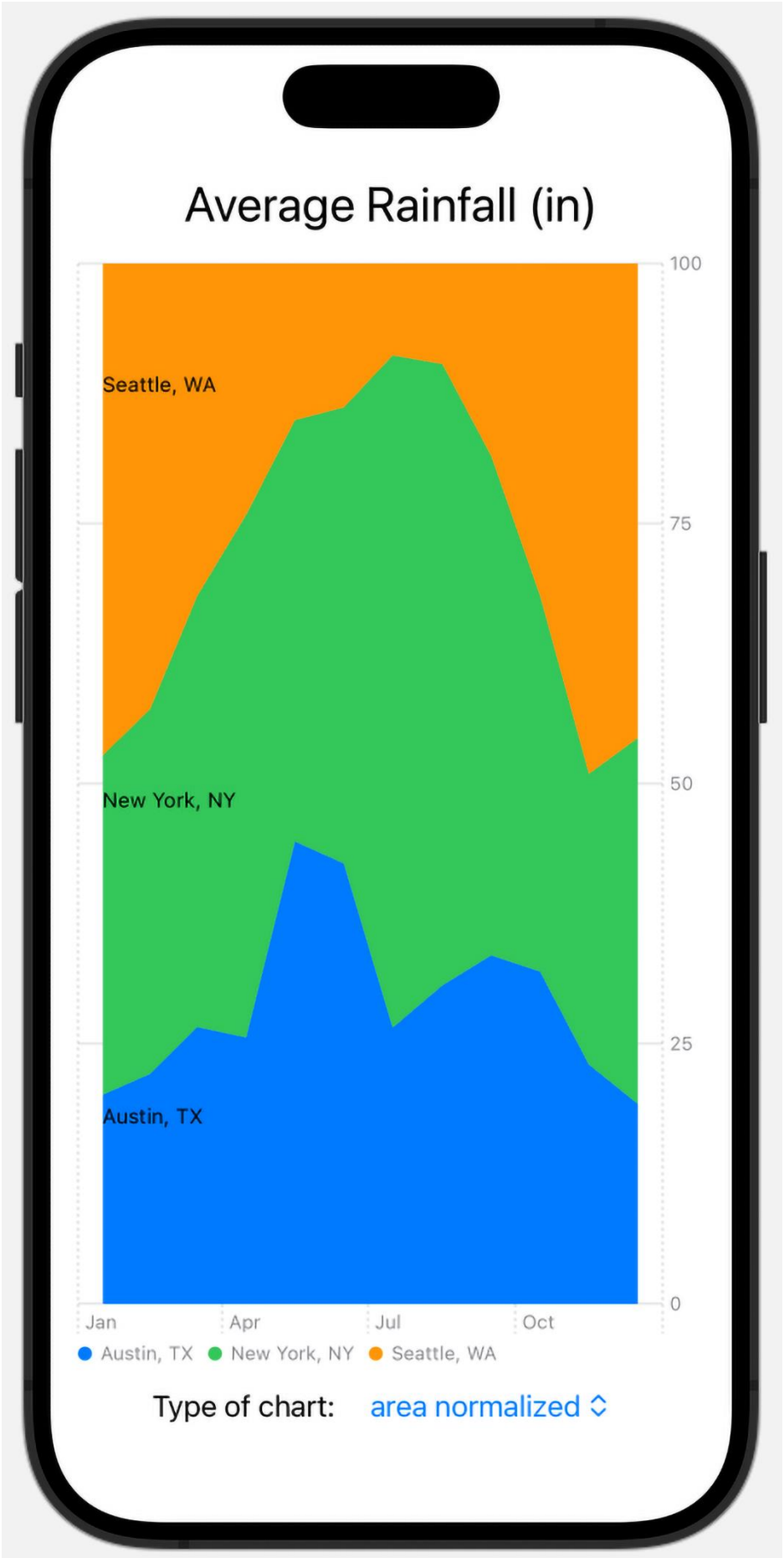

Average Rainfall (in)
bar
line
points
area
area normalized
Oct
Type of chart:
bar

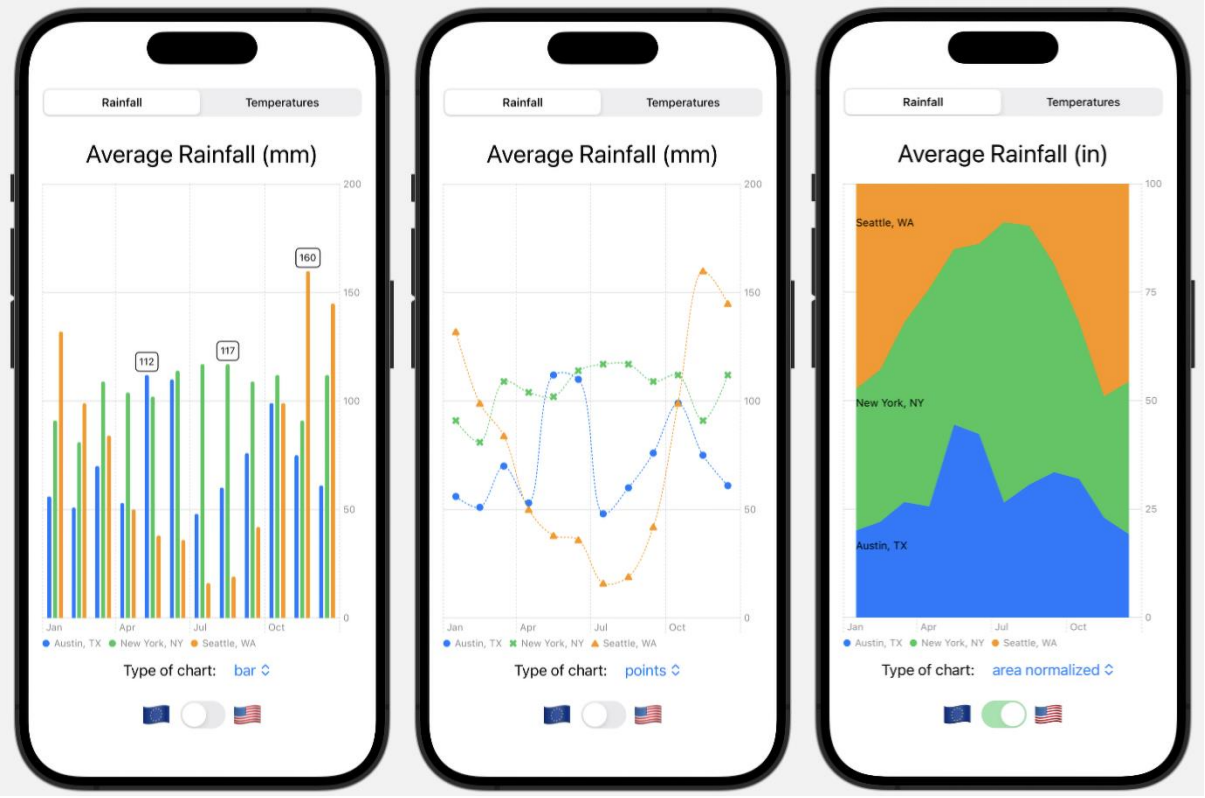

Average Rainfall (in)
8
6
4
2
0
6.3
4.6
4.4
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
bar

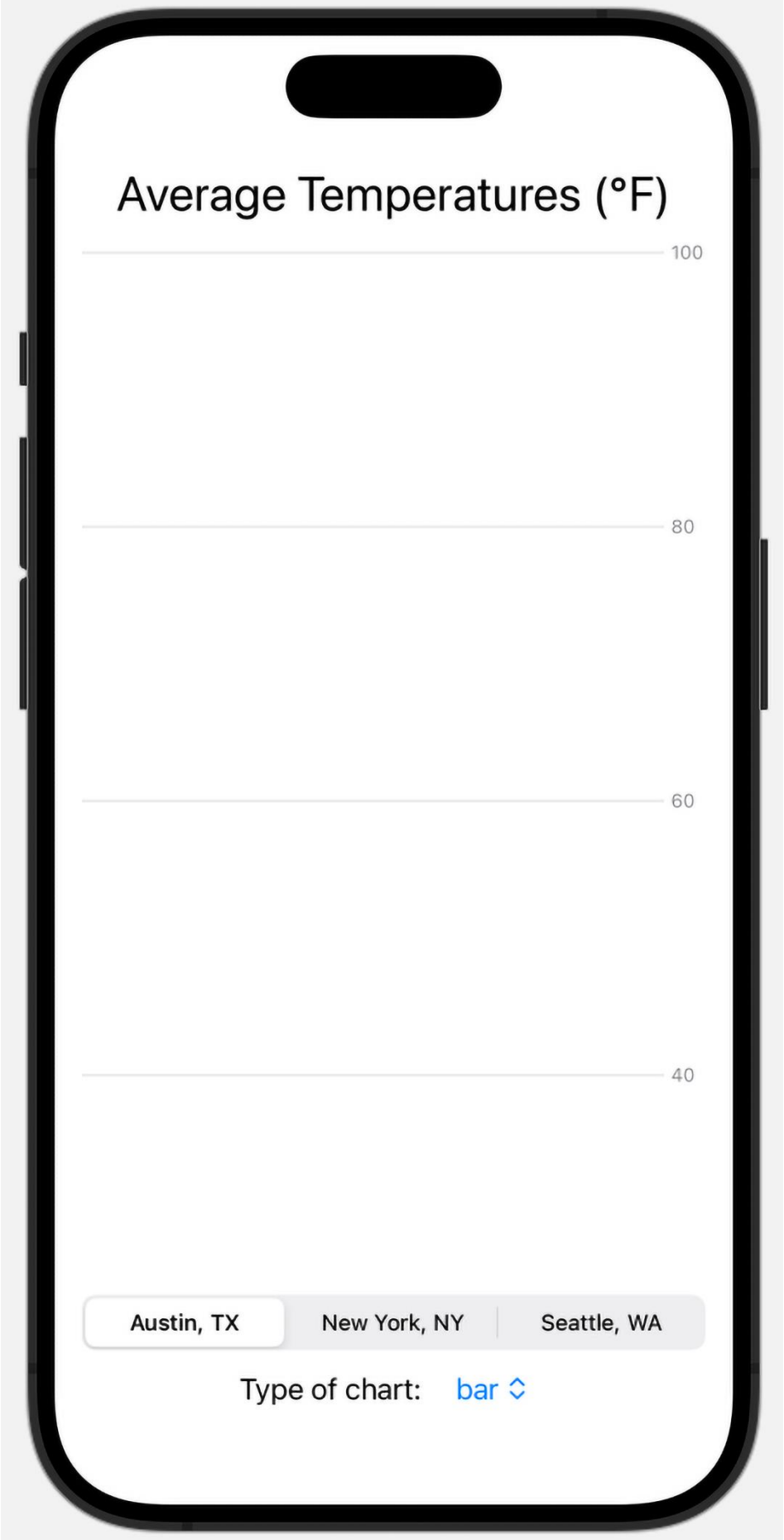

Average Rainfall (in)
8
6
4
2
0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
line


Average Rainfall (in)
8
6
4
2
0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
points


Average Rainfall (in)
15
10
5
0
Seattle, WA
New York, NY
Austin, TX
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
area

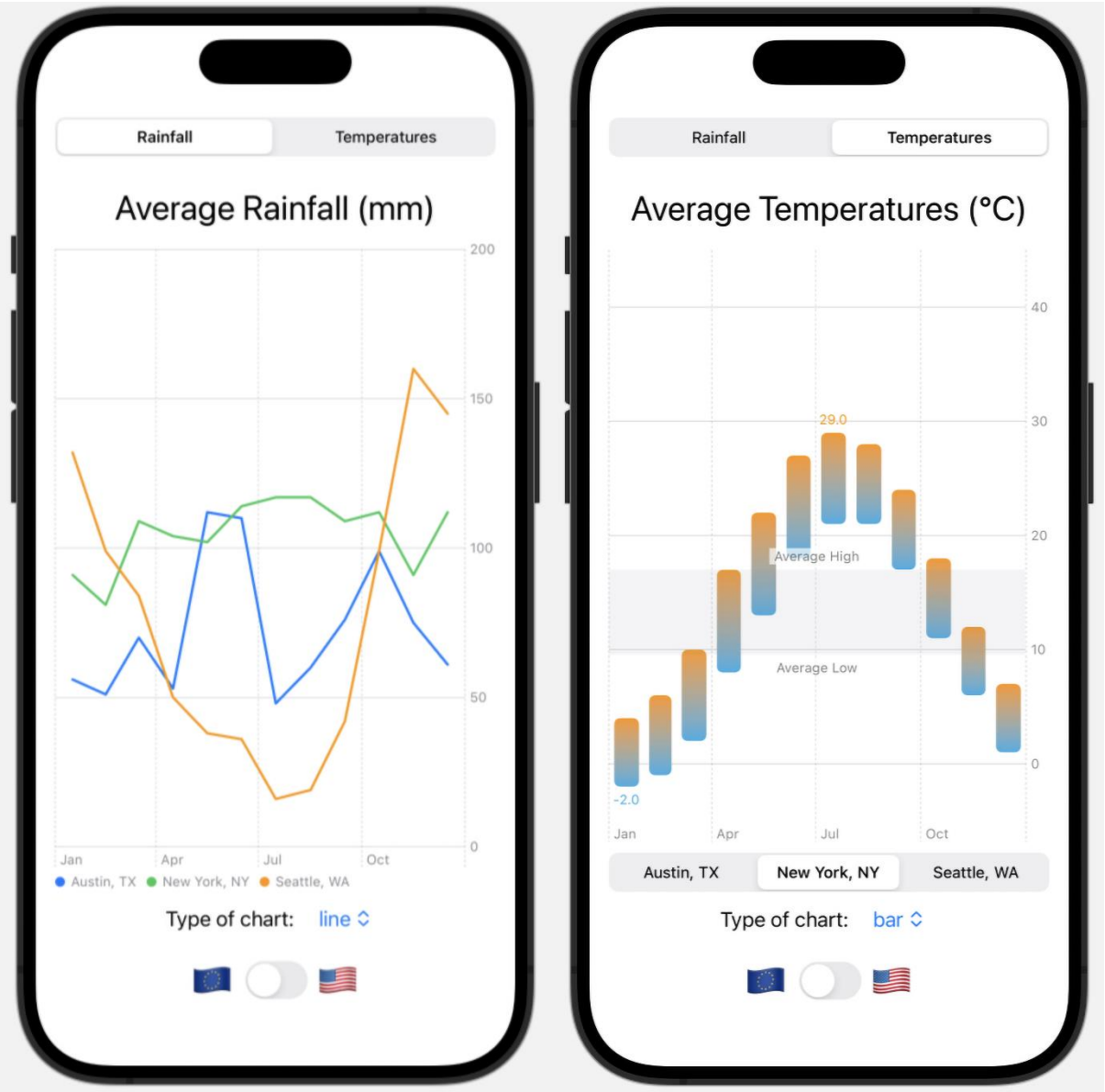

Average Rainfall (in)
Seattle, WA
New York, NY
Austin, TX
100
75
50
25
0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
area normalized

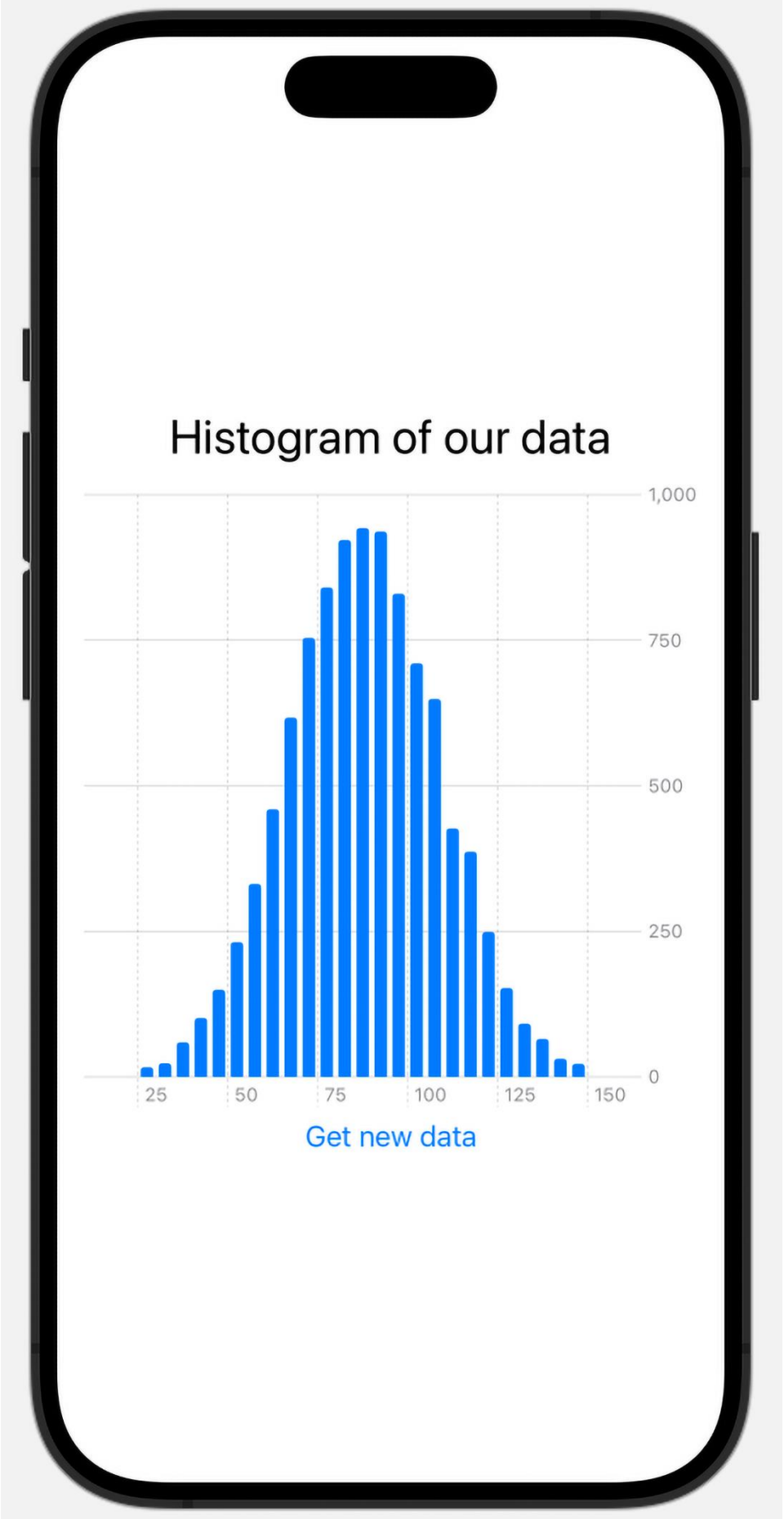

Rainfall
Temperatures
Average Rainfall (mm)
200
150
100
50
0
112
117
160
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: bar
Rainfall
Temperatures
Average Rainfall (mm)
200
150
100
50
0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: points
Rainfall
Temperatures
Average Rainfall (in)
100
75
50
25
0
Seattle, WA
New York, NY
Austin, TX
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: area normalized


Average Temperatures (°F)
100
80
60
40
Austin, TX
New York, NY
Seattle, WA
Type of chart:
bar


Average Temperatures (°F)
100
80
60
40
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: bar
Average Temperatures (°F)
100
80
60
40
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: area

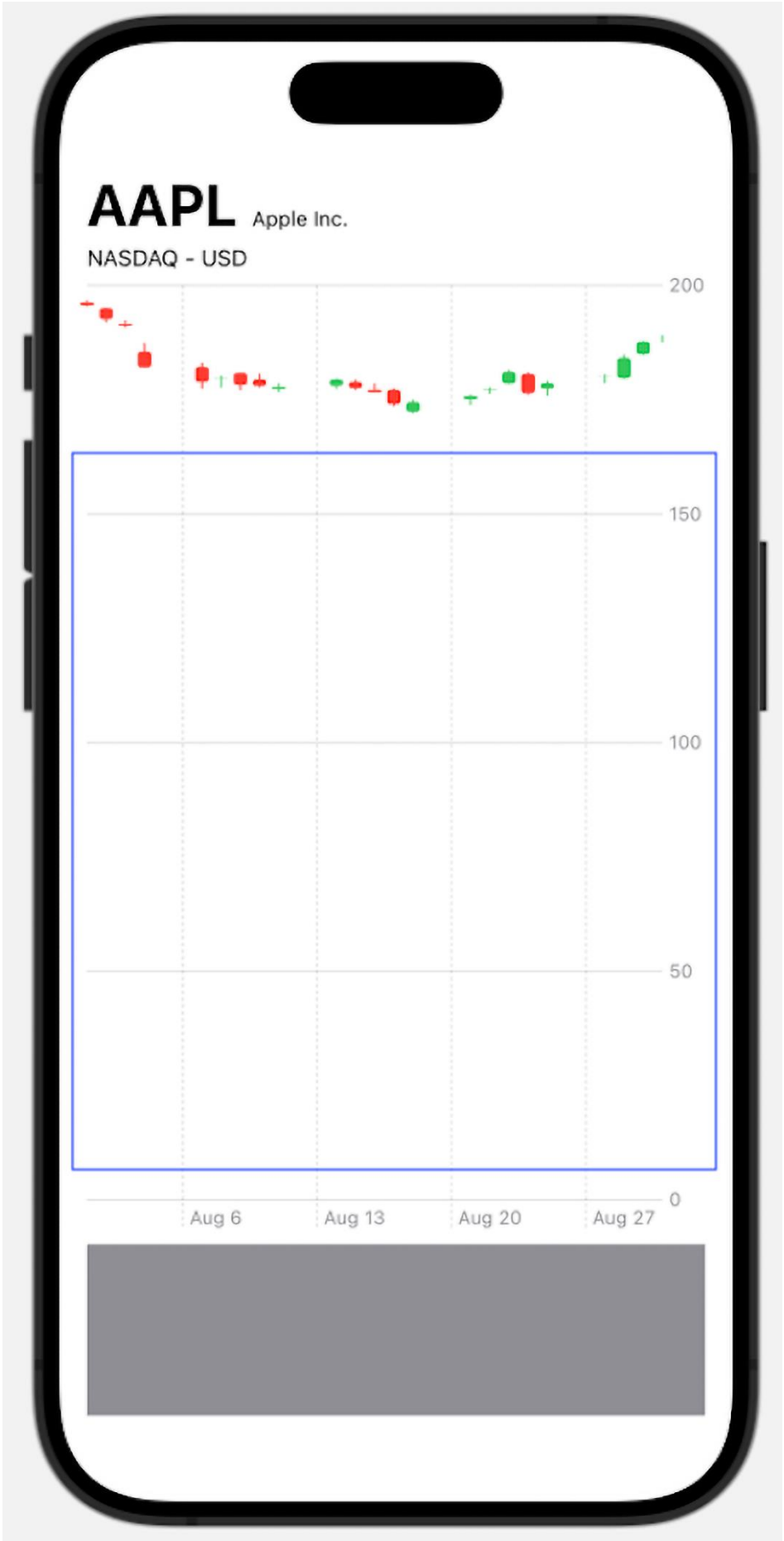

Average Temperatures (°F)
100
80
60
40
78.8
Average High
Average Low
35.6
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: bar
Average Temperatures (°F)
100
80
60
40
Average High = 62.6
Average Low = 49.2
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart: area

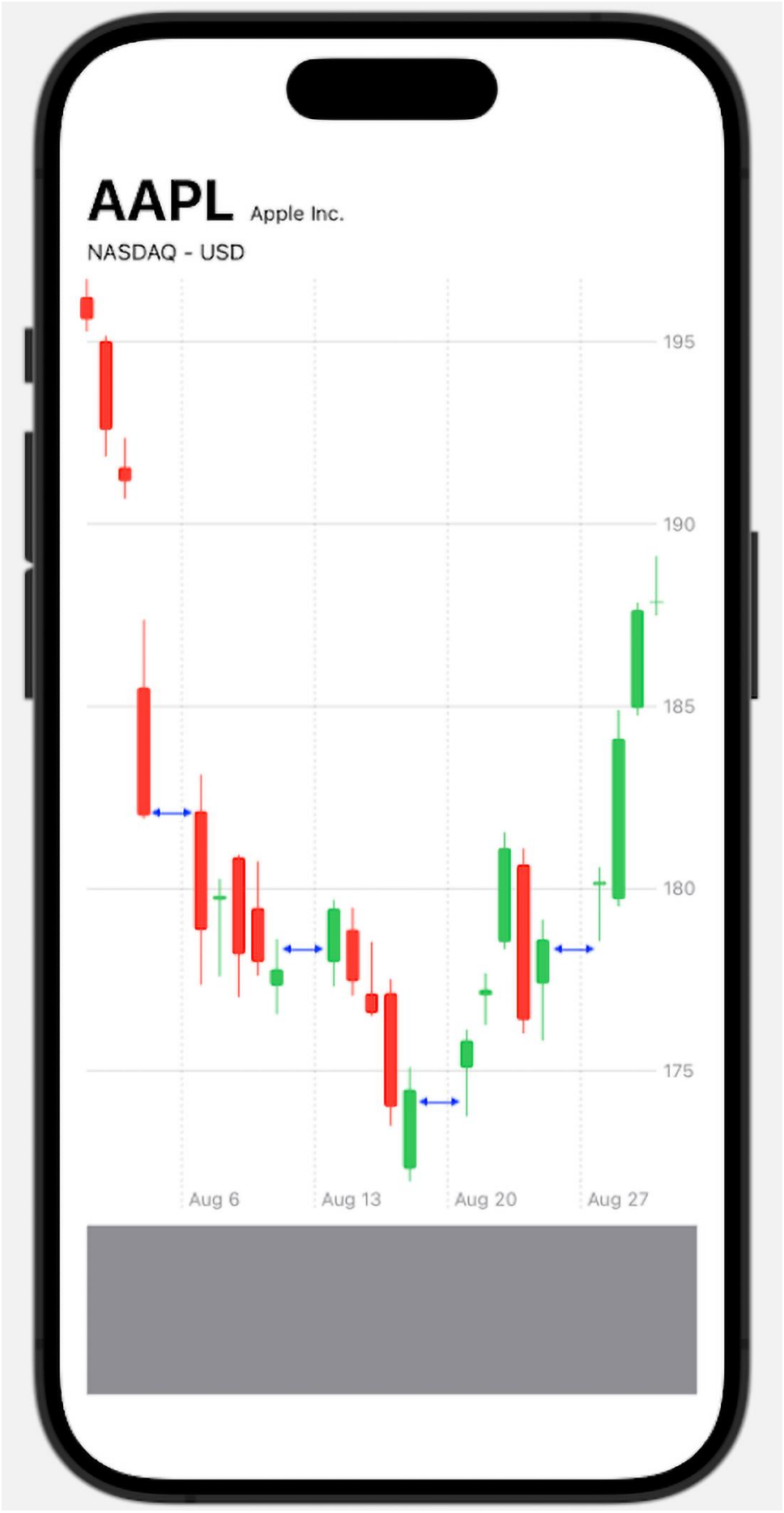

Rainfall
Temperatures
Average Rainfall (mm)
200
150
100
50
0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
line
Rainfall
Temperatures
Average Temperatures (°C)
40
30
20
10
0
29.0
Average High
Average Low
-2.0
Jan
Apr
Jul
Oct
Austin, TX
New York, NY
Seattle, WA
Type of chart:
bar

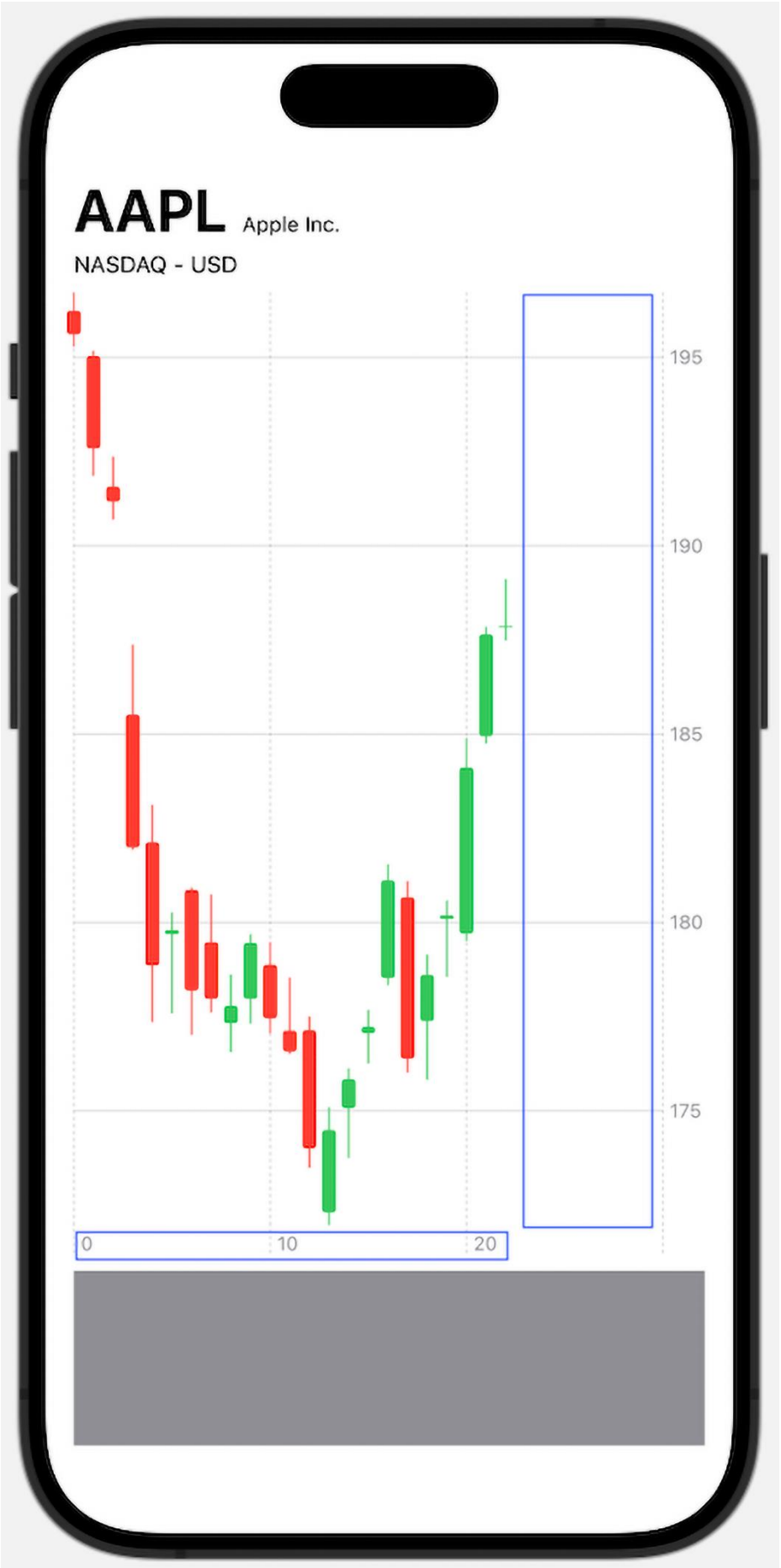

Histogram of our data
1,000
750
500
250
0
25
50
75
100
125
150
Get new data

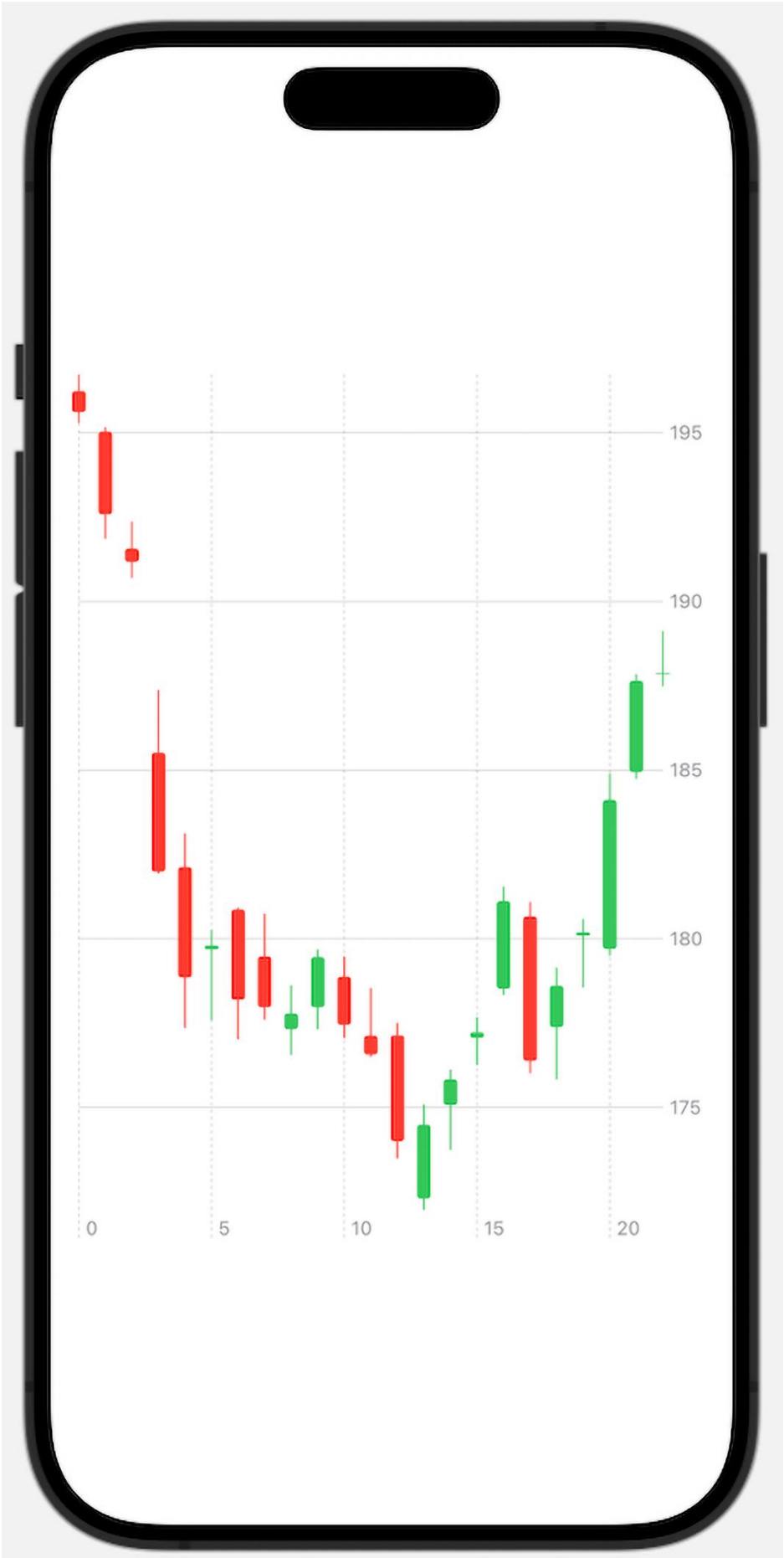

Pie Chart
Donut Chart
Sales by City
Houston
Dallas
San Antonio
Austin
Pie Chart
Donut Chart
Sales by City
Houston
Dallas
San Antonio
Austin

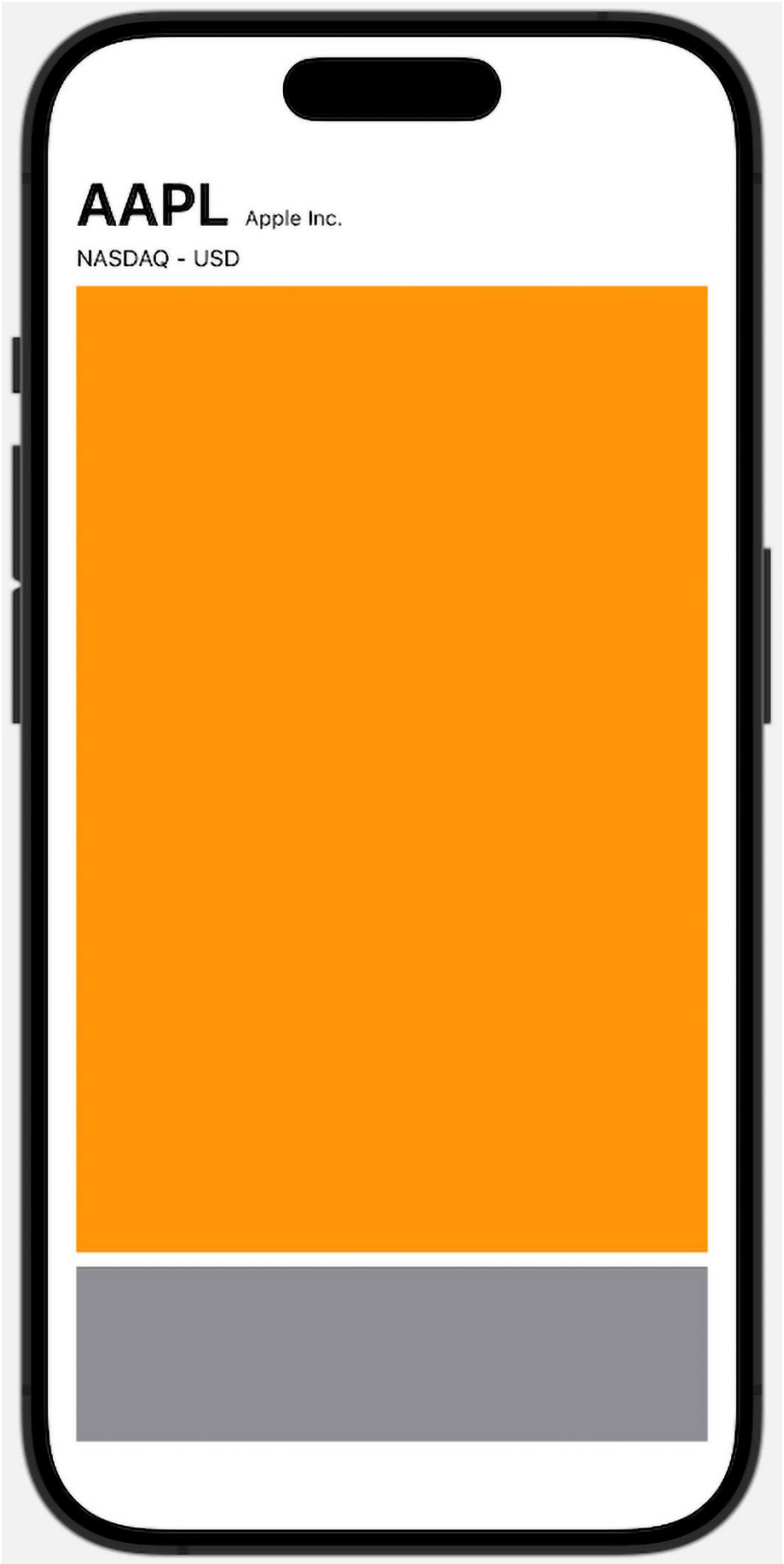

Pie Chart
Donut Chart
Sales by City
$5.32M
$10.39M
$35.56M
$18.40M
Houston
Dallas
San Antonio
Austin
Pie Chart
Donut Chart
Sales by City
Austin
$5.32M
San Antonio
$10.39M
Houston
$35.56M
Dallas
$18.40M

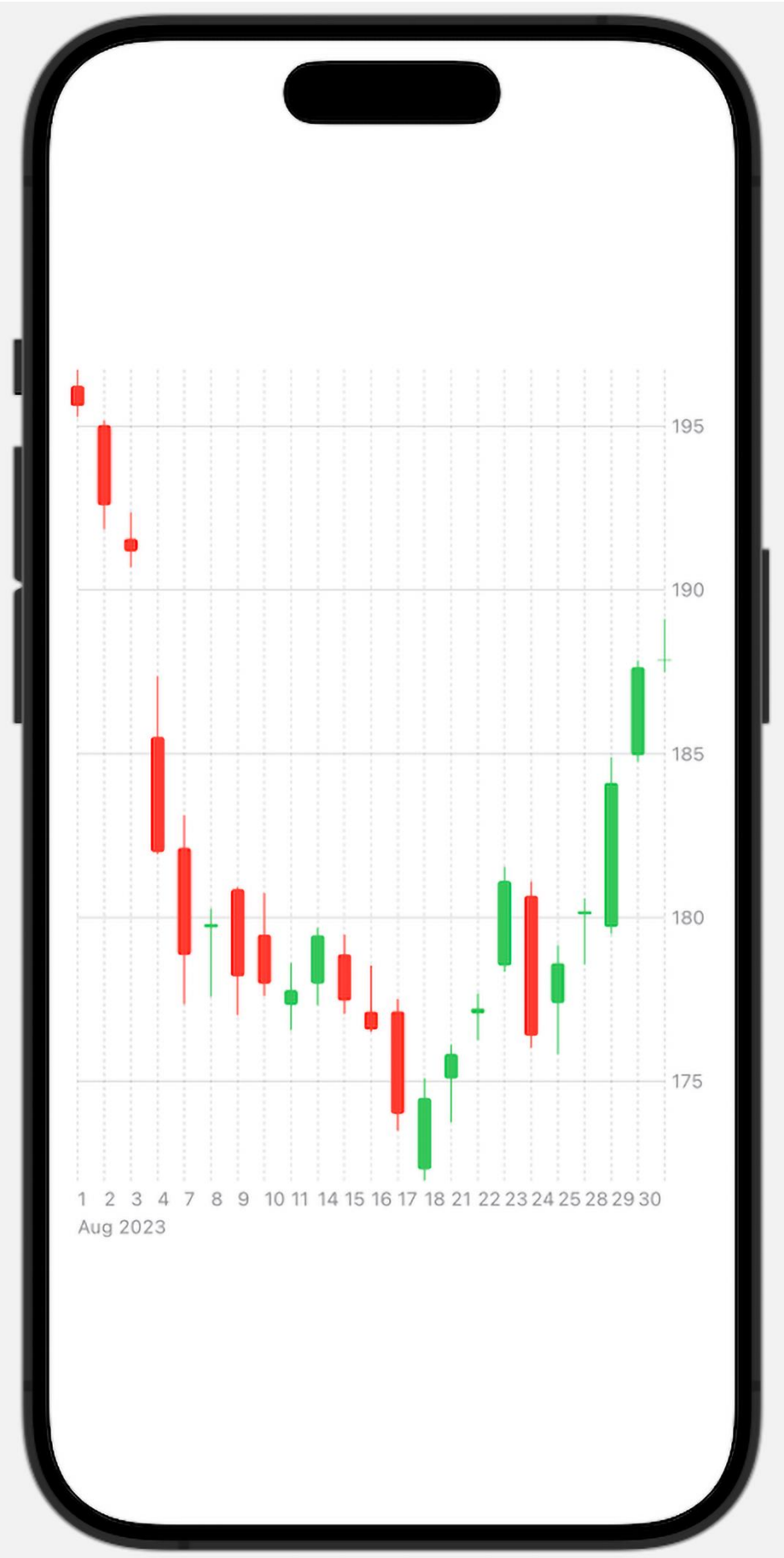

AAPL
Apple Inc.
NASDAQ - USD
200
150
100
50
0
Aug 6
Aug 13
Aug 20
Aug 27

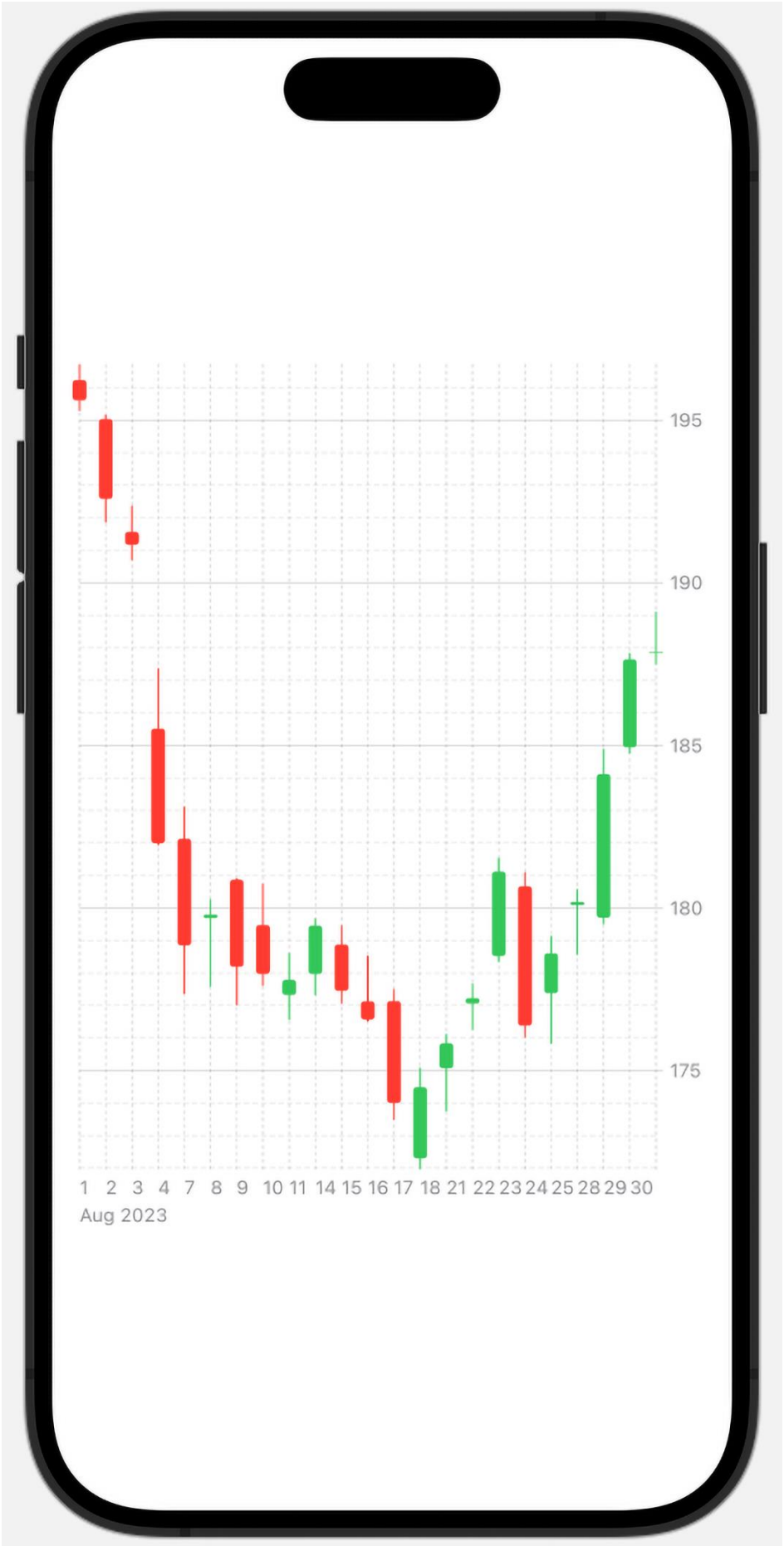

AAPL
Apple Inc.
NASDAQ - USD
195
190
185
180
175
Aug 6
Aug 13
Aug 20
Aug 27

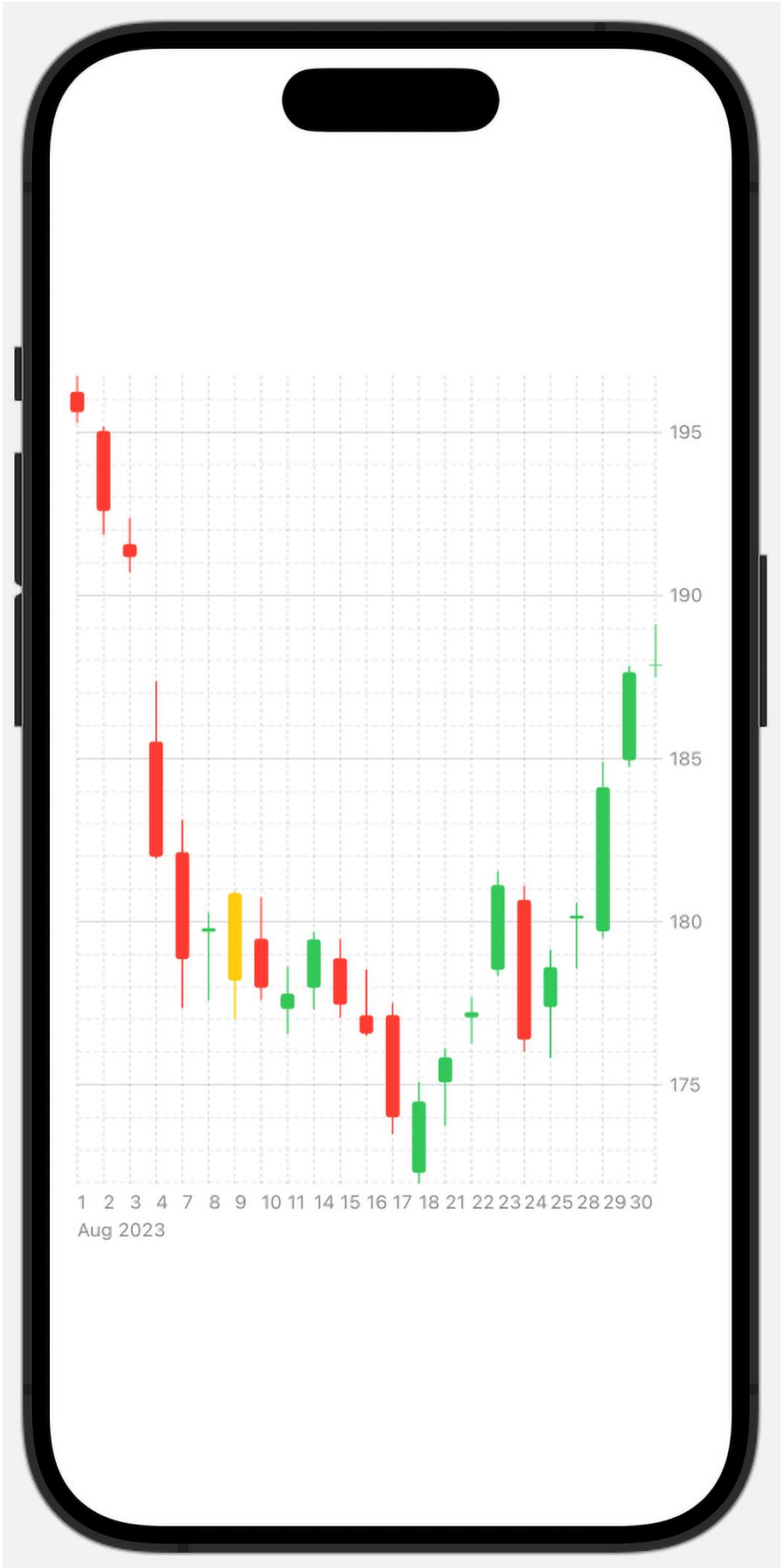

AAPL
Apple Inc.
NASDAQ - USD
195
190
185
180
175
0
10
20

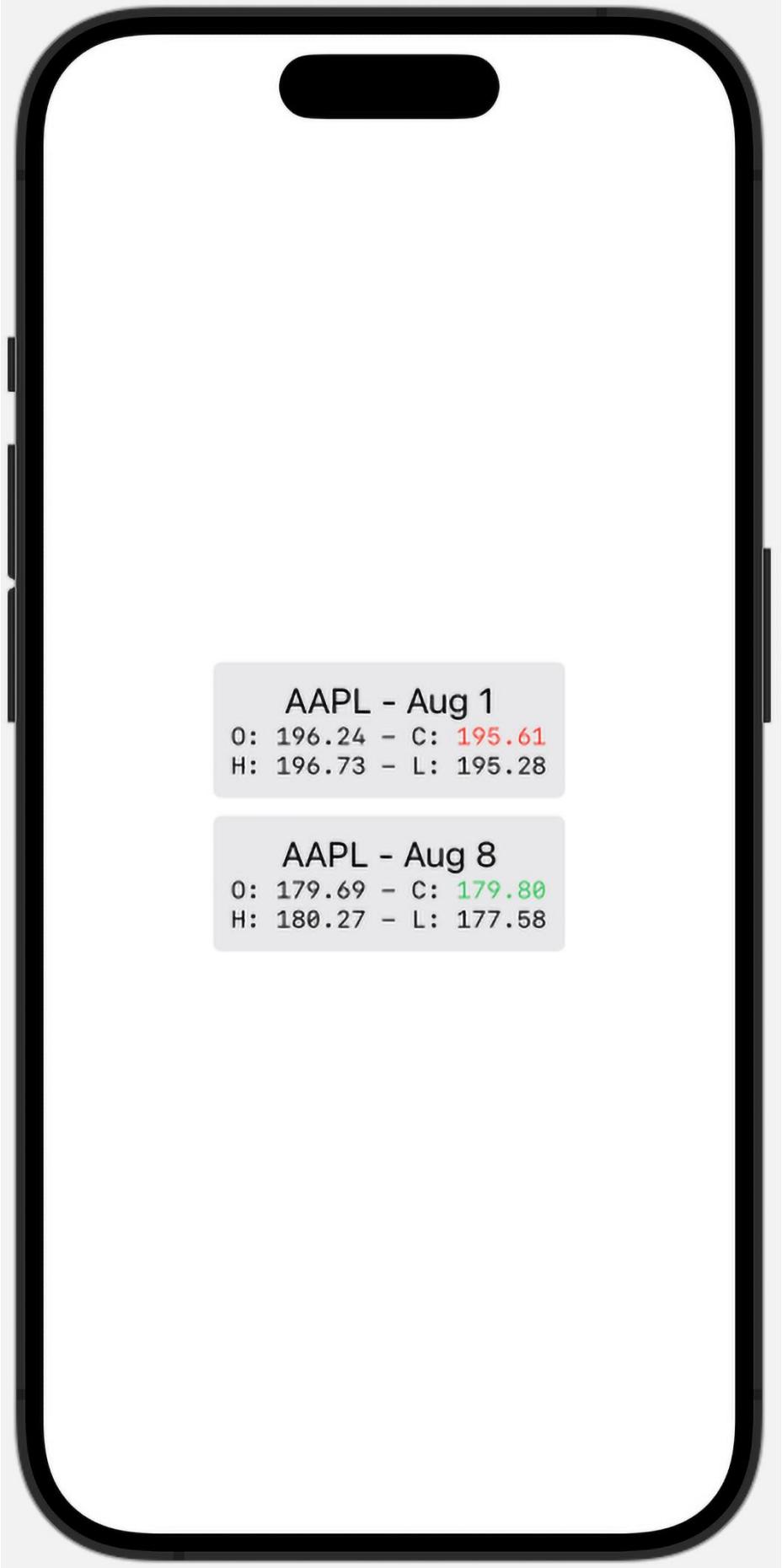

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190
185
180
175
0
5
10
15
20

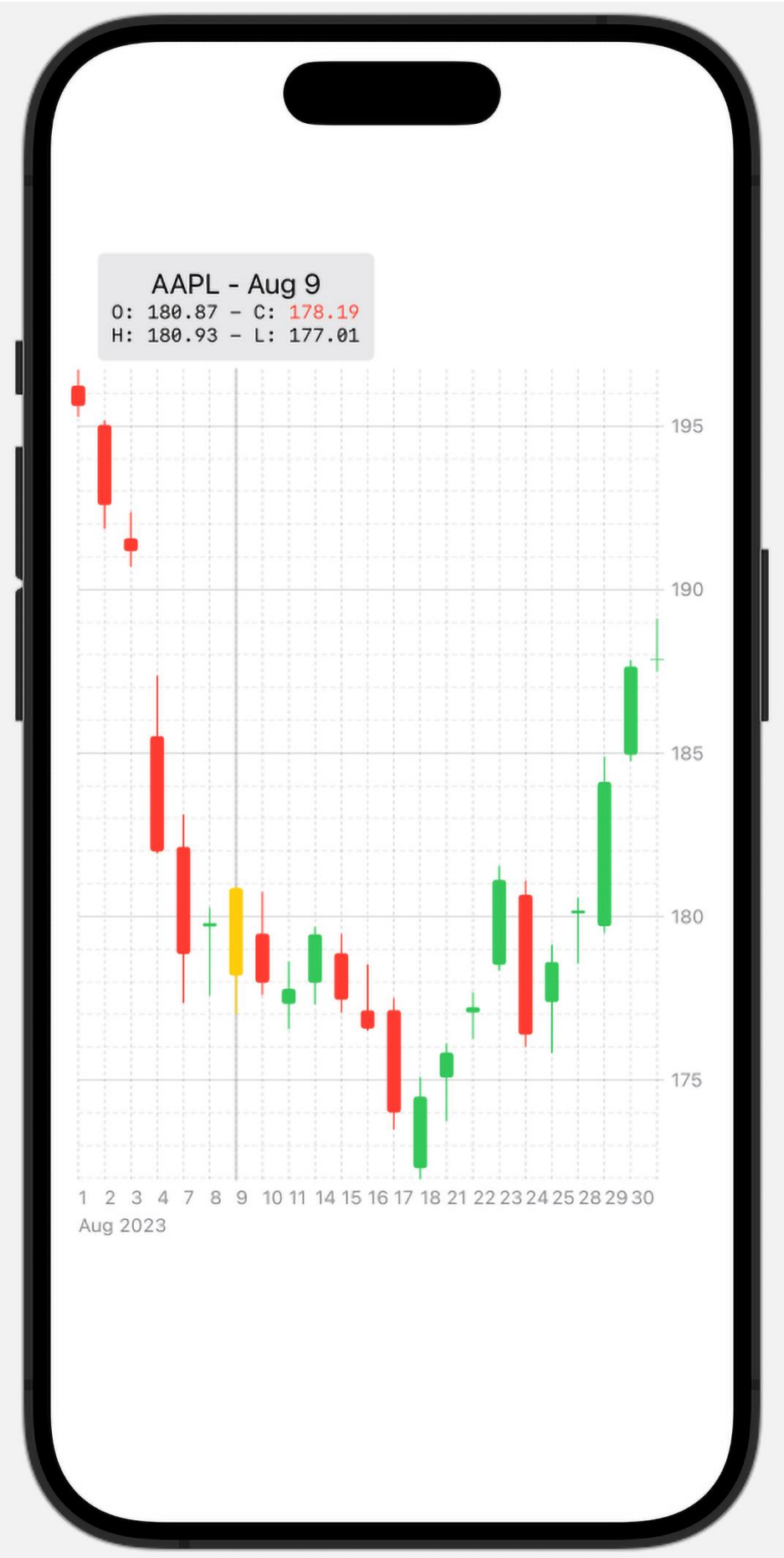

AAPL Apple Inc.
NASDAQ - USD

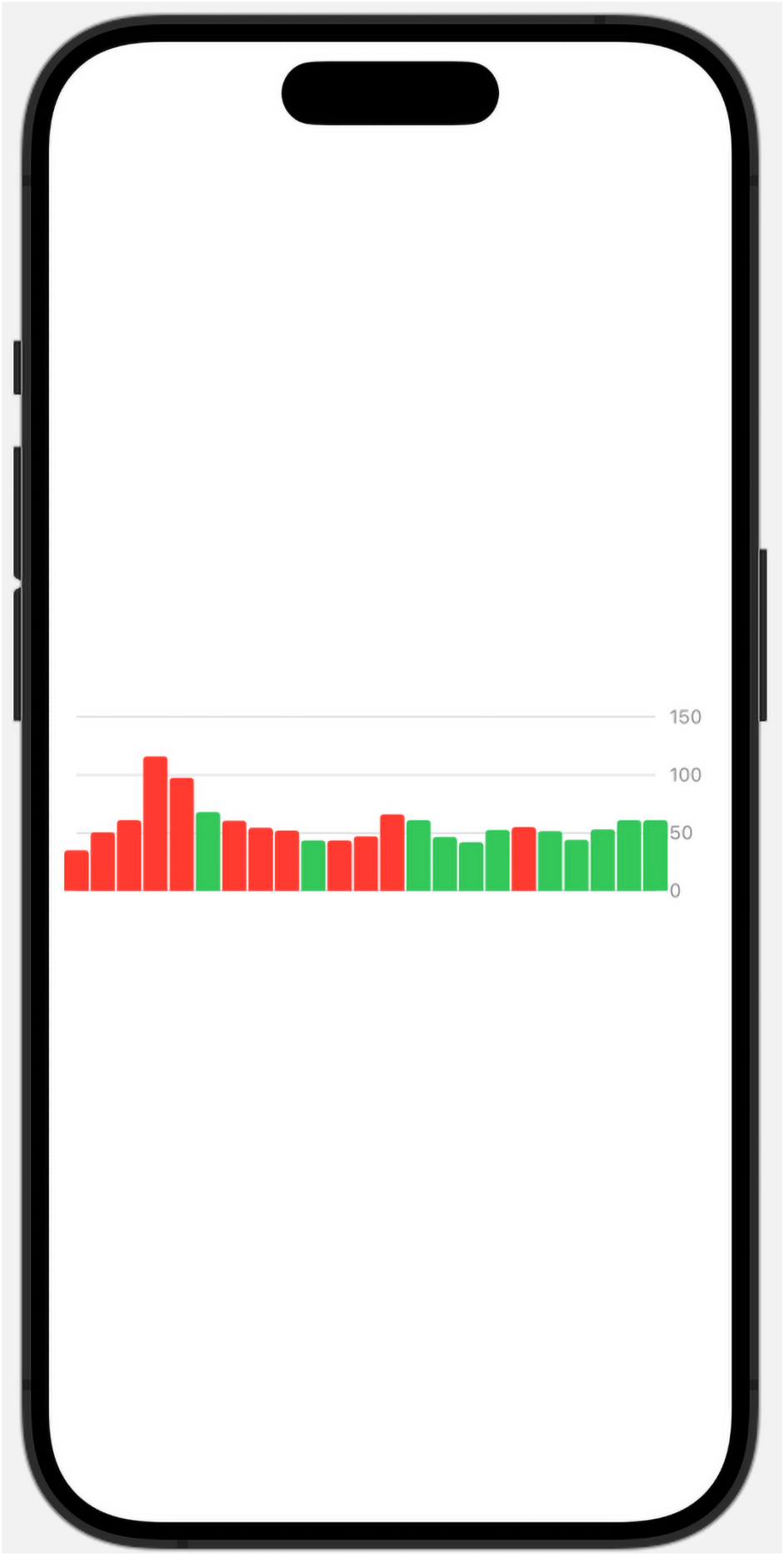

195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023

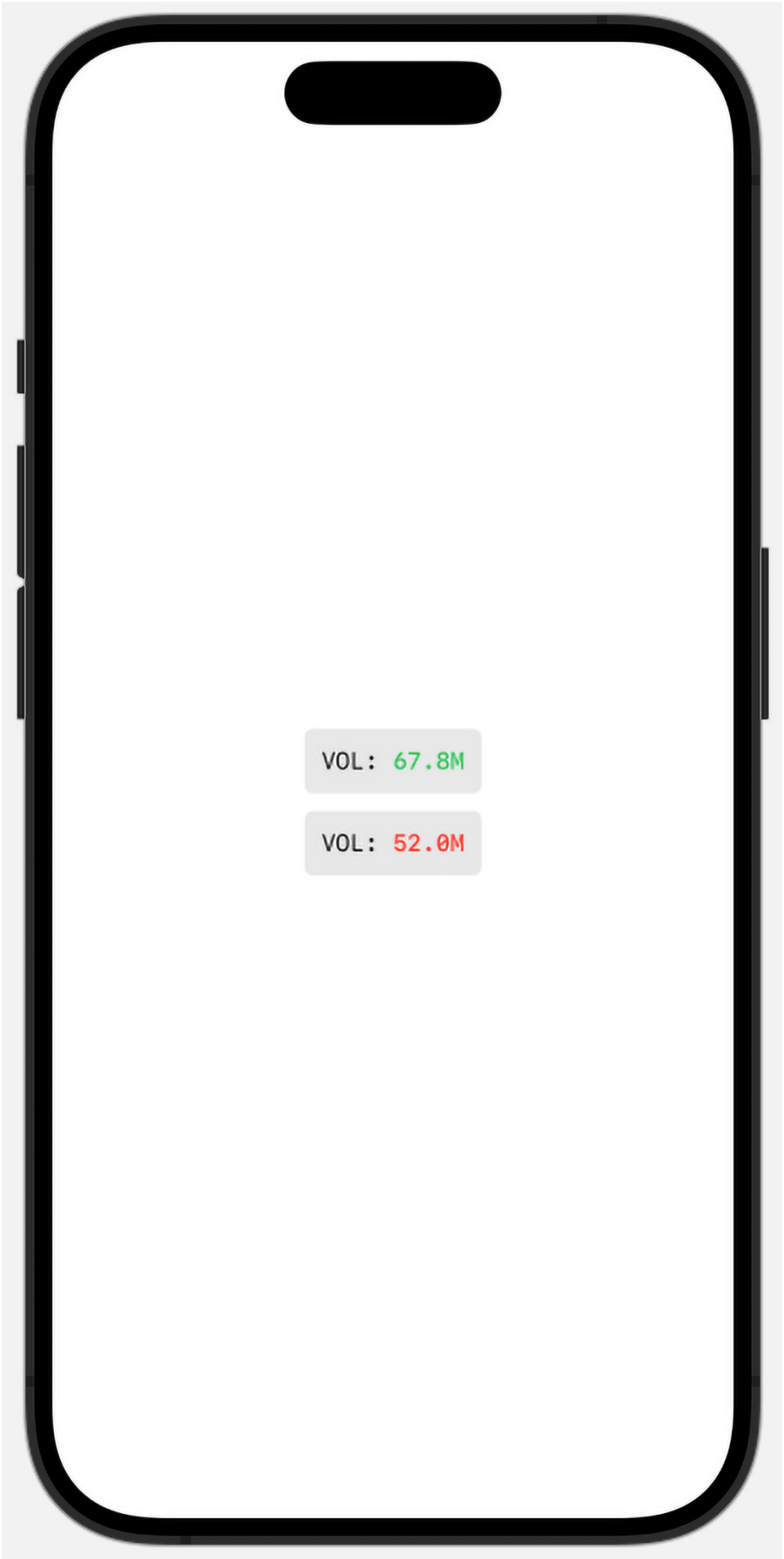

195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023

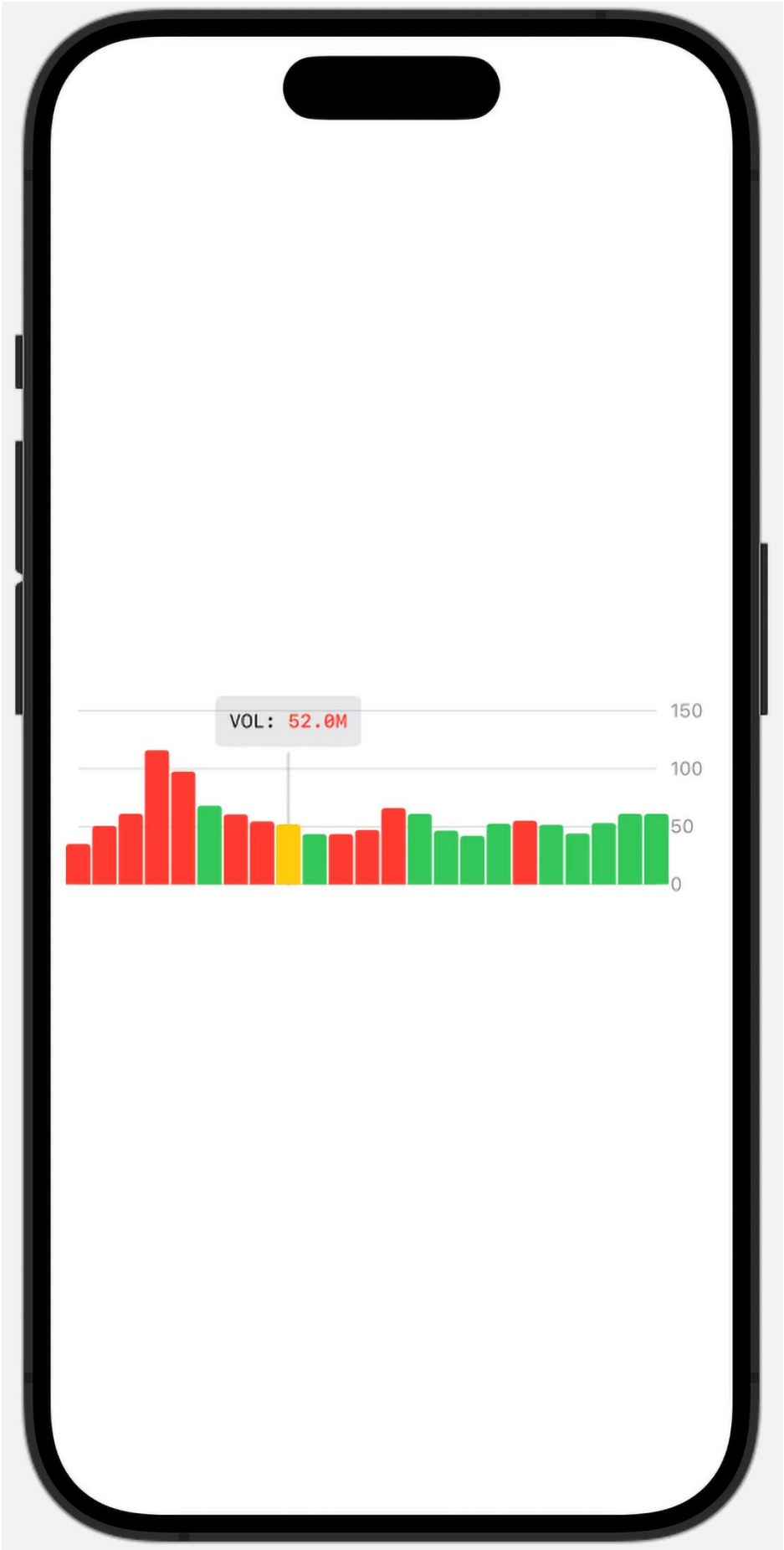

195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023

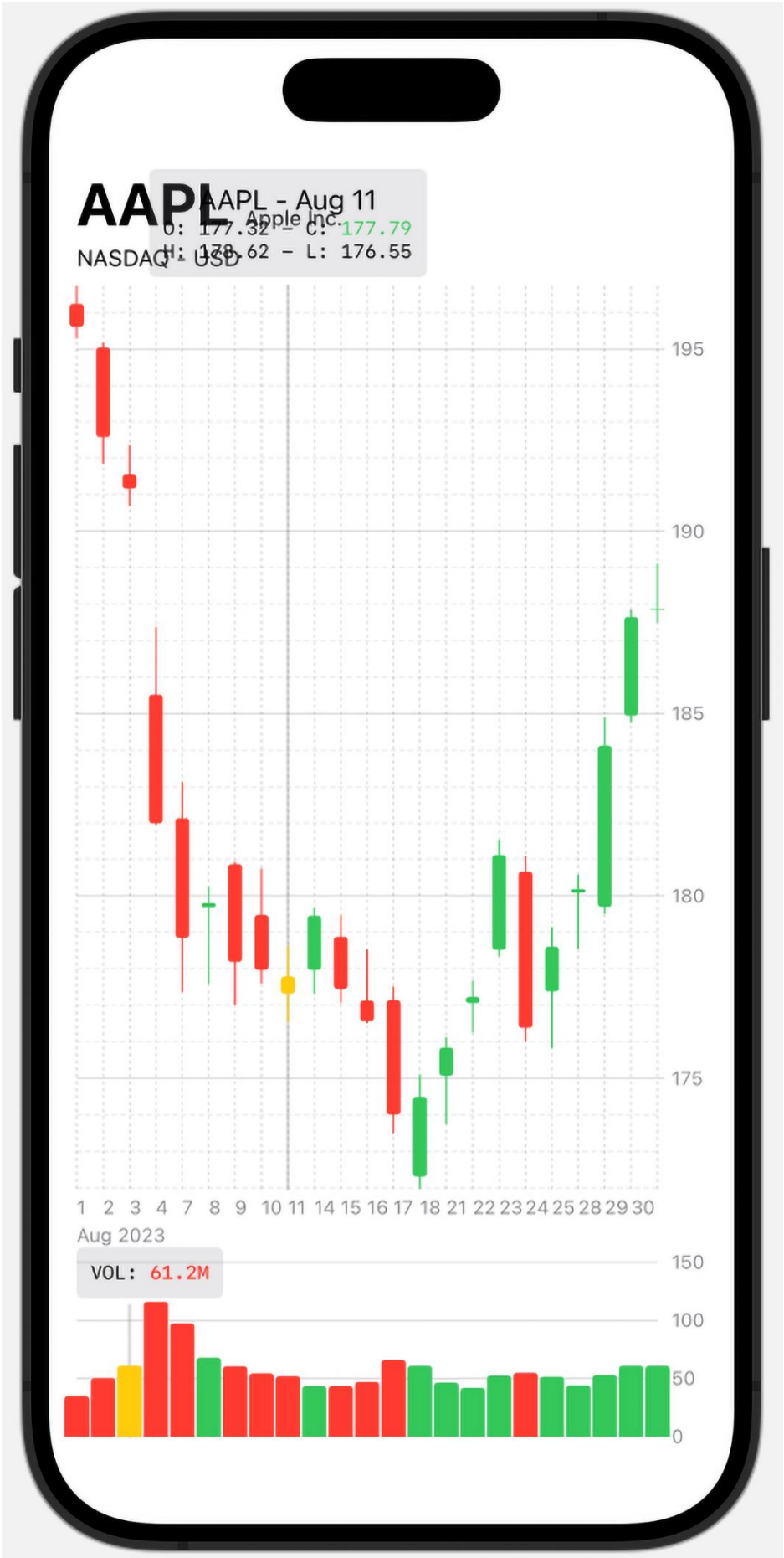

AAPL - Aug 1
O: 196.24 - C: 195.61
H: 196.73 - L: 195.28
AAPL - Aug 8
O: 179.69 - C: 179.80
H: 180.27 - L: 177.58

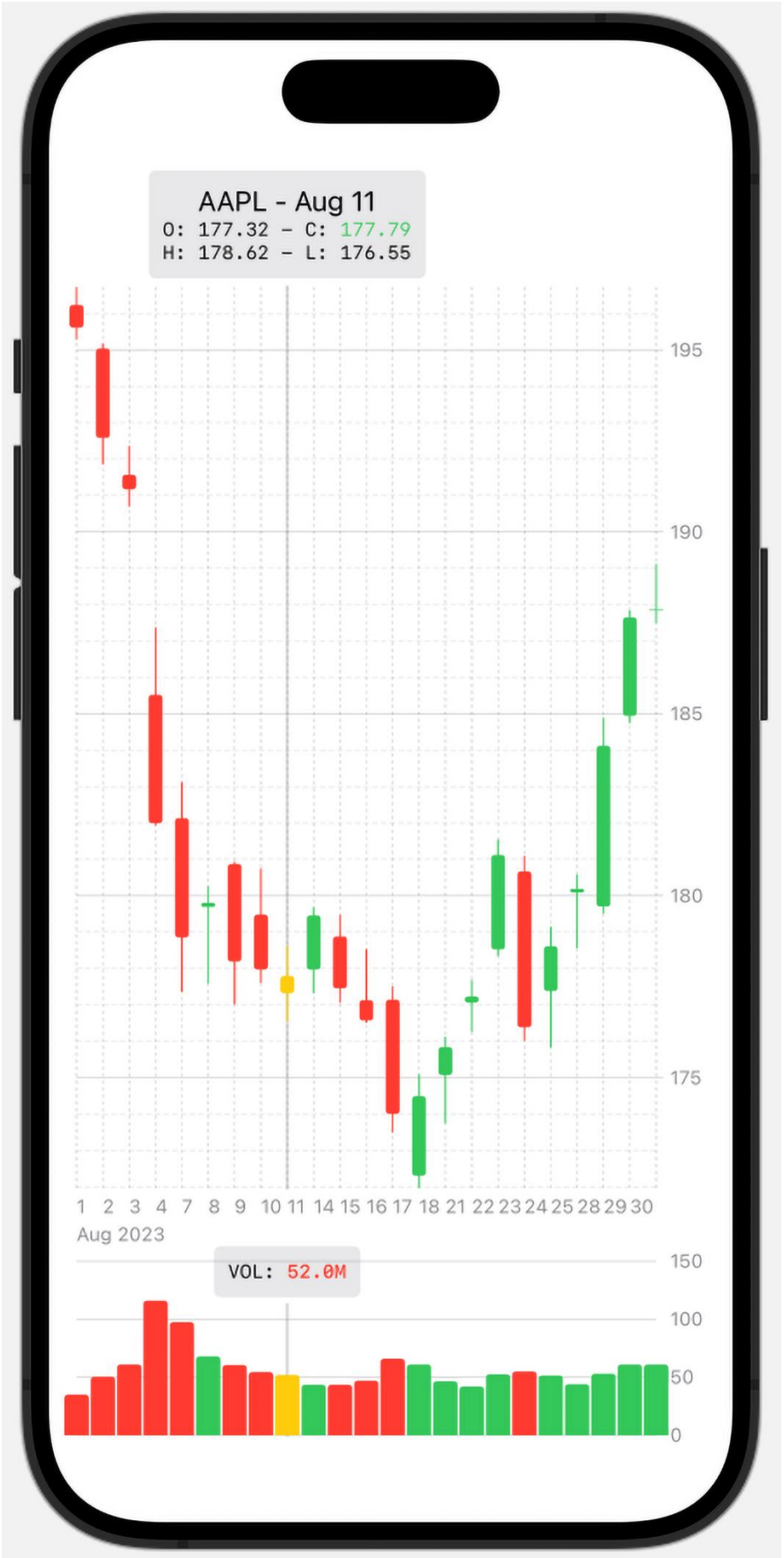

AAPL - Aug 9
O: 180.87 – C: 178.19
H: 180.93 – L: 177.01
195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023

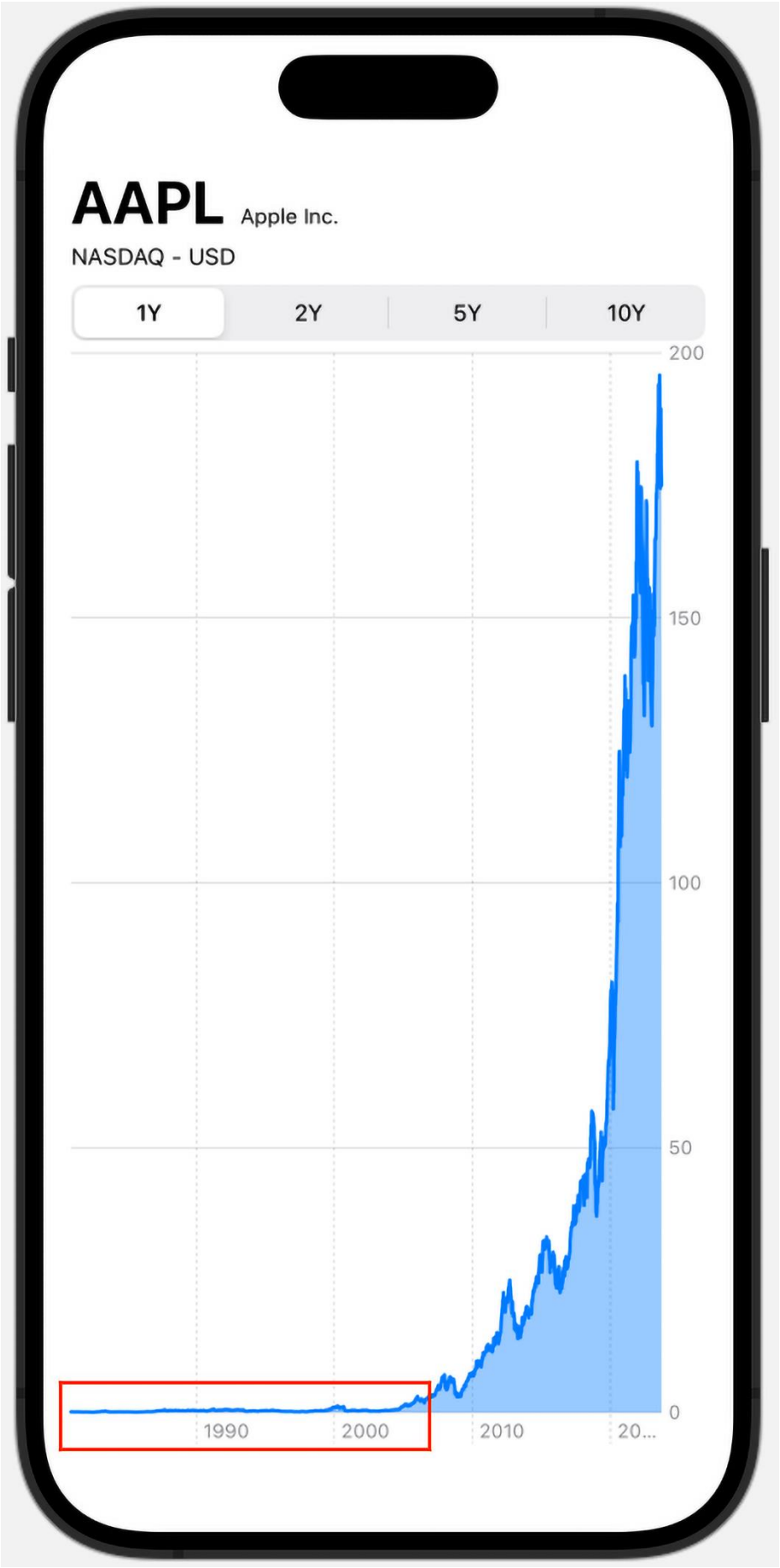

150
100
50
0

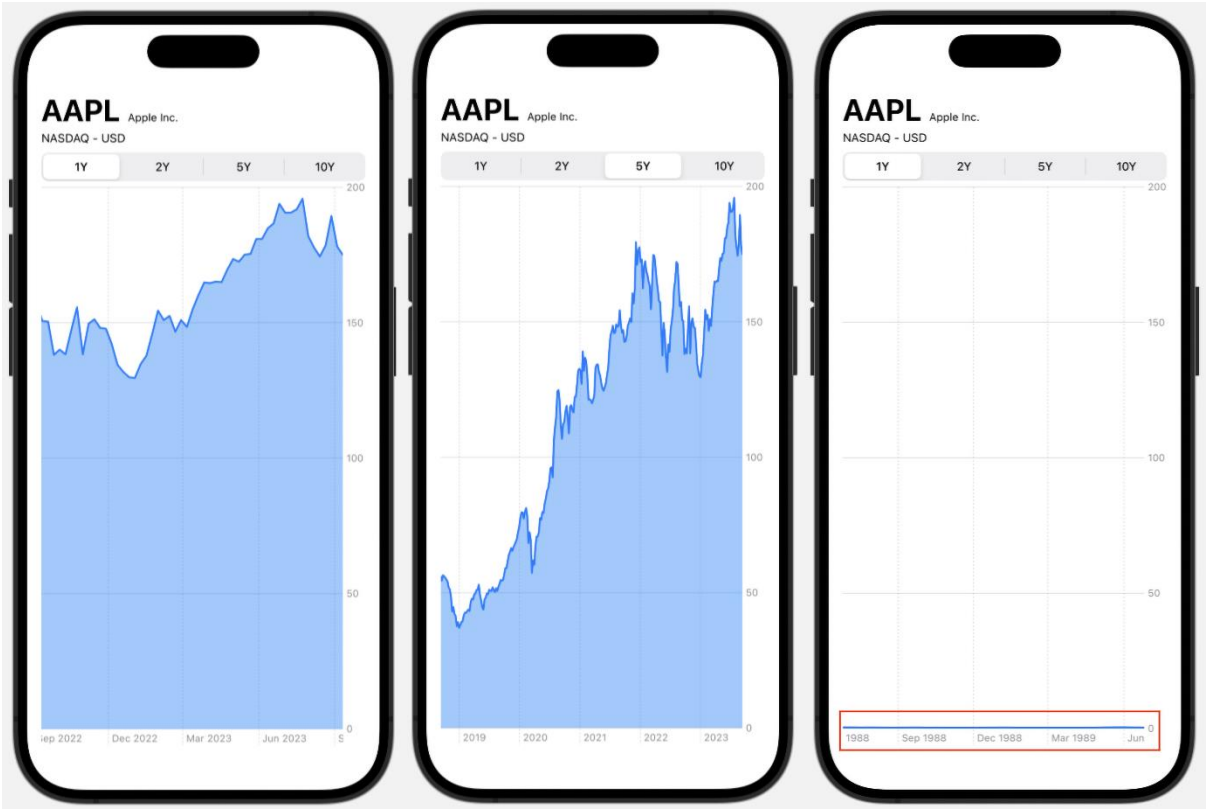

VOL: 67.8M
VOL: 52.0M

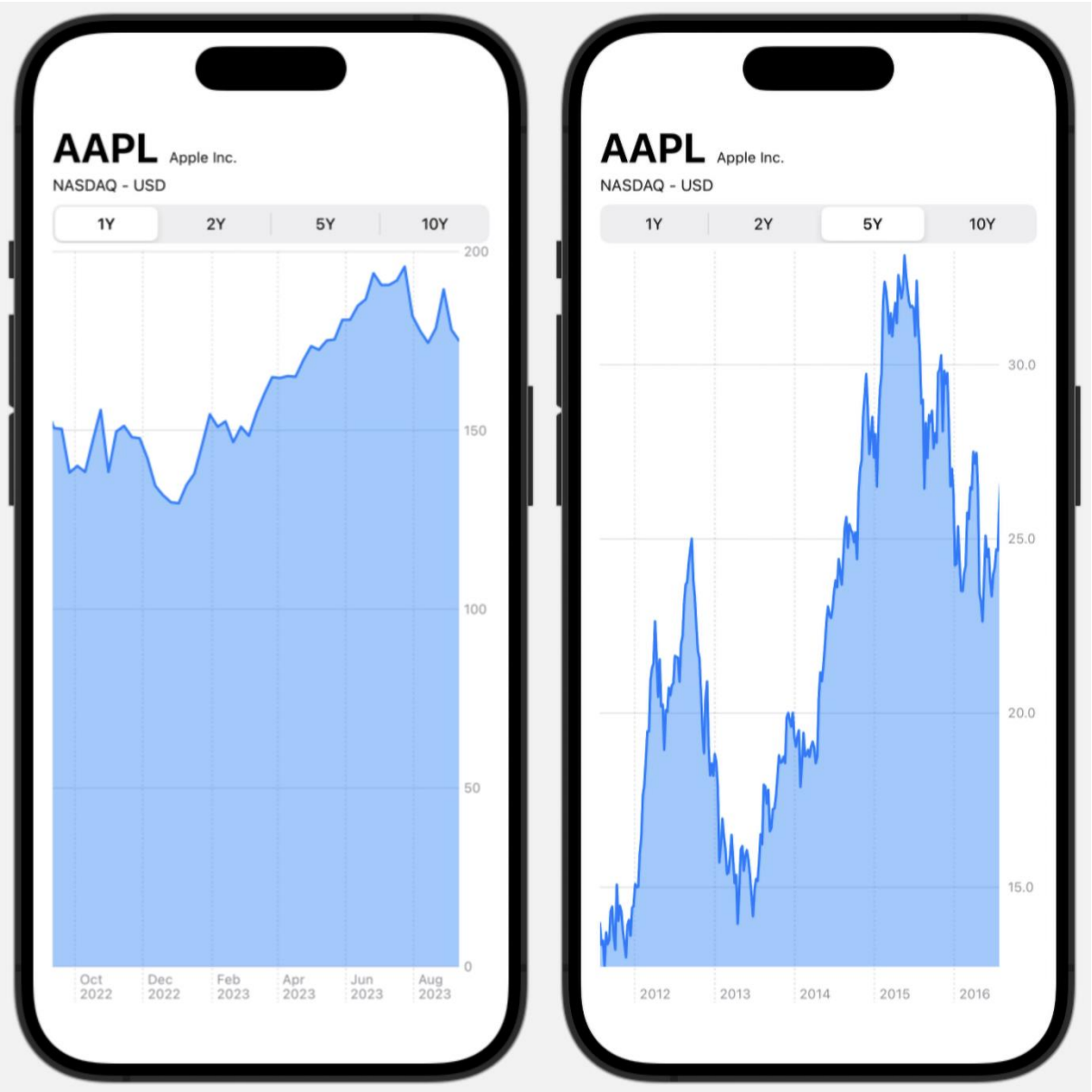

VOL: 52.0M
150
100
50
0

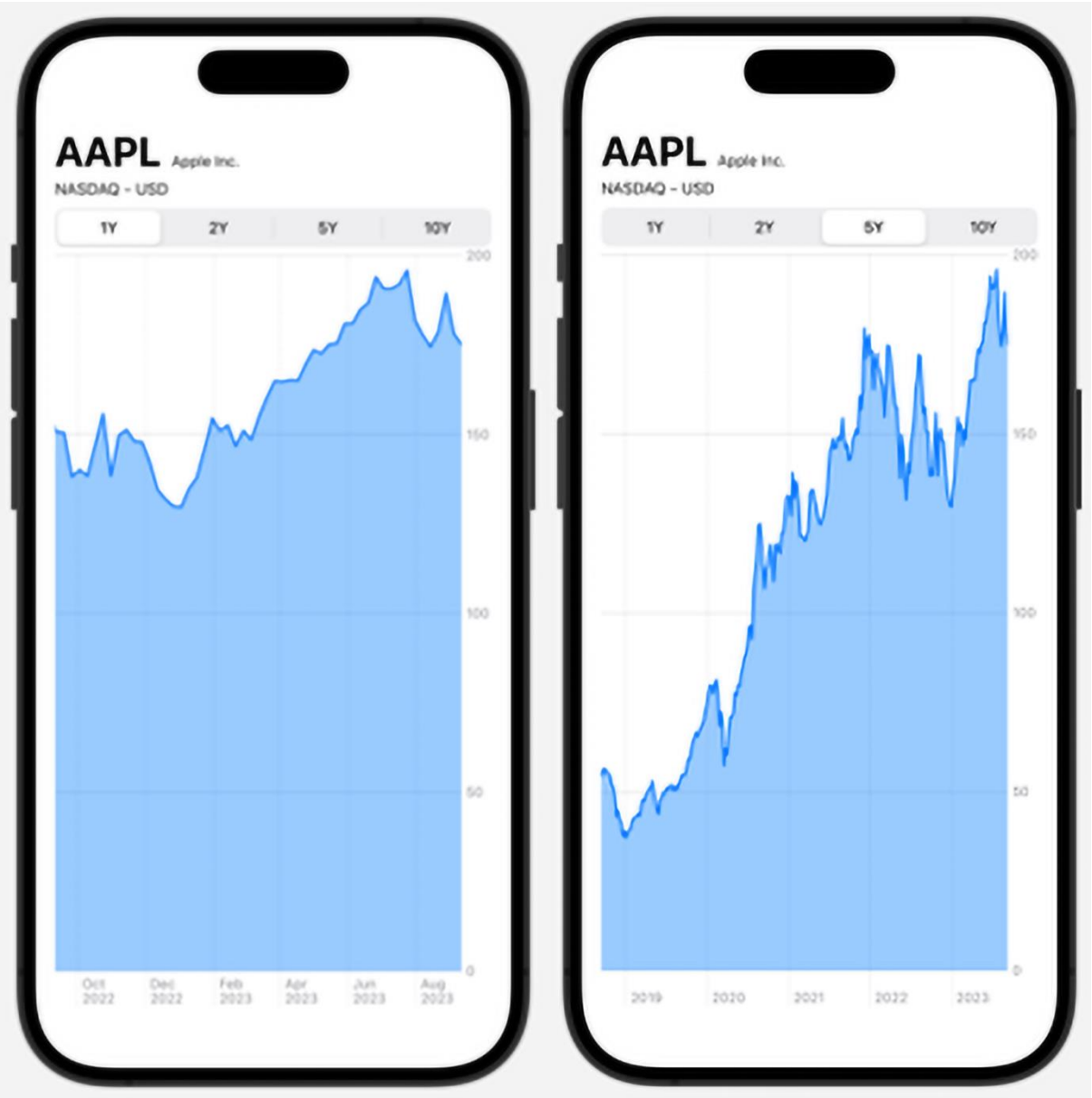

AAPL
NASDAQ · USD
AAPL - Aug 11
Apple Inc.
O: 177.32 – C: 177.79
H: 178.62 – L: 176.55
195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023
VOL: 61.2M
150
100
50
0


AAPL - Aug 11
O: 177.32 - C: 177.79
H: 178.62 - L: 176.55
195
190
185
180
175
1 2 3 4 7 8 9 10 11 14 15 16 17 18 21 22 23 24 25 28 29 30
Aug 2023
VOL: 52.0M
150
100
50
0


AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
1990
2000
2010
20...


AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
Dec 2022
Mar 2023
Jun 2023
2019
2020
2021
2022
2023
AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
1988
Sep 1988
Dec 1988
Mar 1989
Jun
AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0


AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
Oct 2022
Dec 2022
Feb 2023
Apr 2023
Jun 2023
Aug 2023
AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
30.0
25.0
20.0
15.0
2012
2013
2014
2015
2016


AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
Oct 2022
Dec 2022
Feb 2023
Apr 2023
Jun 2023
Aug 2023
AAPL
Apple Inc.
NASDAQ - USD
1Y
2Y
5Y
10Y
200
150
100
50
0
2019
2020
2021
2022
2023

Chapter 16: Creating Multiplatform Apps with SwiftUI



grass



Habitat

pond

Description

long description here

Insects



Honey bee
Tropical climates



Green Fly
warm and
moist climates



Green bug
orchards and gardens



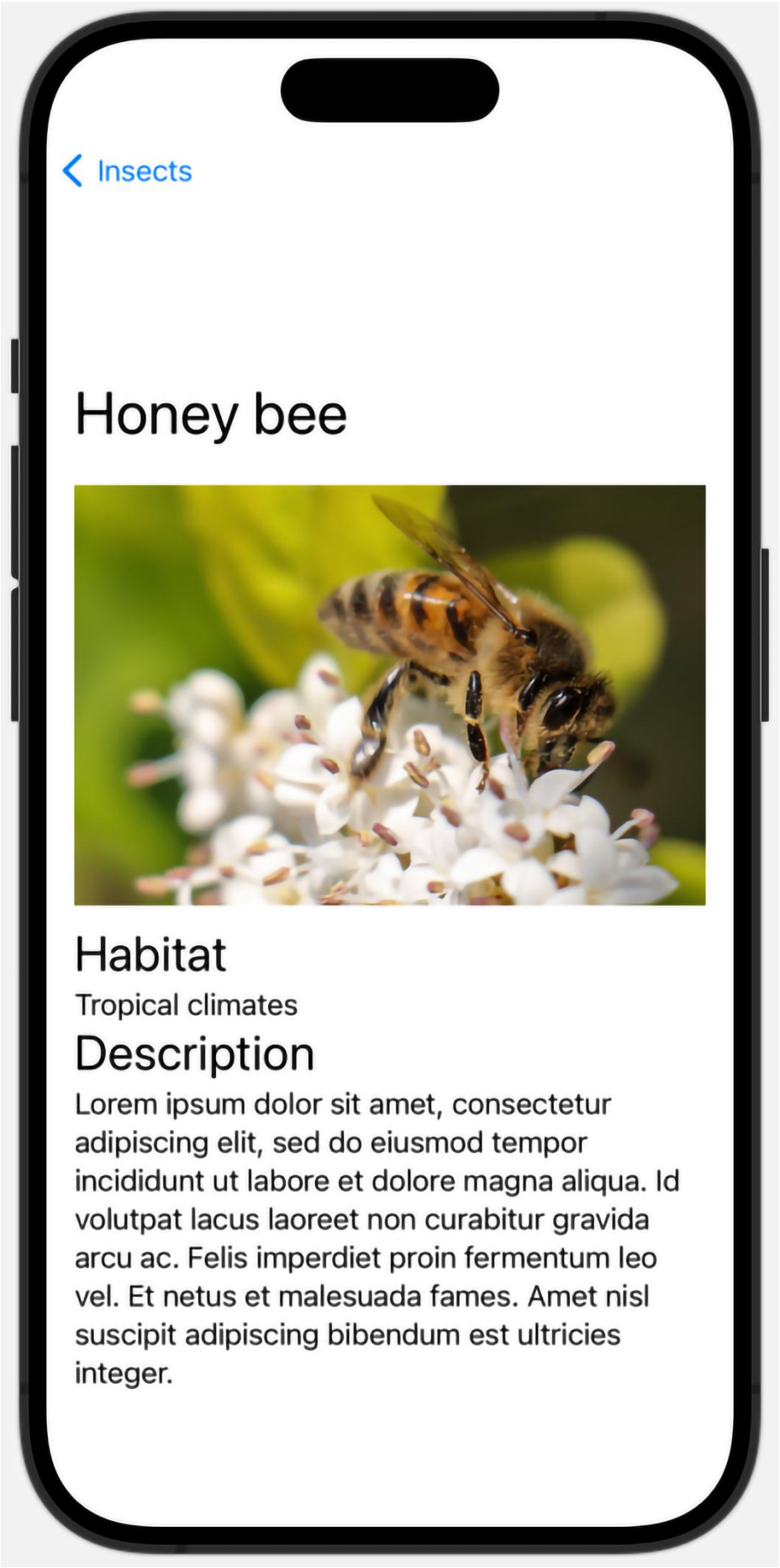
Black Beetle
Tropical climates

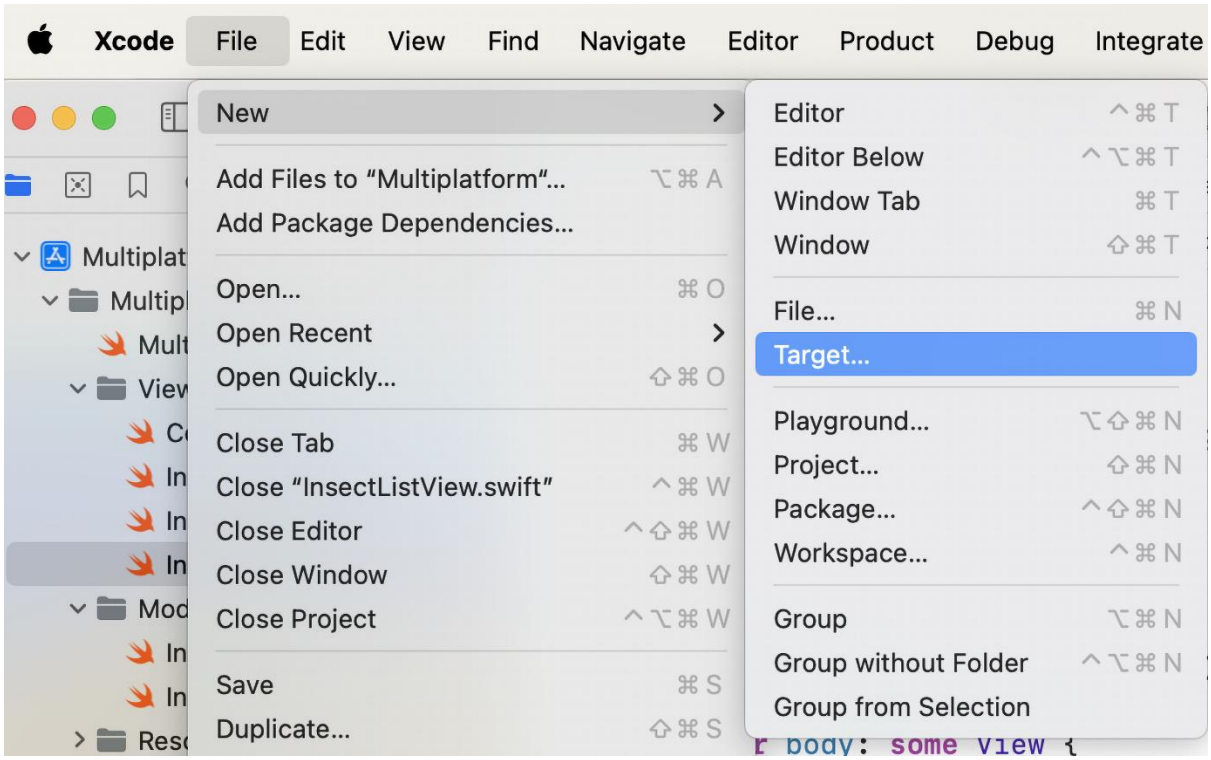


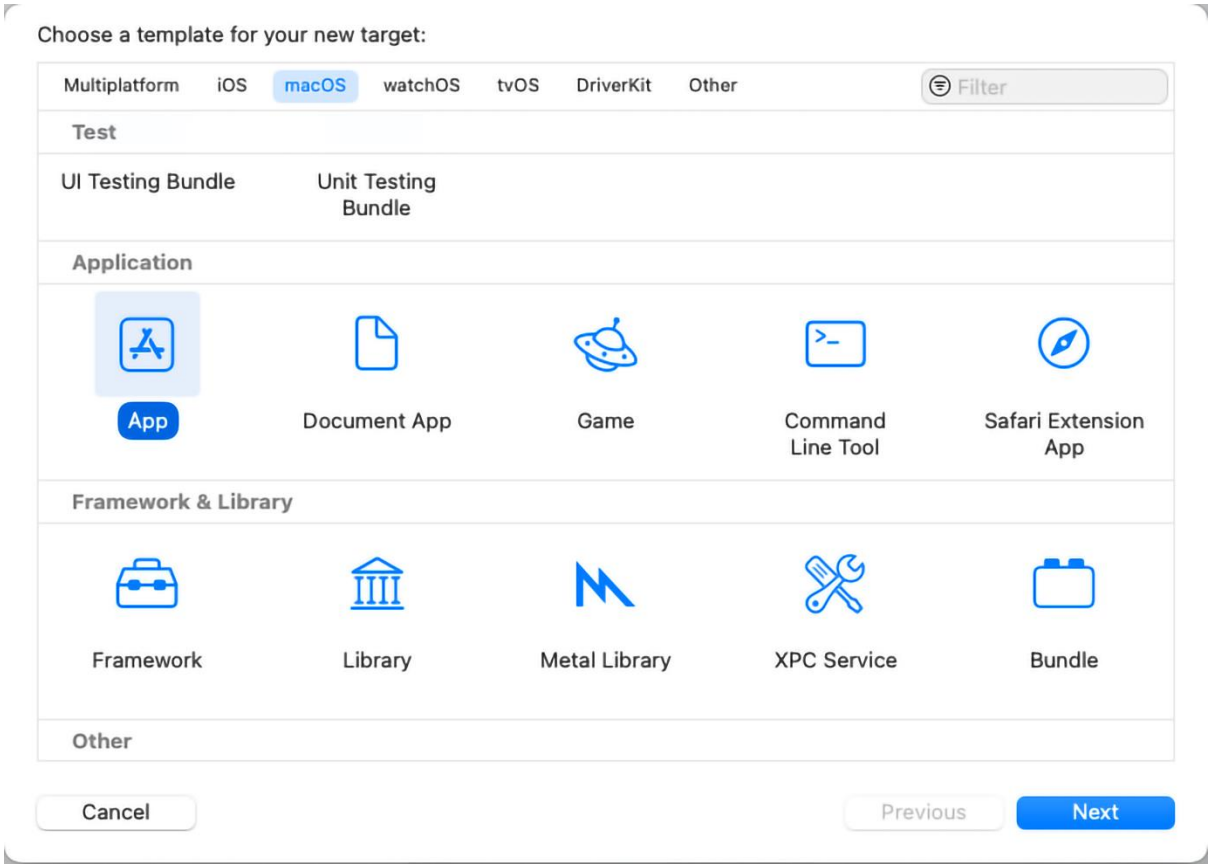
Brown Spider
warm and
moist climates

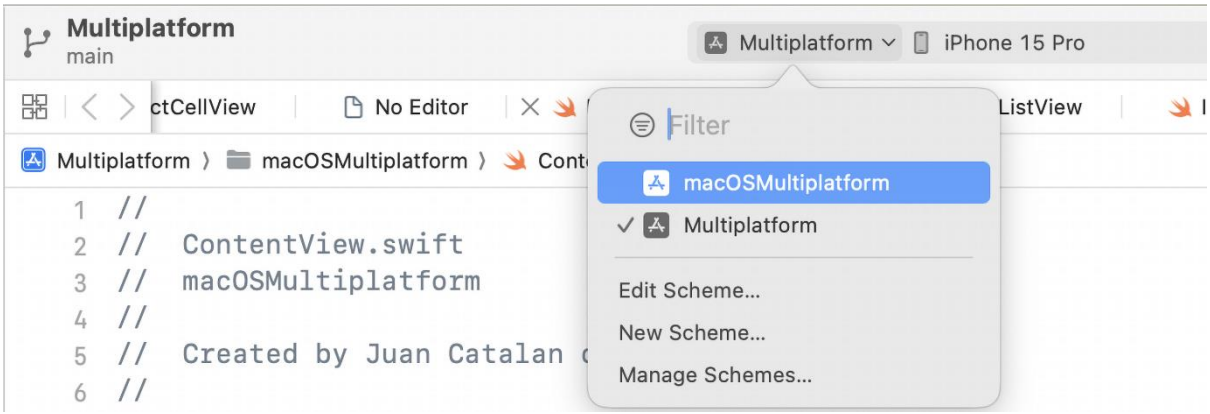


Blue Dragonfly
around lakes
and streams

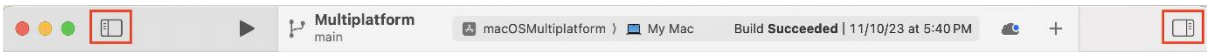

Insects
Honey bee
Habitat
Tropical climates
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel. Et netus et malesuada fames. Amet nisl suscipit adipiscing bibendum est ultricies integer.

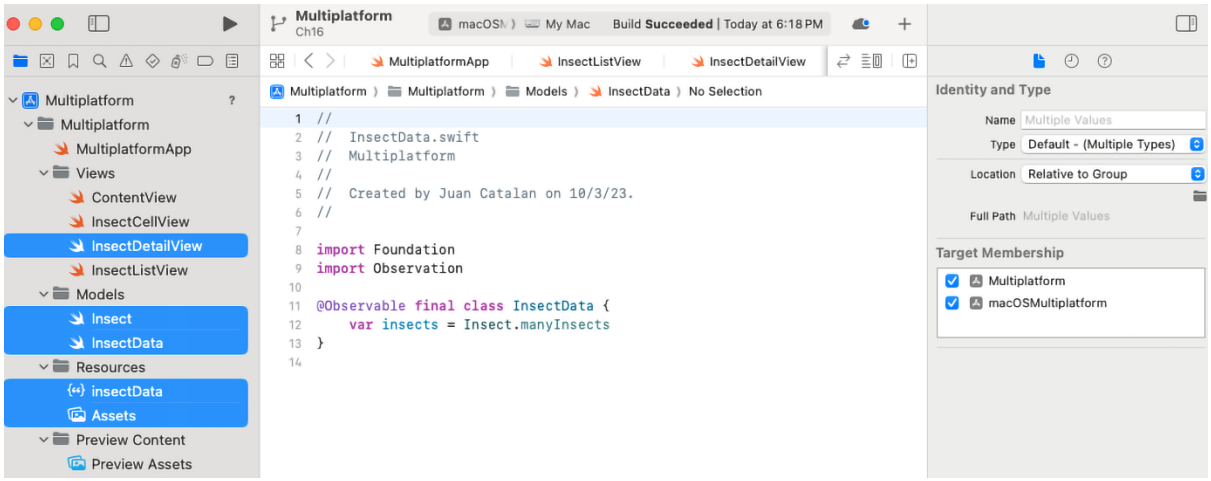

Xcode
File
Edit
View
Find
Navigate
Editor
Product
Debug
Integrate
New
Add Files to "Multiplatform"...
Add Package Dependencies...
Open...
Open Recent
Open Quickly...
Close Tab
Close "InsectListView.swift"
Close Editor
Close Window
Close Project
Save
Duplicate...
Editor
Editor Below
Window Tab
Window
File...
Target...
Playground...
Project...
Package...
Workspace...
Group
Group without Folder
Group from Selection

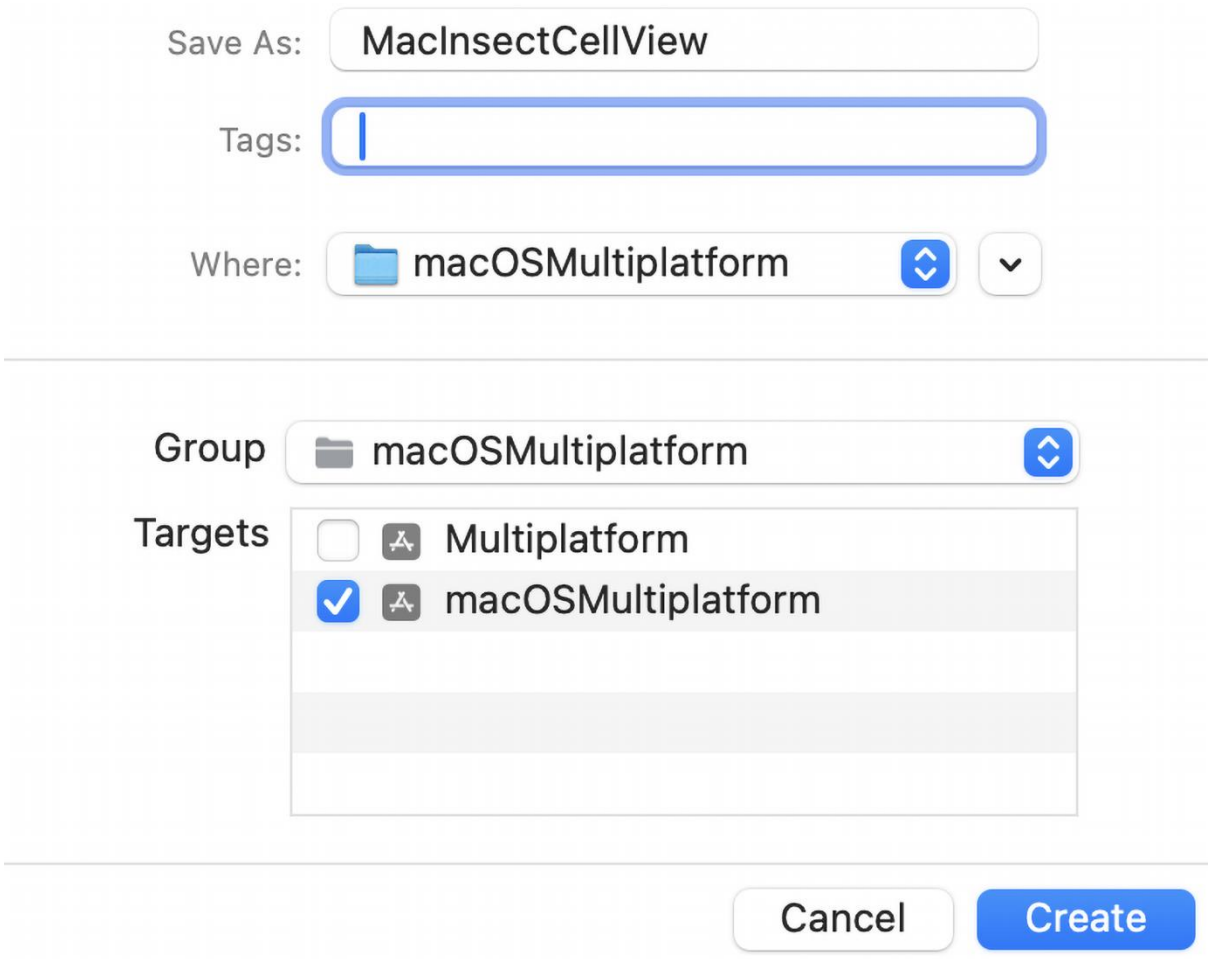

Choose a template for your new target:
Multiplatform
iOS
macOS
watchOS
tvOS
DriverKit
Other
Filter
Test
UI Testing Bundle
Unit Testing Bundle
Application
App
Document App
Game
Command Line Tool
Safari Extension App
Framework & Library
Framework
Library
Metal Library
XPC Service
Bundle
Other
Cancel
Previous
Next

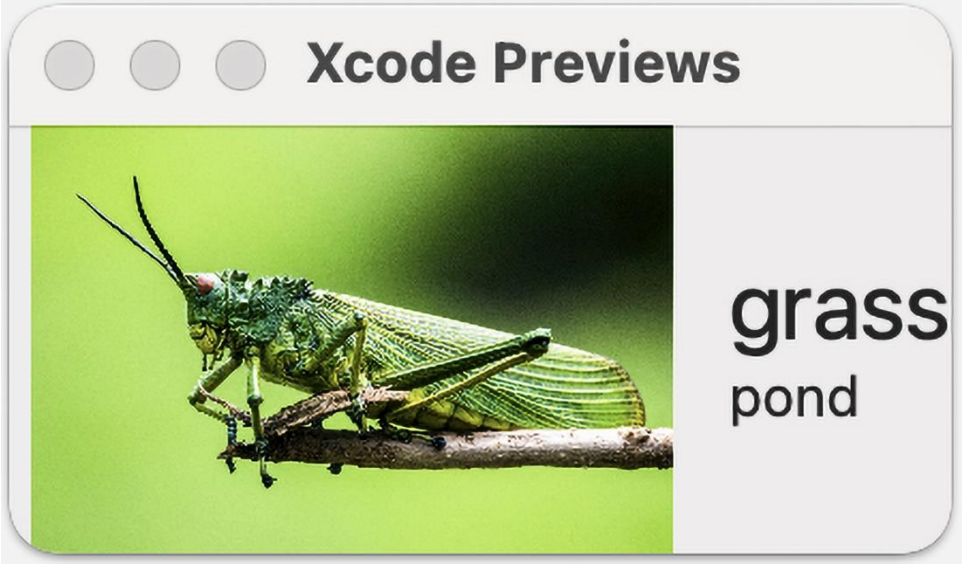

Multiplatform
main
Multiplatform
iPhone 15 Pro
No Editor
ListView
Multiplatform
macOSMultiplatform
Filter
macOSMultiplatform
Multiplatform
Edit Scheme...
New Scheme...
Manage Schemes...
1 //
2 // ContentView.swift
3 // macOSMultiplatform
4 //
5 // Created by Juan Catalan
6 //

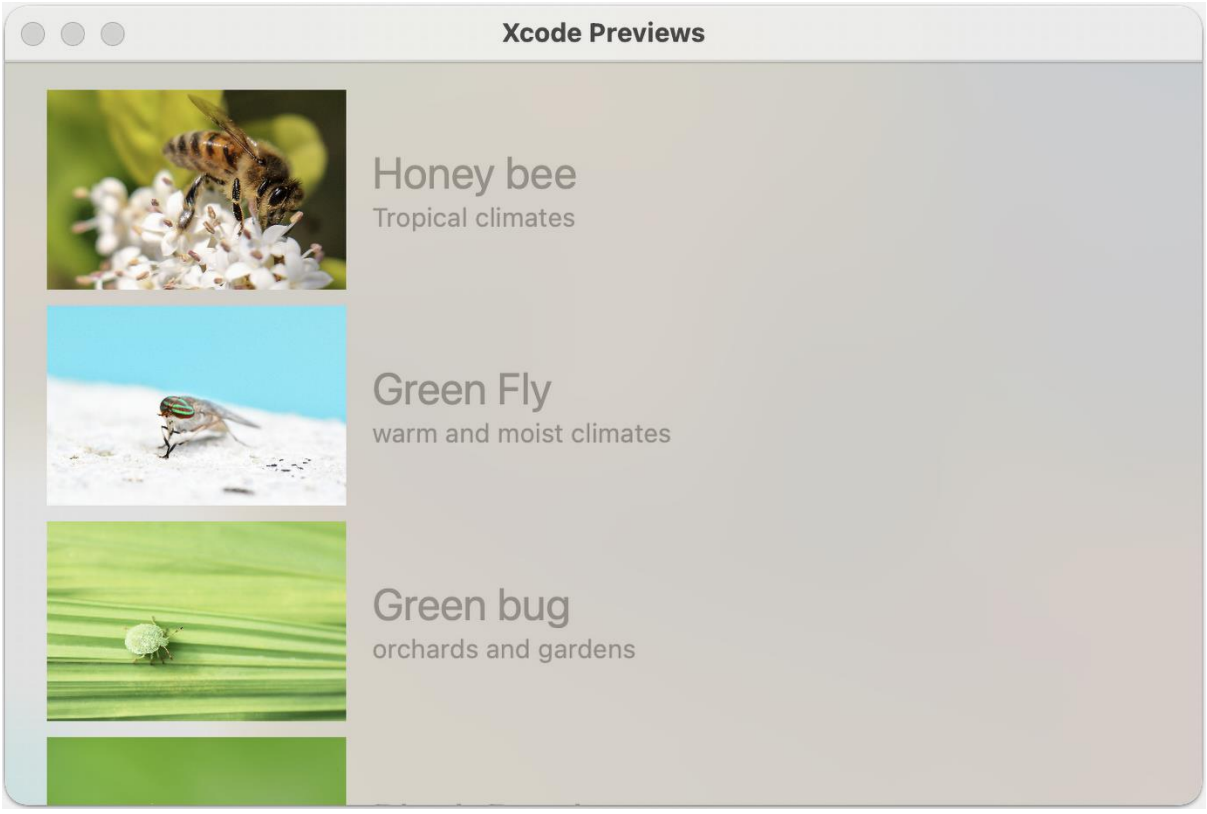

Xc...
Hello, world!

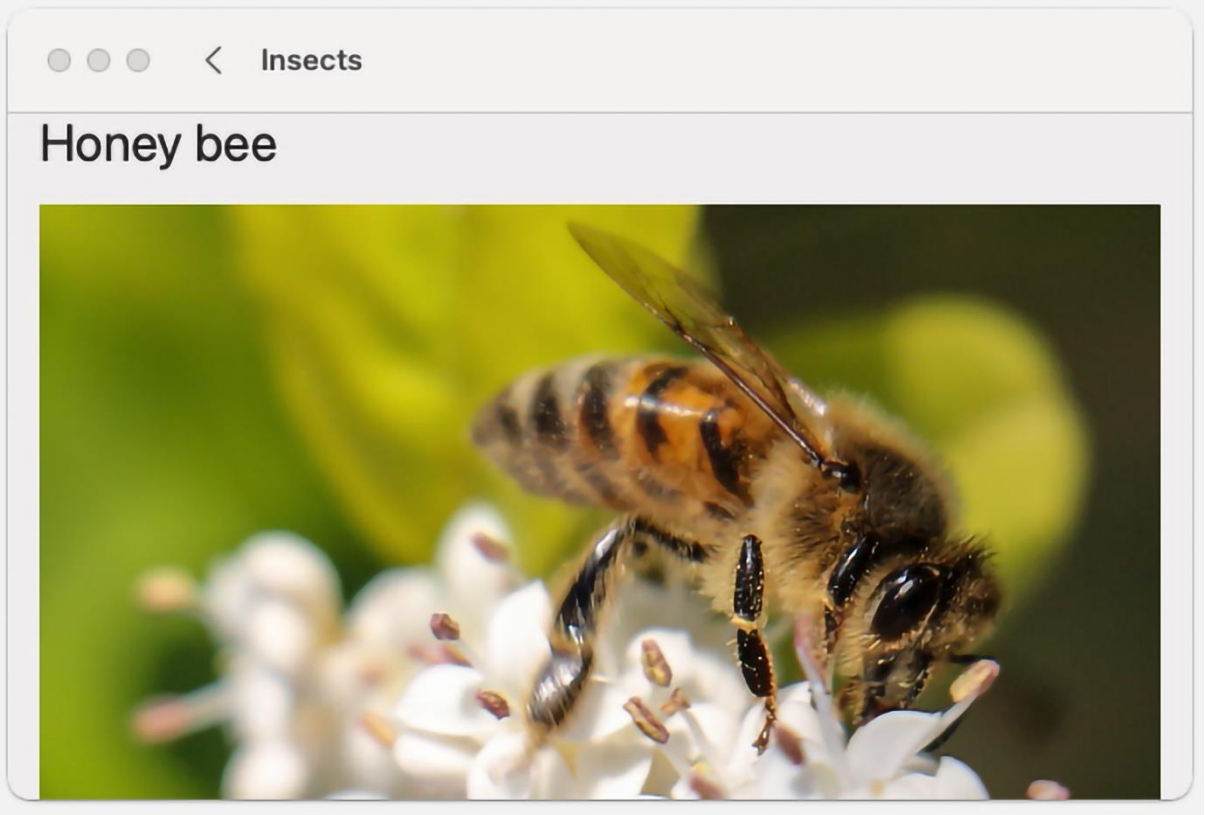

Multiplatform
main
macOSMultiplatform
My Mac
Build Succeeded | 11/10/23 at 5:40 PM

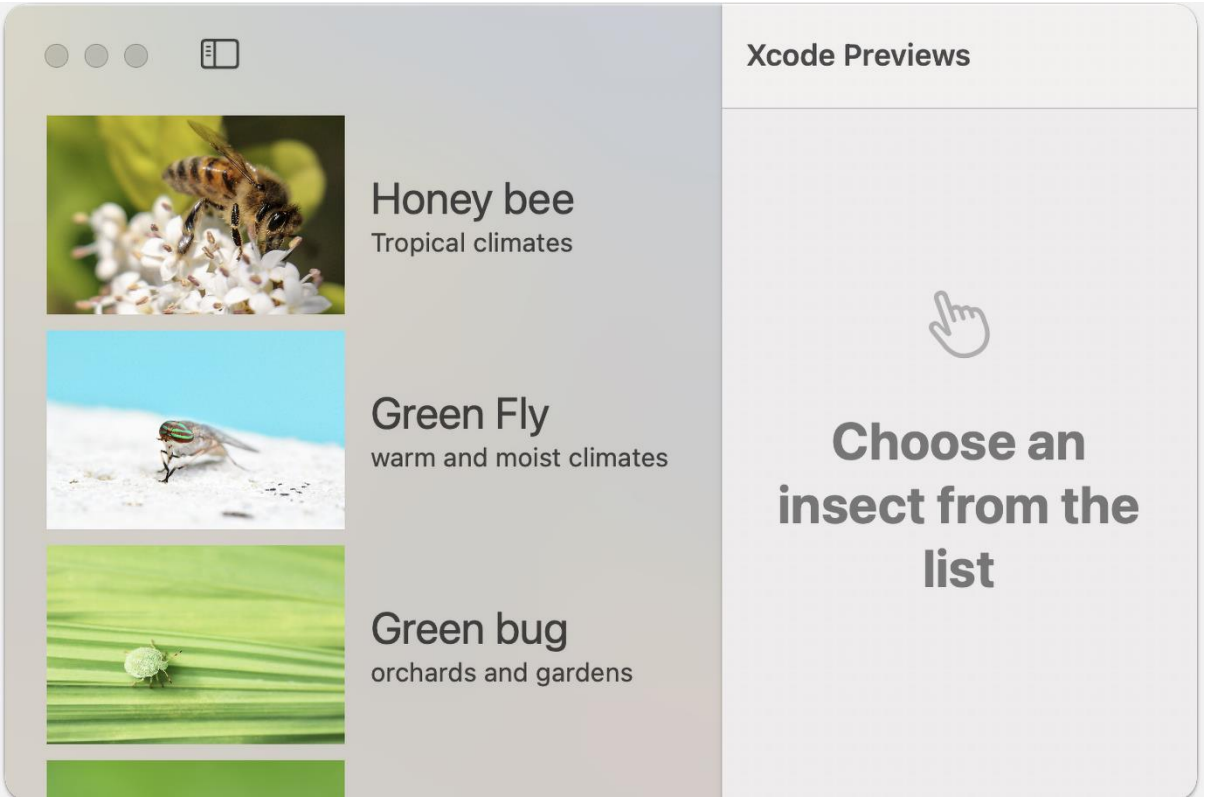

Multiplatform
Ch16
macOS
My Mac
Build Succeeded | Today at 6:18 PM
MultiplatformApp
InsectListView
InsectDetailView
Multiplatform
Multiplatform
Models
InsectData
No Selection
Multiplatform
Multiplatform
MultiplatformApp
Views
ContentView
InsectCellView
InsectDetailView
InsectListView
Models
Insect
InsectData
Resources
insectData
Assets
Preview Content
Preview Assets
1 //
2 // InsectData.swift
3 // Multiplatform
4 //
5 // Created by Juan Catalan on 10/3/23.
6 //
7
8 import Foundation
9 import Observation
10
11 @Observable final class InsectData {
12 var insects = Insect.manyInsects
13 }
14
Identity and Type
Name Multiple Values
Type Default - (Multiple Types)
Location Relative to Group
Full Path Multiple Values
Target Membership
Multiplatform
macOSMultiplatform

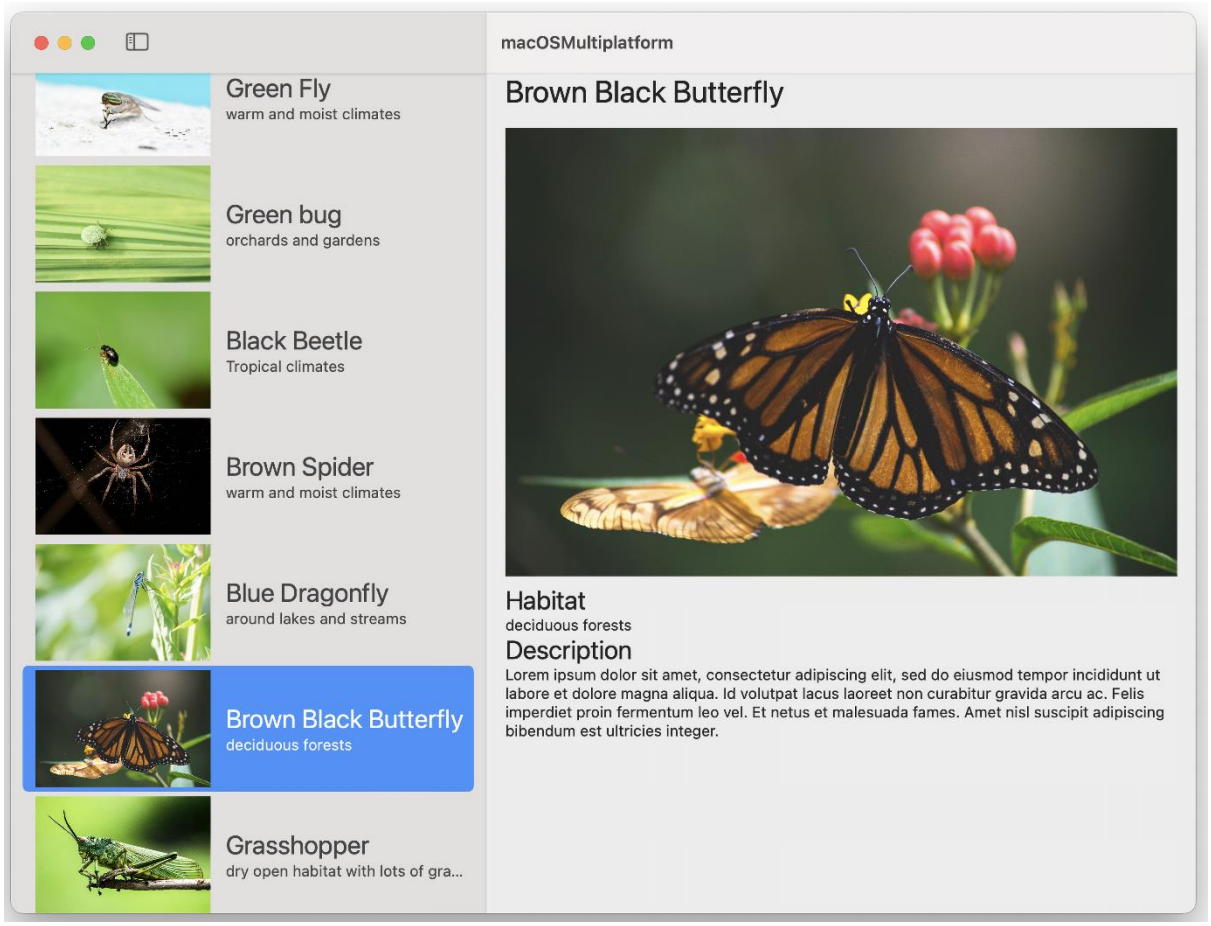

Save As: MacInsectCellView
Tags:
Where: macOSMultiplatform
Group macOSMultiplatform
Targets
Multiplatform
macOSMultiplatform
Cancel
Create

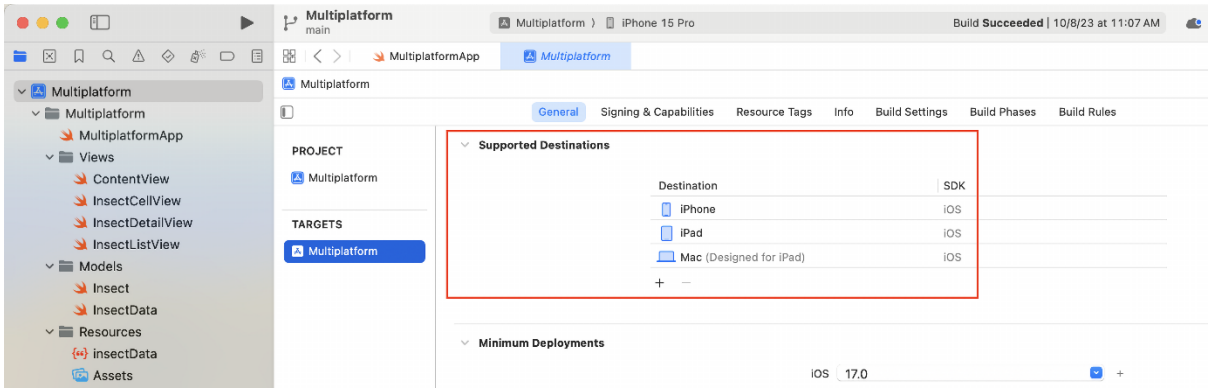

Xcode Previews
grass
pond

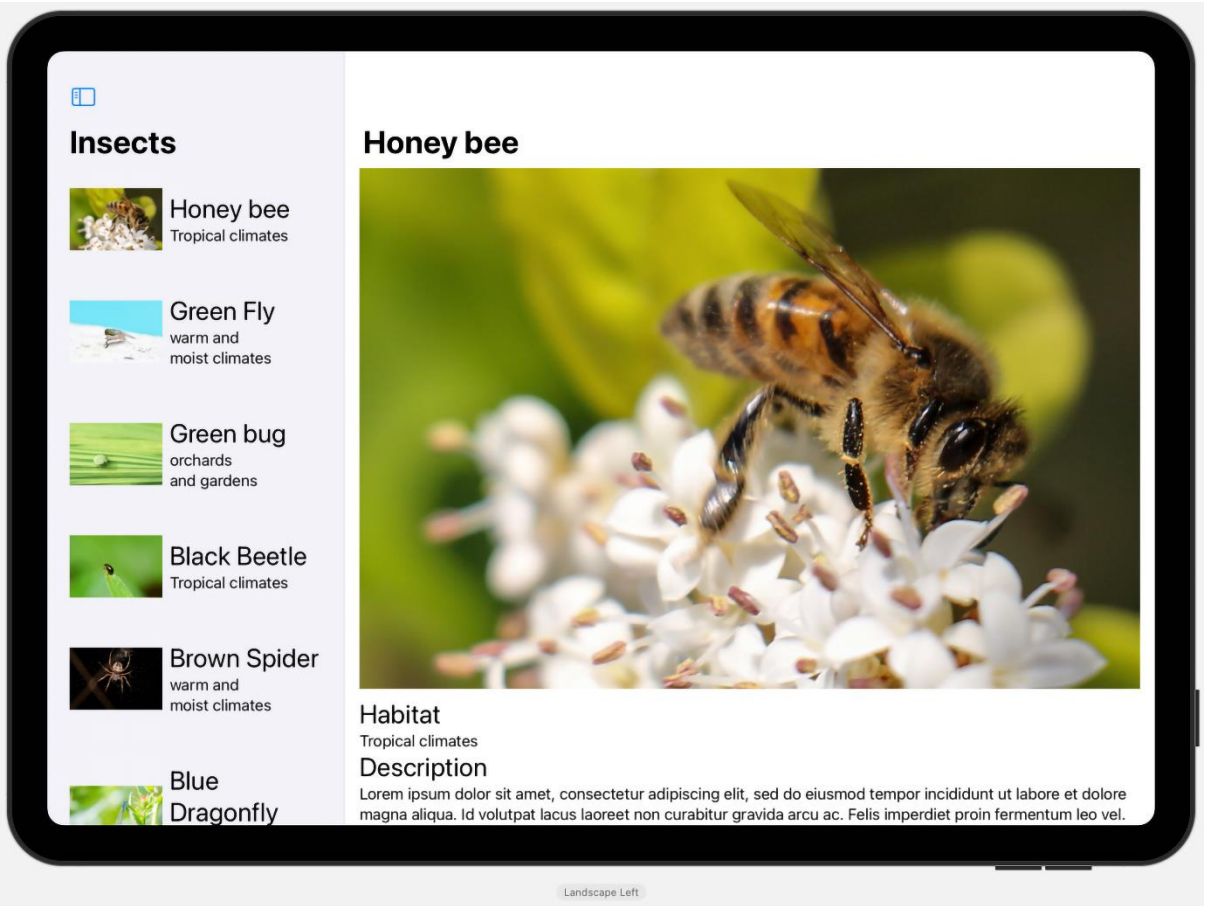

Xcode Previews
Honey bee
Tropical climates
Green Fly
warm and moist climates
Green bug
orchards and gardens

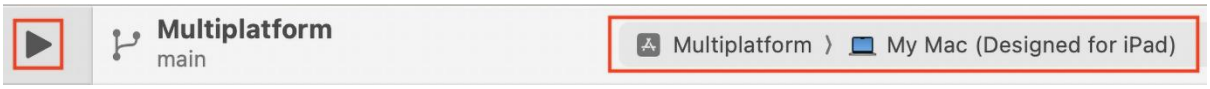

Insects
Honey bee

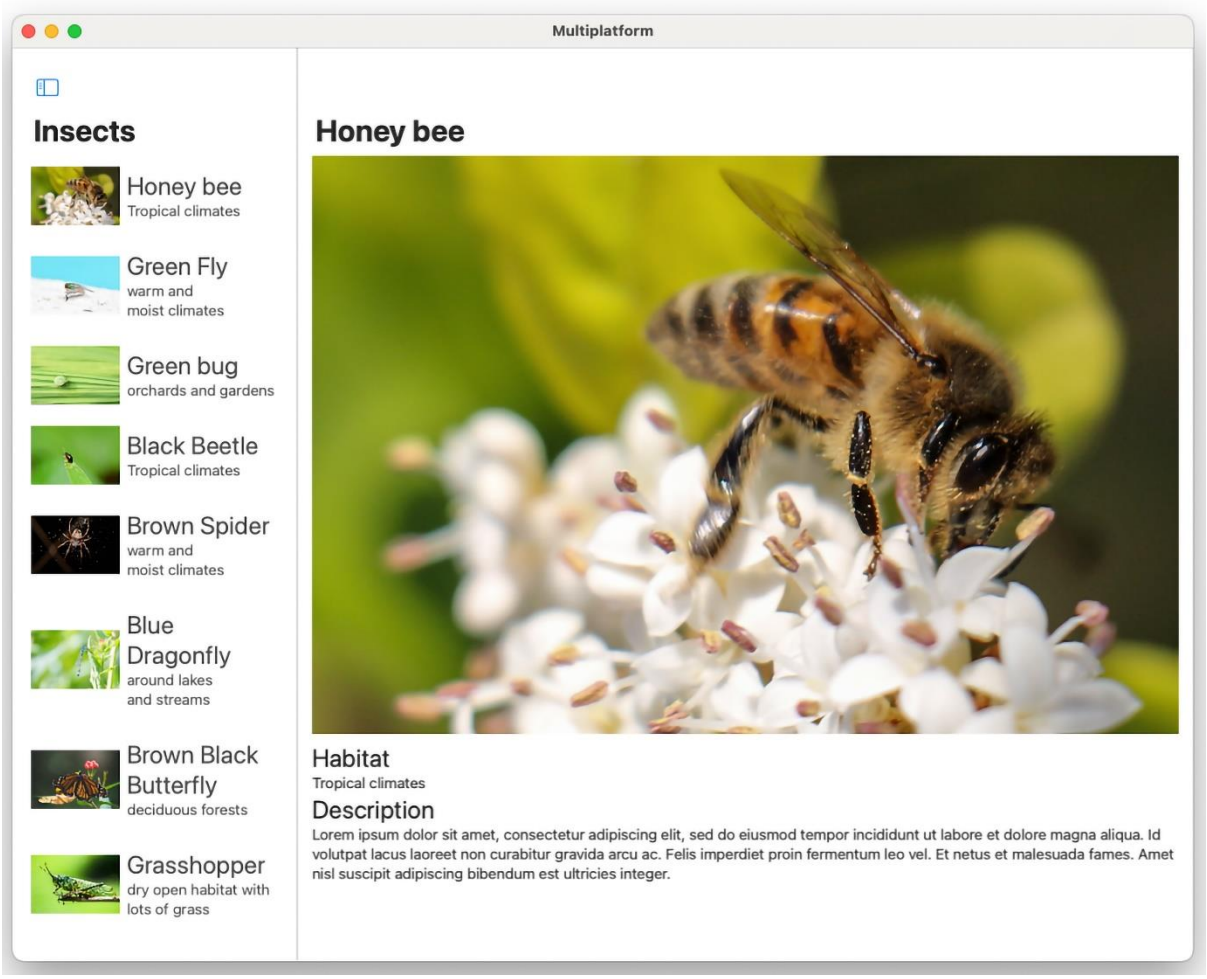

Honey bee
Tropical climates
Green Fly
warm and moist climates
Green bug
orchards and gardens
Xcode Previews
Choose an insect from the list

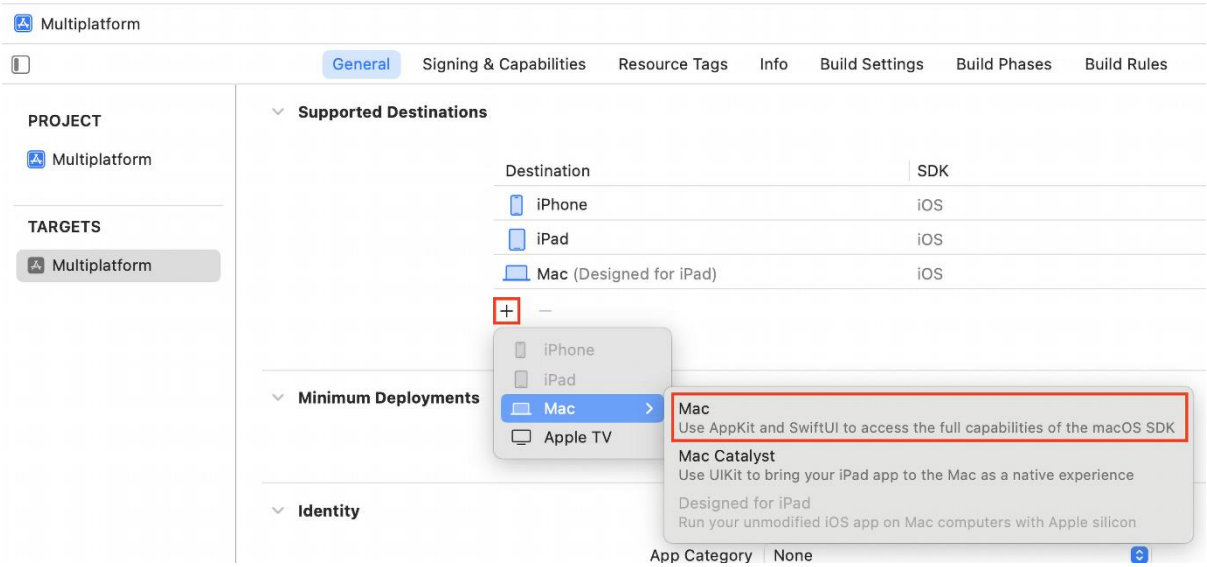

macOSMultiplatform
Green Fly
warm and moist climates
Green bug
orchards and gardens
Black Beetle
Tropical climates
Brown Spider
warm and moist climates
Blue Dragonfly
around lakes and streams
Brown Black Butterfly
deciduous forests
Grasshopper
dry open habitat with lots of gra...
Brown Black Butterfly
Habitat
deciduous forests
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel. Et netus et malesuada fames. Amet nisl suscipit adipiscing bibendum est ultricies integer.

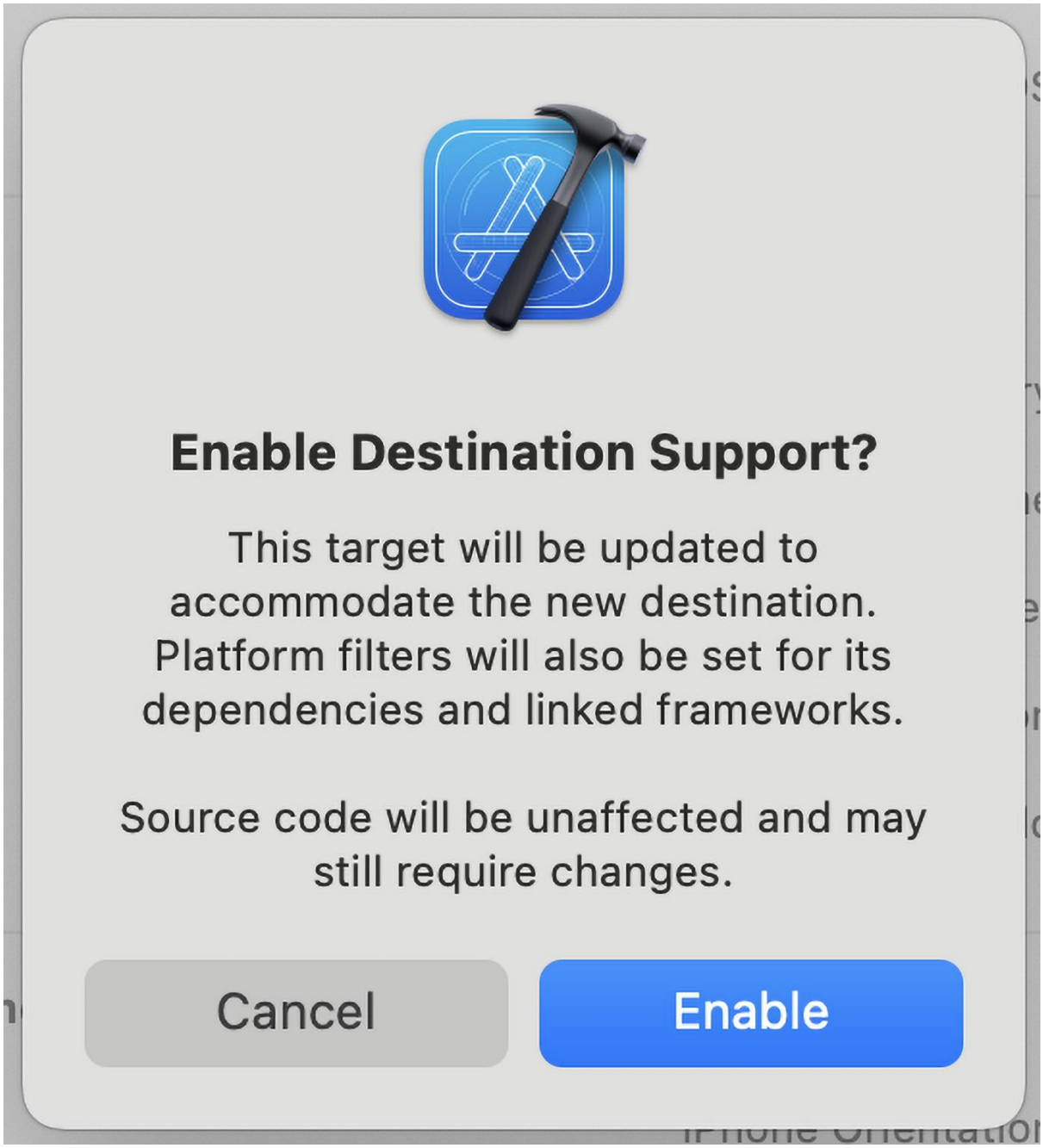

Multiplatform
main
Multiplatform 〉 iPhone 15 Pro
Build Succeeded | 10/8/23 at 11:07 AM
MultiplatformApp
Multiplatform
Multiplatform
Multiplatform
MultiplatformApp
Views
ContentView
InsectCellView
InsectDetailView
InsectListView
Models
Insect
InsectData
Resources
insectData
Assets
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
Multiplatform
TARGETS
Multiplatform
Supported Destinations
Destination
SDK
iPhone
iOS
iPad
iOS
Mac (Designed for iPad)
iOS
Minimum Deployments
iOS
17.0

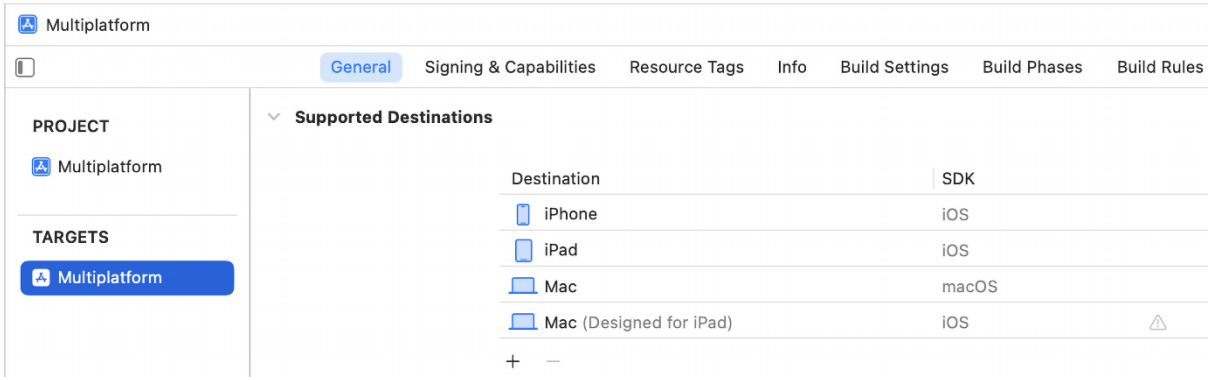

Insects
Honey bee
Tropical climates
Green Fly
warm and
moist climates
Green bug
orchards
and gardens
Black Beetle
Tropical climates
Brown Spider
warm and
moist climates
Blue
Dragonfly
Honey bee
Habitat
Tropical climates
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel.
Landscape Left

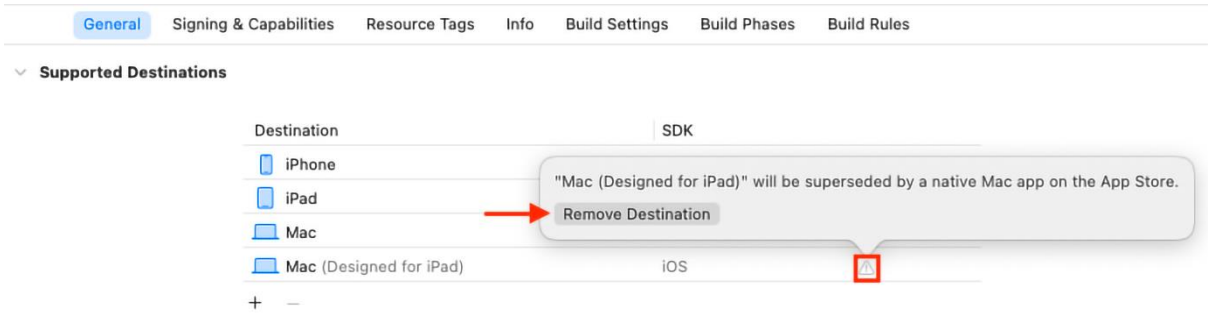

Multiplatform
main
Multiplatform 〉 My Mac (Designed for iPad)

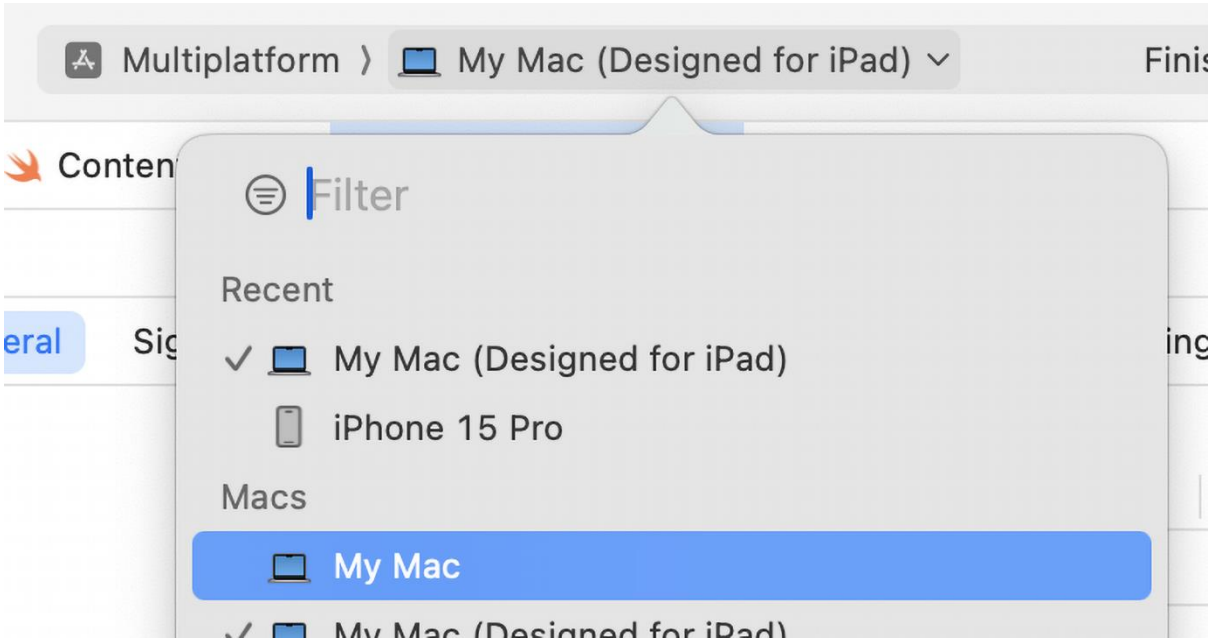

Multiplatform
Insects
Honey bee
Tropical climates
Green Fly
warm and
moist climates
Green bug
orchards and gardens
Black Beetle
Tropical climates
Brown Spider
warm and
moist climates
Blue
Dragonfly
around lakes
and streams
Brown Black
Butterfly
deciduous forests
Grasshopper
dry open habitat with
lots of grass
Honey bee
Habitat
Tropical climates
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel. Et netus et malesuada fames. Amet nisl suscipit adipiscing bibendum est ultricies integer.

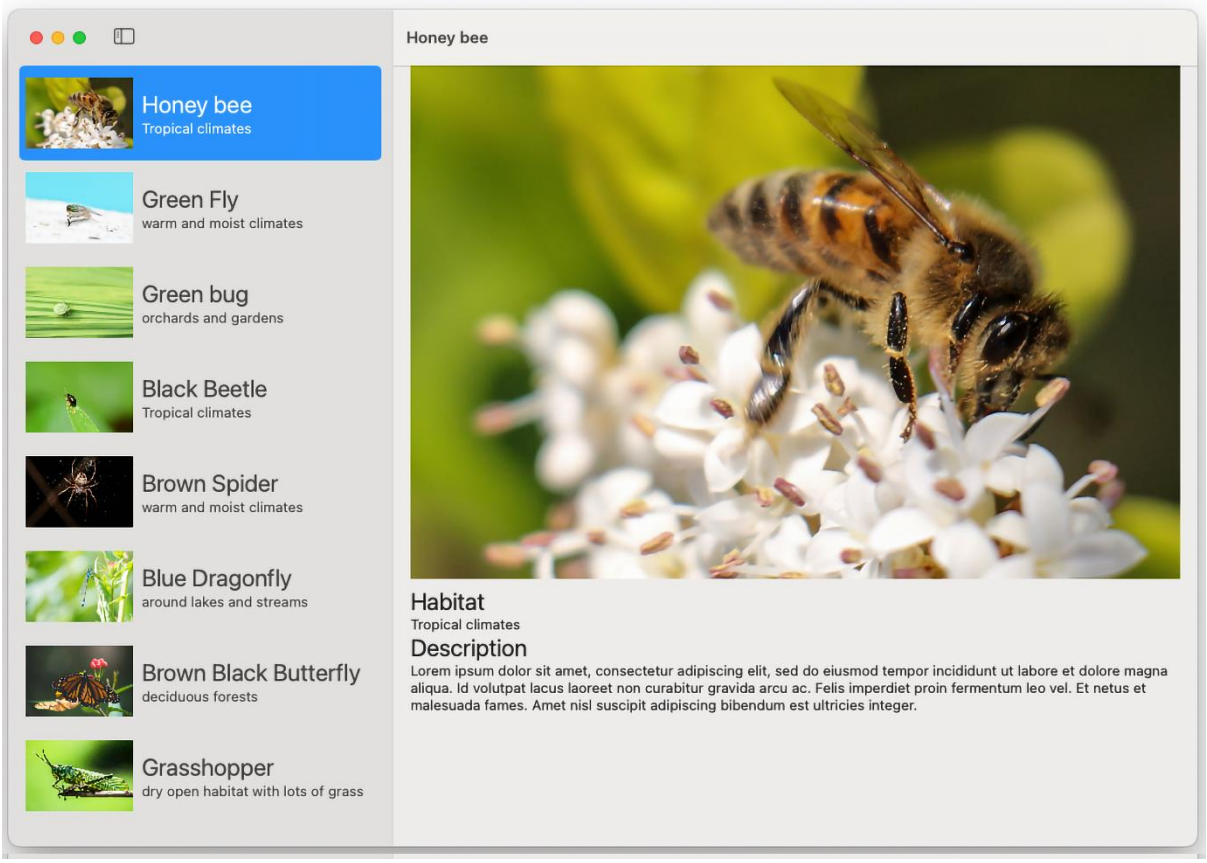

Multiplatform
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
Multiplatform
TARGETS
Multiplatform
Supported Destinations
Destination
SDK
iPhone
iOS
iPad
iOS
Mac (Designed for iPad)
iOS
iPhone
iPad
Mac
Apple TV
Minimum Deployments
Mac
Use AppKit and SwiftUI to access the full capabilities of the macOS SDK
Mac Catalyst
Use UIKit to bring your iPad app to the Mac as a native experience
Designed for iPad
Run your unmodified iOS app on Mac computers with Apple silicon
Identity
App Category
None

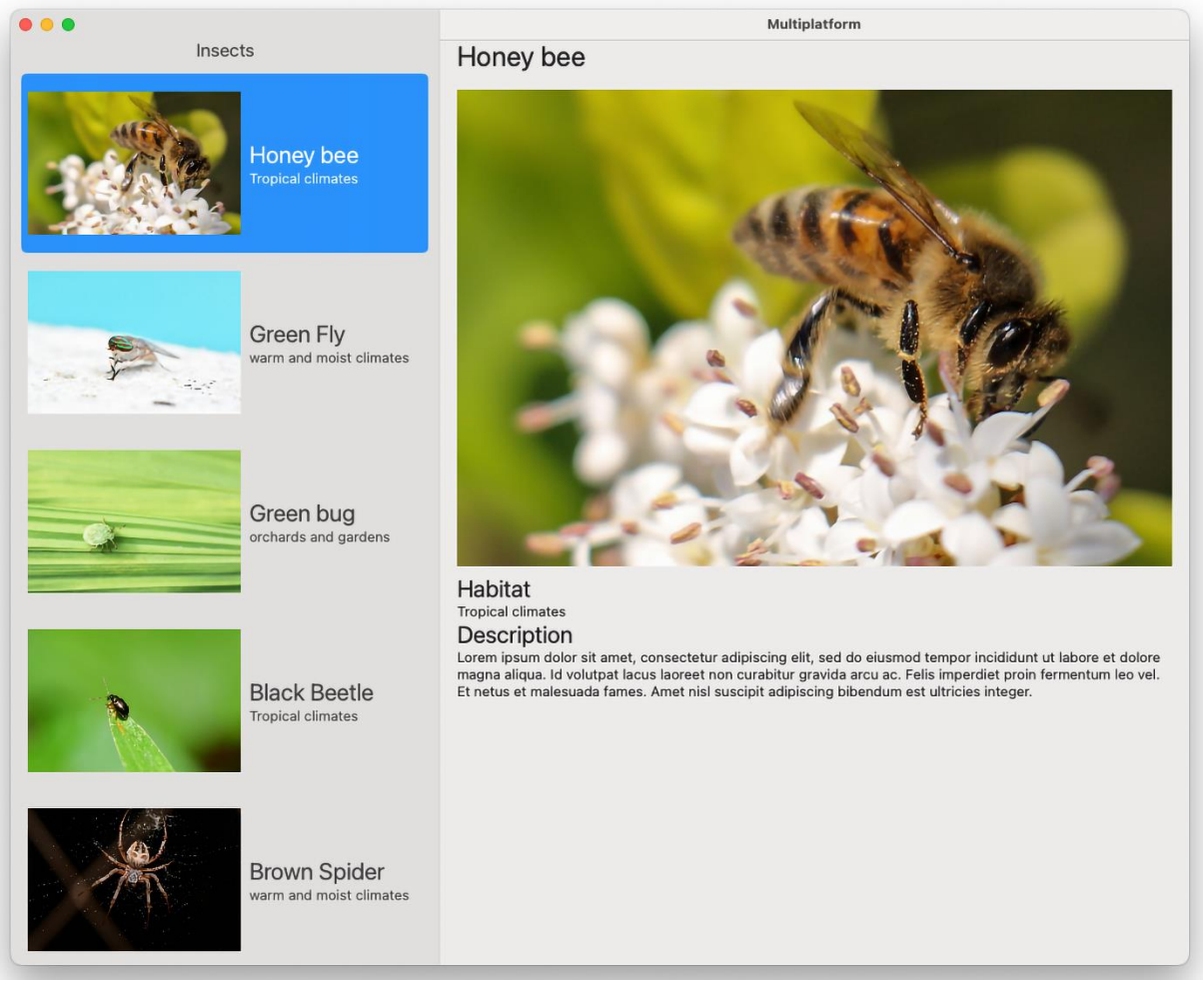

Enable Destination Support?
This target will be updated to accommodate the new destination. Platform filters will also be set for its dependencies and linked frameworks.
Source code will be unaffected and may still require changes.
Cancel
Enable

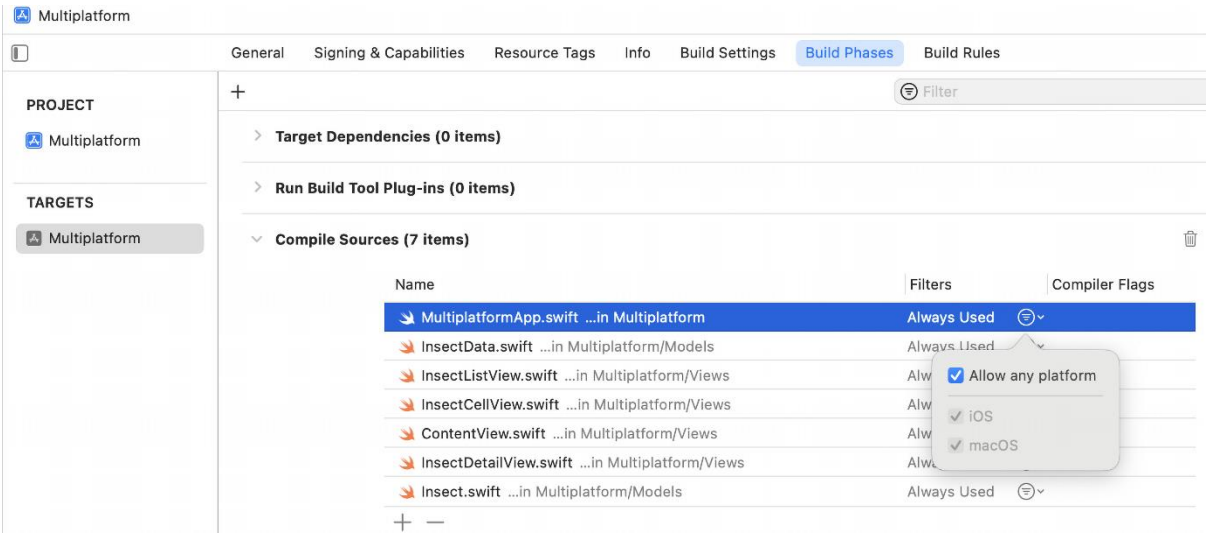

Multiplatform
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
Multiplatform
TARGETS
Multiplatform
Supported Destinations
Destination
SDK
iPhone
iOS
iPad
iOS
Mac
macOS
Mac (Designed for iPad)
iOS

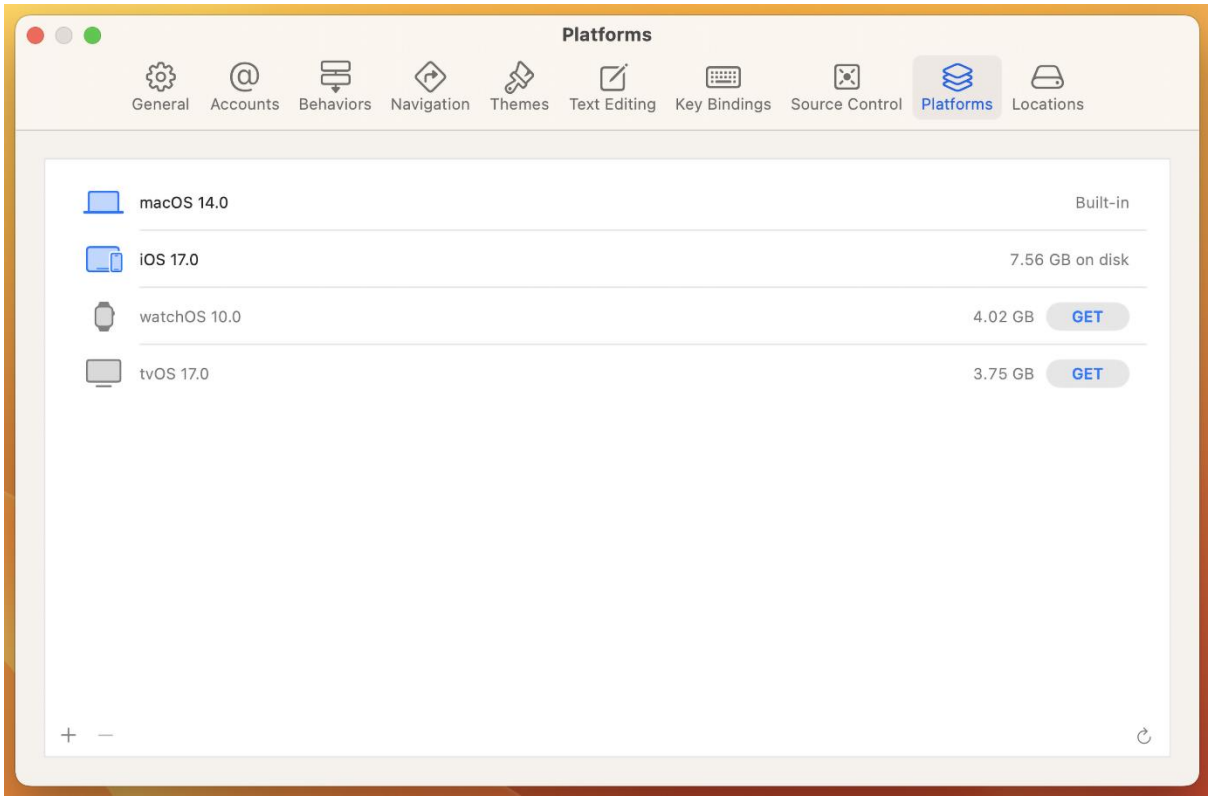

General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
Supported Destinations
Destination
SDK
iPhone
iPad
Mac
Mac (Designed for iPad)
iOS
"Mac (Designed for iPad)" will be superseded by a native Mac app on the App Store.
Remove Destination

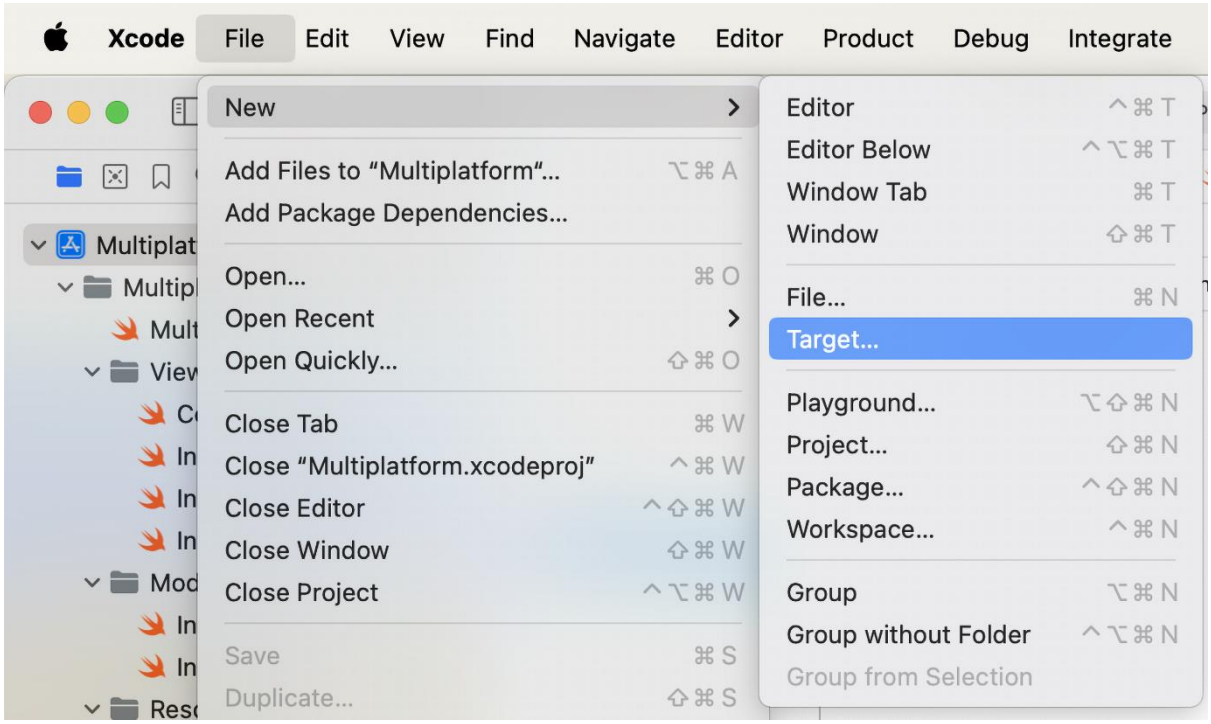

Multiplatform
My Mac (Designed for iPad)
Filter
Recent
My Mac (Designed for iPad)
iPhone 15 Pro
Macs
My Mac

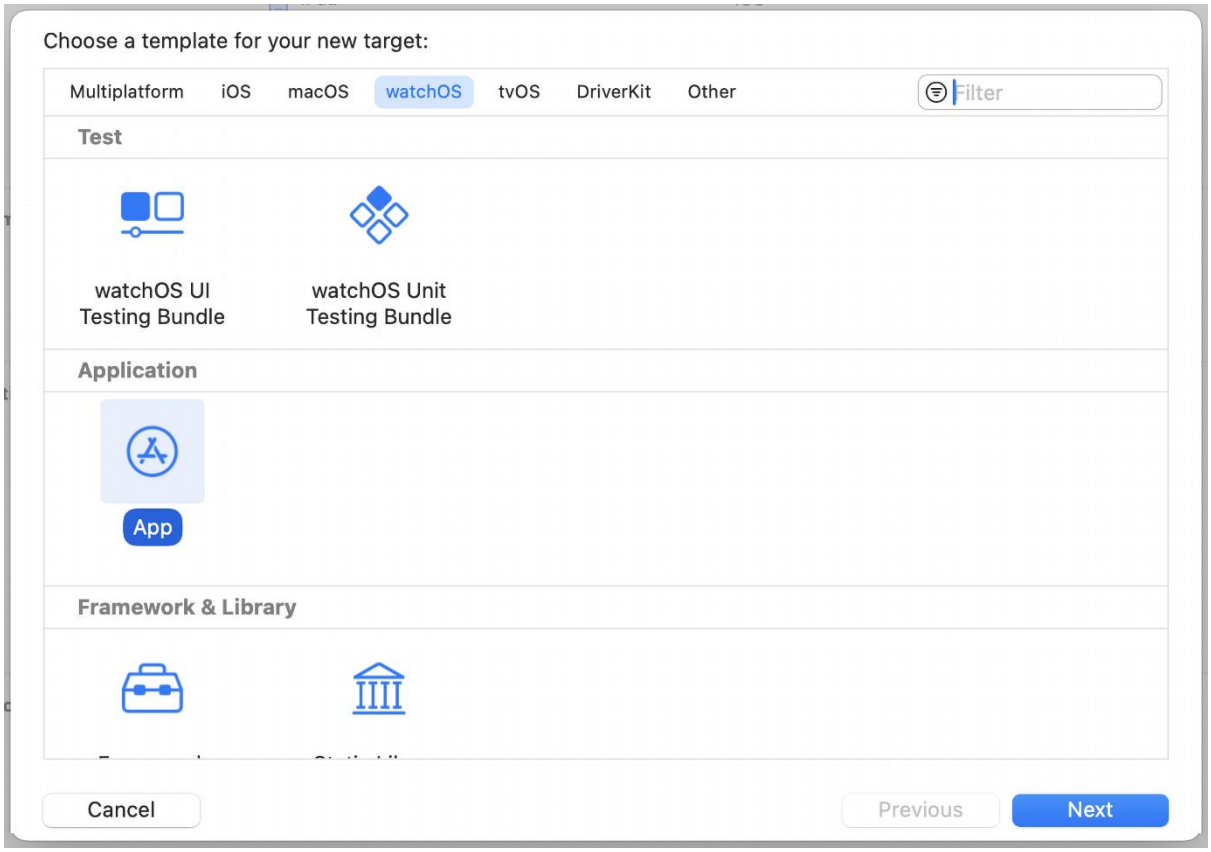

Honey bee
Tropical climates
Green Fly
warm and moist climates
Green bug
orchards and gardens
Black Beetle
Tropical climates
Brown Spider
warm and moist climates
Blue Dragonfly
around lakes and streams
Brown Black Butterfly
deciduous forests
Grasshopper
dry open habitat with lots of grass
Honey bee
Habitat
Tropical climates
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel. Et netus et malesuada fames. Amet nisl suscipit adipiscing bibendum est ultricies integer.

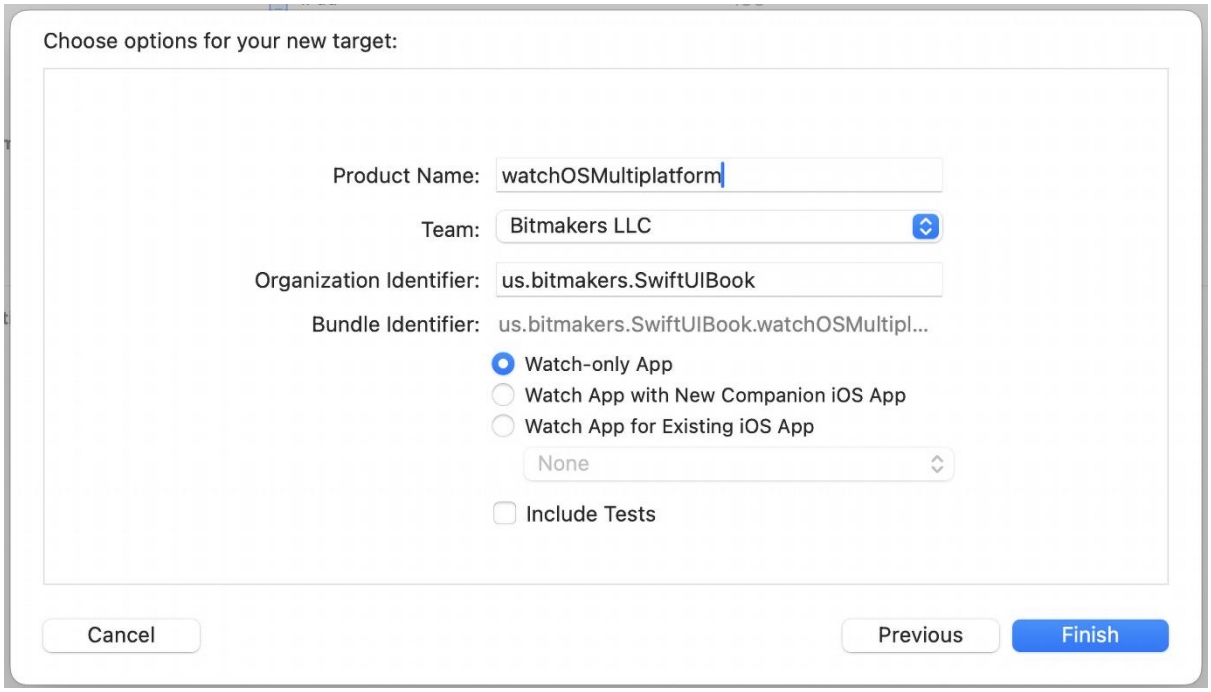

Insects
Honey bee
Tropical climates
Green Fly
warm and moist climates
Green bug
orchards and gardens
Black Beetle
Tropical climates
Brown Spider
warm and moist climates
Multiplatform
Honey bee
Habitat
Tropical climates
Description
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Id volutpat lacus laoreet non curabitur gravida arcu ac. Felis imperdiet proin fermentum leo vel. Et netus et malesuada fames. Amet nisl suscipit adipiscing bibendum est ultricies integer.

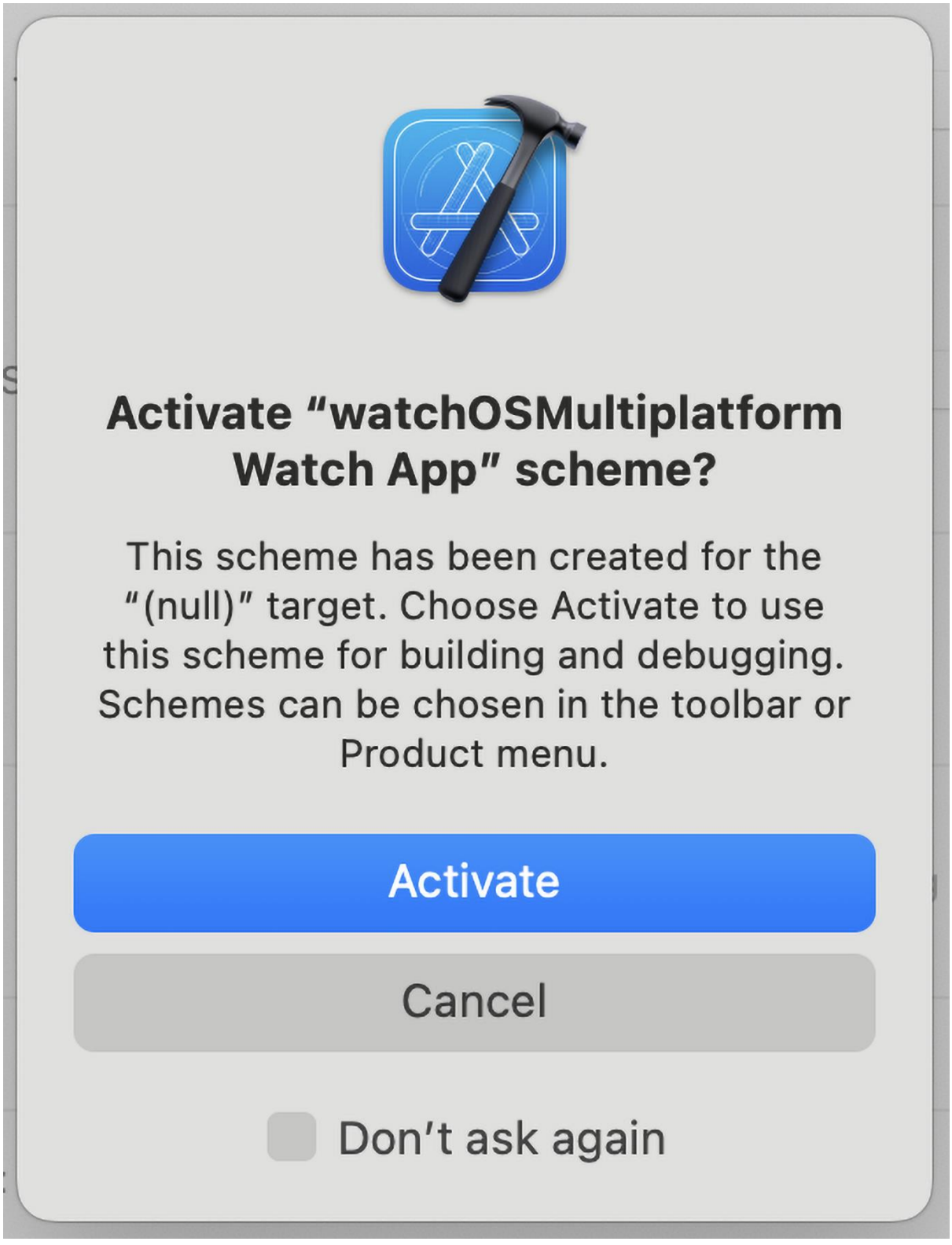

Multiplatform
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
Multiplatform
TARGETS
Multiplatform
Filter
Target Dependencies (0 items)
Run Build Tool Plug-ins (0 items)
Compile Sources (7 items)
Name
Filters
Compiler Flags
MultiplatformApp.swift ...in Multiplatform
Always Used
InsectData.swift ...in Multiplatform/Models
InsectListView.swift ...in Multiplatform/Views
InsectCellView.swift ...in Multiplatform/Views
ContentView.swift ...in Multiplatform/Views
InsectDetailView.swift ...in Multiplatform/Views
Insect.swift ...in Multiplatform/Models
Always Used
Allow any platform
iOS
macOS


Platforms
General
Accounts
Behaviors
Navigation
Themes
Text Editing
Key Bindings
Source Control
Platforms
Locations
macOS 14.0
Built-in
iOS 17.0
7.56 GB on disk
watchOS 10.0
4.02 GB
GET
tvOS 17.0
3.75 GB
GET

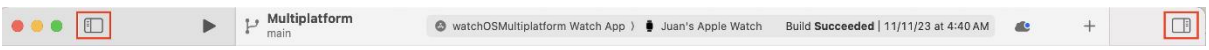

Xcode
File
Edit
View
Find
Navigate
Editor
Product
Debug
Integrate
New
Add Files to "Multiplatform"...
Add Package Dependencies...
Open...
Open Recent
Open Quickly...
Close Tab
Close "Multiplatform.xcodeproj"
Close Editor
Close Window
Close Project
Save
Duplicate...
Editor
Editor Below
Window Tab
Window
File...
Target...
Playground...
Project...
Package...
Workspace...
Group
Group without Folder
Group from Selection

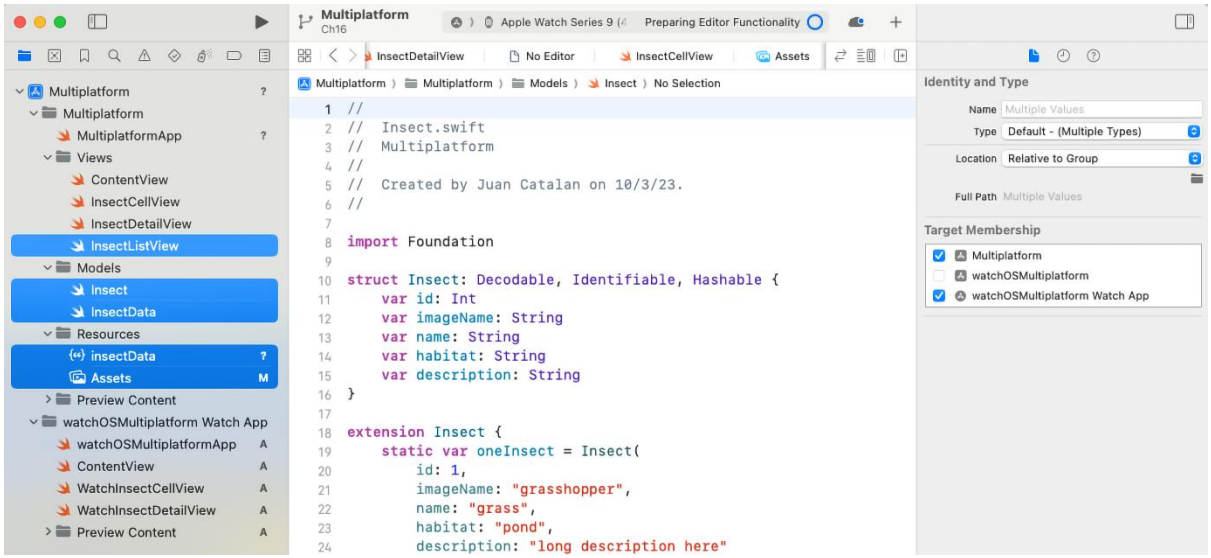

Choose a template for your new target:
Multiplatform
iOS
macOS
watchOS
tvOS
DriverKit
Other
Filter
Test
watchOS UI Testing Bundle
watchOS Unit Testing Bundle
Application
App
Framework & Library
Cancel
Previous
Next

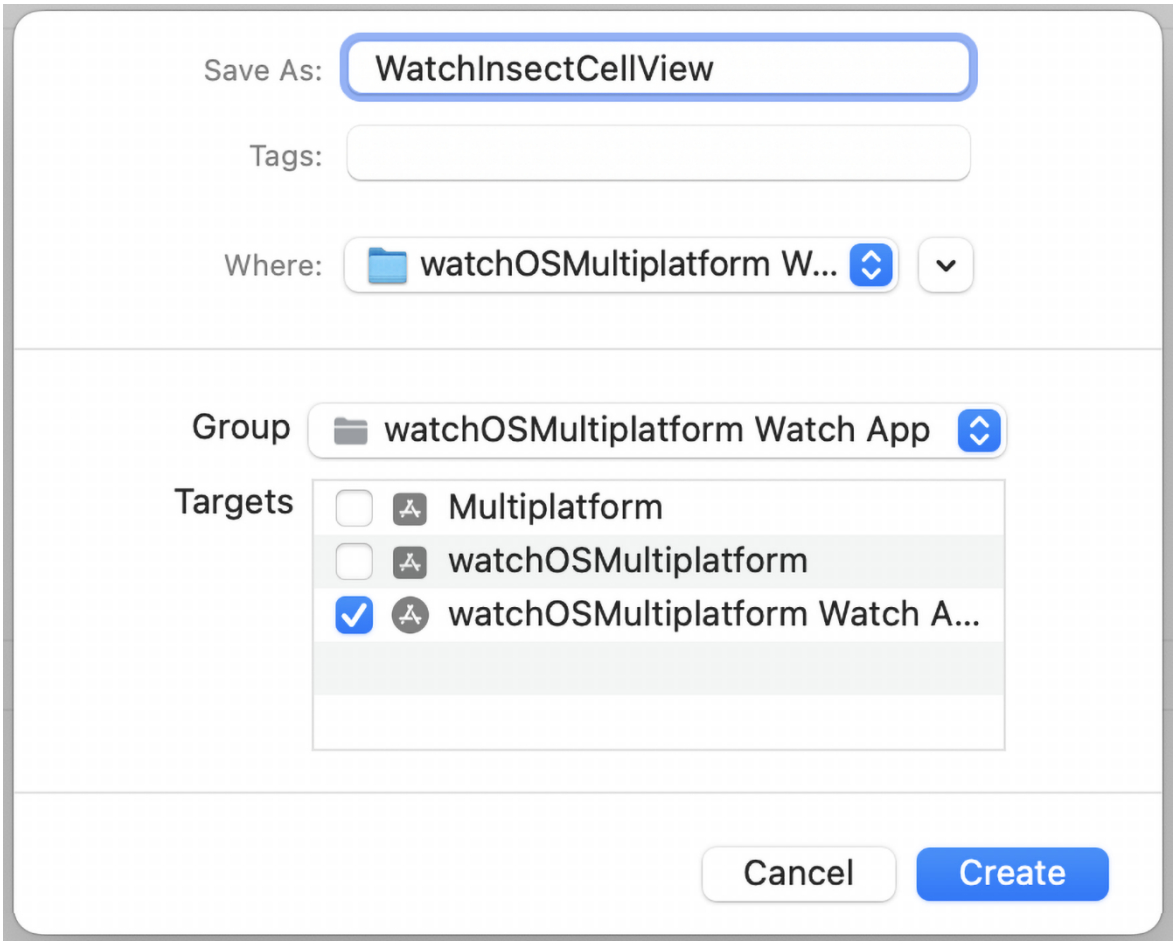

Choose options for your new target:
Product Name:
watchOSMultiplatform
Team:
Bitmakers LLC
Organization Identifier:
us.bitmakers.SwiftUIBook
Bundle Identifier:
us.bitmakers.SwiftUIBook.watchOSMultipl...
Watch-only App
Watch App with New Companion iOS App
Watch App for Existing iOS App
None
Include Tests
Cancel
Previous
Finish


Activate “watchOSMultiplatform Watch App” scheme?
This scheme has been created for the “(null)” target. Choose Activate to use this scheme for building and debugging. Schemes can be chosen in the toolbar or Product menu.
Activate
Cancel
Don’t ask again

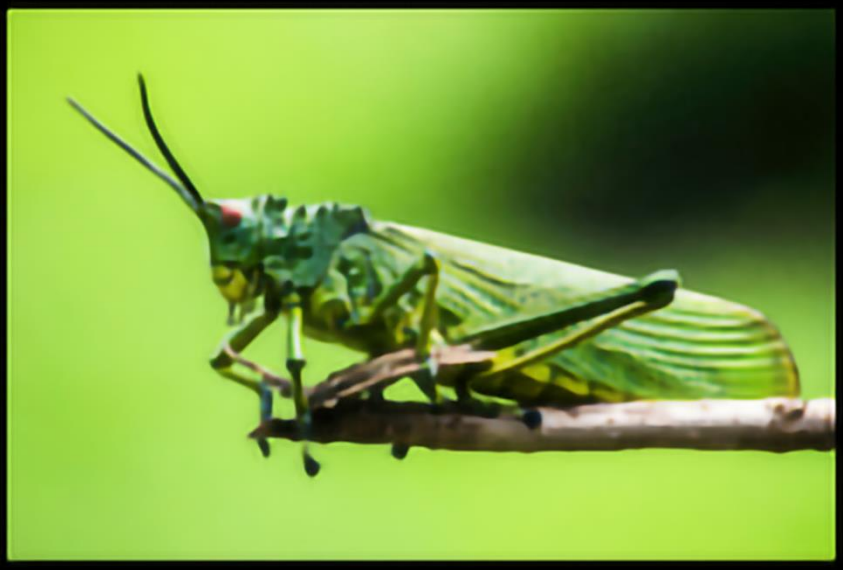

Hello, world!


Multiplatform
main
watchOSMultiplatform Watch App
Juan's Apple Watch
Build Succeeded | 11/11/23 at 4:40 AM


Multiplatform
Ch16
Apple Watch Series 9 (
Preparing Editor Functionality
InsectDetailView
No Editor
InsectCellView
Assets
Multiplatform
Multiplatform
Models
Insect
No Selection
Multiplatform
Multiplatform
MultiplatformApp
Views
ContentView
InsectCellView
InsectDetailView
InsectListView
Models
Insect
InsectData
Resources
insectData
Assets
Preview Content
watchOSMultiplatform Watch App
watchOSMultiplatformApp
ContentView
WatchInsectCellView
WatchInsectDetailView
Preview Content
1 //
2 // Insect.swift
3 // Multiplatform
4 //
5 // Created by Juan Catalan on 10/3/23.
6 //
7
8 import Foundation
9
10 struct Insect: Decodable, Identifiable, Hashable {
11 var id: Int
12 var imageName: String
13 var name: String
14 var habitat: String
15 var description: String
16 }
17
18 extension Insect {
19 static var oneInsect = Insect(
20 id: 1,
21 imageName: "grasshopper",
22 name: "grass",
23 habitat: "pond",
24 description: "long description here"
Identity and Type
Name Multiple Values
Type Default - (Multiple Types)
Location Relative to Group
Full Path Multiple Values
Target Membership
Multiplatform
watchOSMultiplatform
watchOSMultiplatform Watch App


Save As: WatchInsectCellView
Tags:
Where: watchOSMultiplatform W...
Group watchOSMultiplatform Watch App
Targets
Multiplatform
watchOSMultiplatform
watchOSMultiplatform Watch A...
Cancel
Create

grass

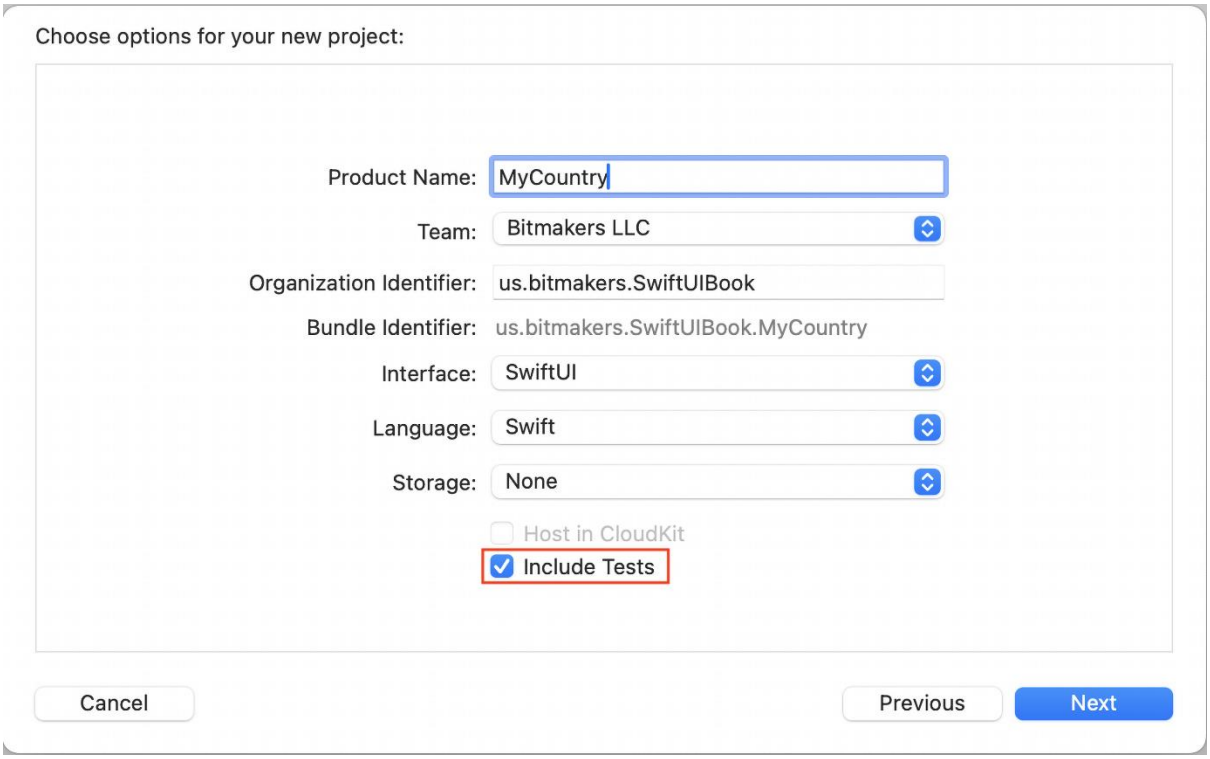


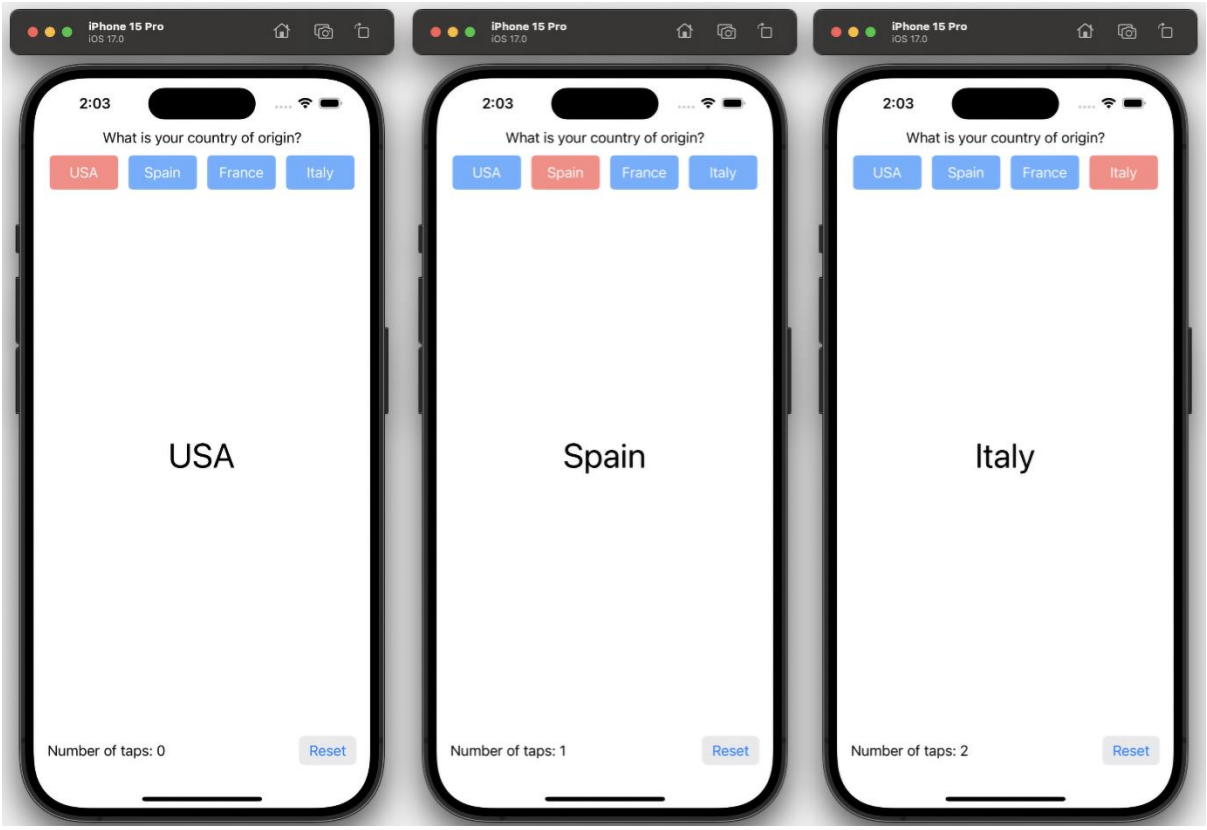
Habitat
pond
Description

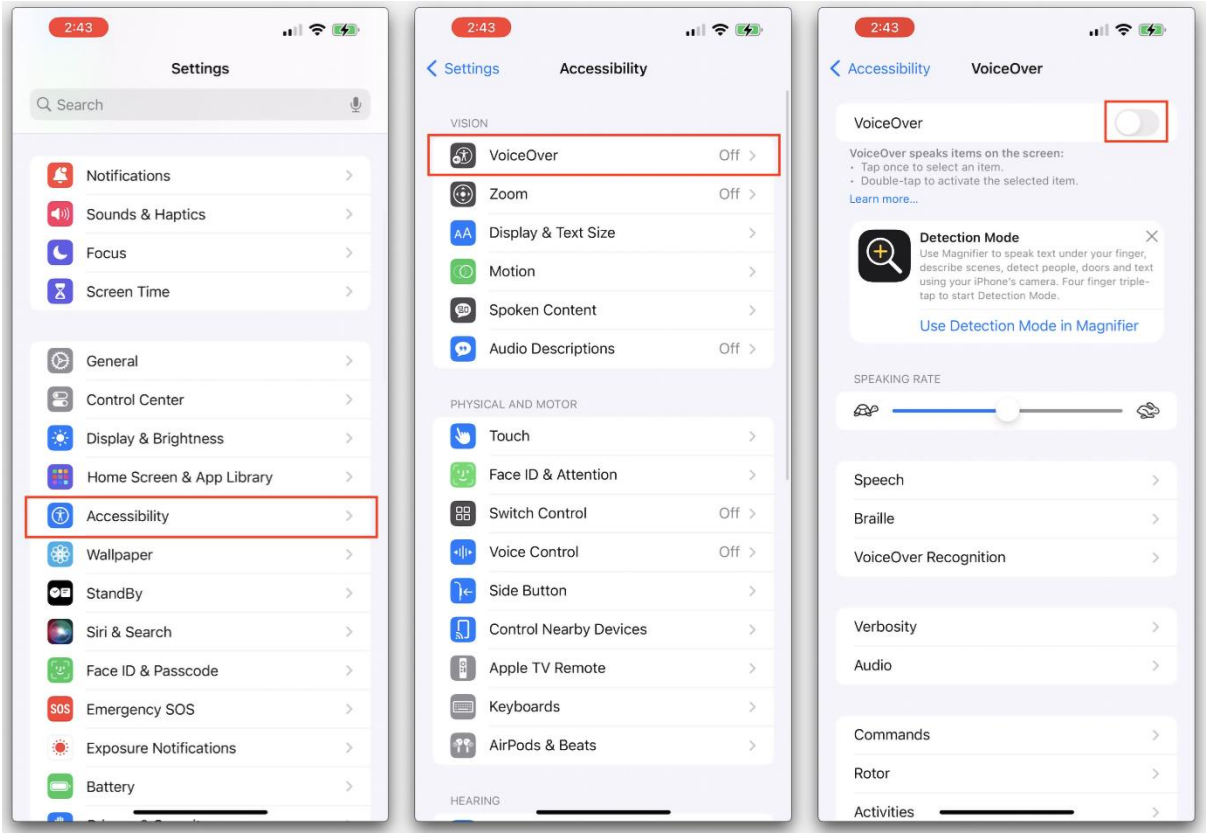

grass
pond

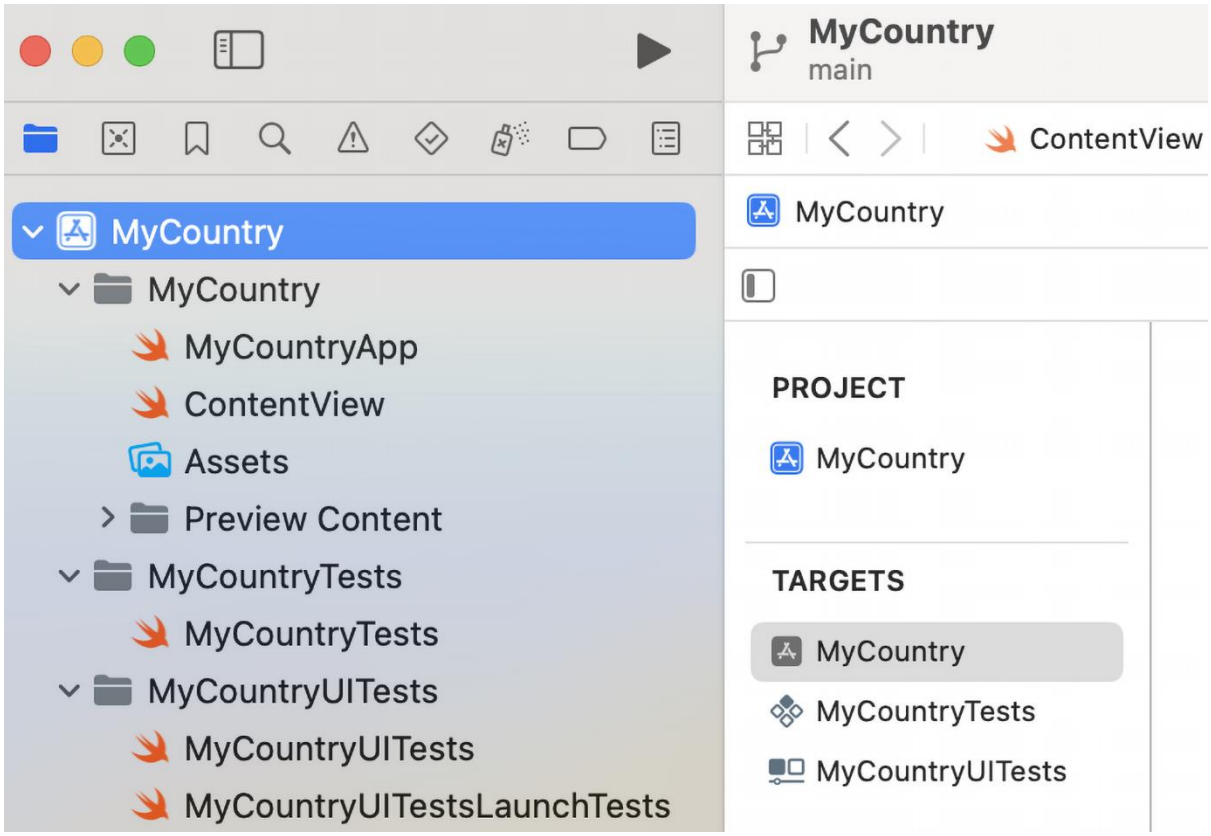


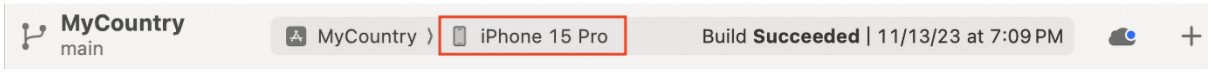
Chapter 17: SwiftUI Tips and Tricks



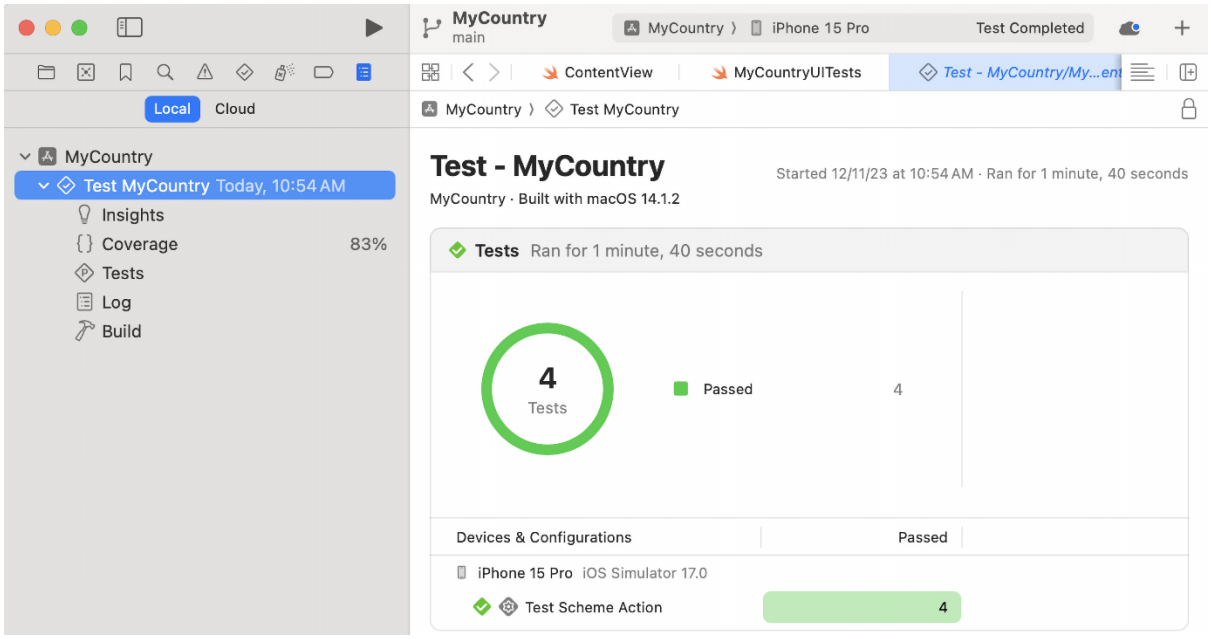

iPhone 15 Pro
iOS 17.0
2:03
What is your country of origin?
USA
Spain
France
Italy
USA
Number of taps: 0
Reset
iPhone 15 Pro
iOS 17.0
2:03
What is your country of origin?
USA
Spain
France
Italy
Spain
Number of taps: 1
Reset
iPhone 15 Pro
iOS 17.0
2:03
What is your country of origin?
USA
Spain
France
Italy
Italy
Number of taps: 2
Reset

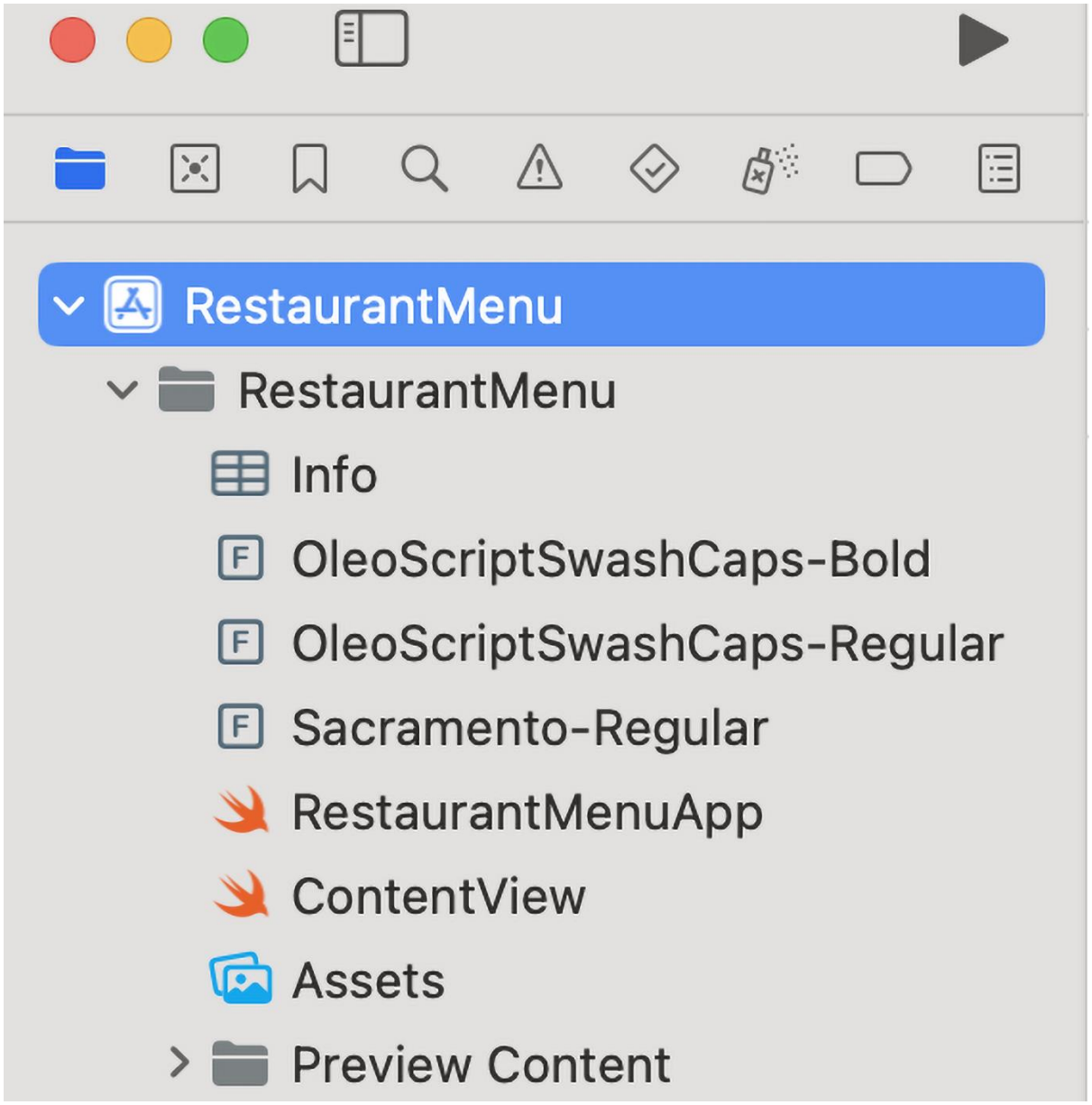

2:43
Settings
Search
Notifications
Sounds & Haptics
Focus
Screen Time
General
Control Center
Display & Brightness
Home Screen & App Library
Accessibility
Wallpaper
StandBy
Siri & Search
Face ID & Passcode
Emergency SOS
Exposure Notifications
Battery
2:43
Settings
Accessibility
VISION
VoiceOver
Off
Zoom
Off
Display & Text Size
Motion
Spoken Content
Audio Descriptions
Off
PHYSICAL AND MOTOR
Touch
Face ID & Attention
Switch Control
Off
Voice Control
Off
Side Button
Control Nearby Devices
Apple TV Remote
Keyboards
AirPods & Beats
HEARING
2:43
Accessibility
VoiceOver
VoiceOver
VoiceOver speaks items on the screen:
• Tap once to select an item.
• Double-tap to activate the selected item.
Learn more...
Detection Mode
Use Magnifier to speak text under your finger, describe scenes, detect people, doors and text using your iPhone's camera. Four finger triple-tap to start Detection Mode.
Use Detection Mode in Magnifier
SPEAKING RATE
Speech
Braille
VoiceOver Recognition
Verbosity
Audio
Commands
Rotor
Activities

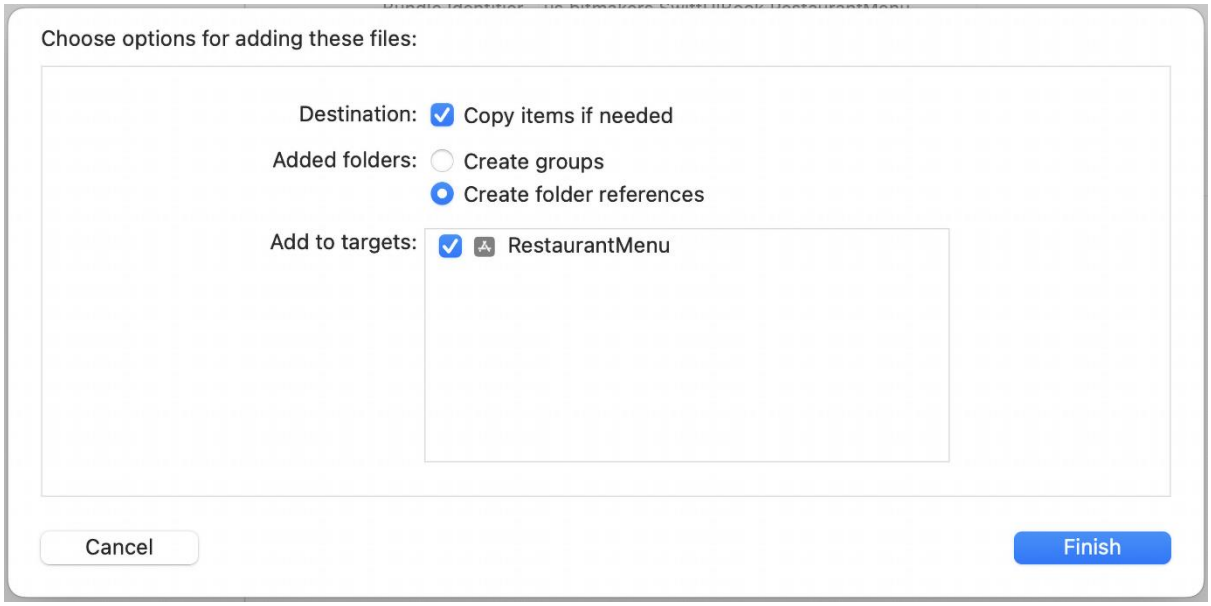


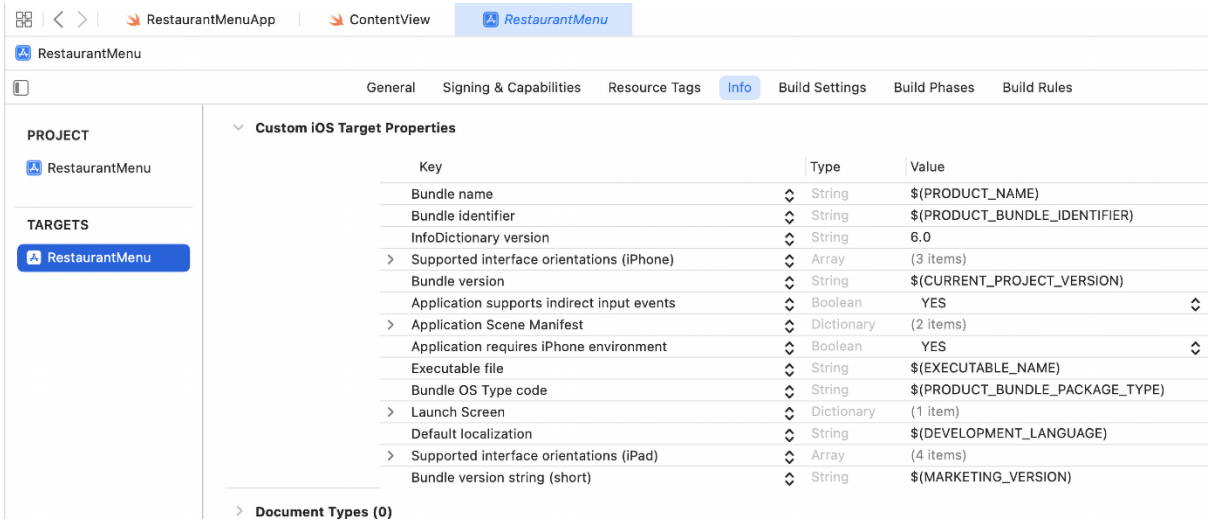



```
func testButtonLabels() throws {
    let expectedLabels = ["US": "USA", "SP" : "Spain", "FR": "France", "IT": "Italy", "Reset": "Reset"]
    let identifiers = expectedLabels.keys
    for identifier in identifiers {
        let expectedLabel = expectedLabels[identifier]!
        let button = app.buttons[identifier]
        let label = button.label
        XCTAssertEqual(expectedLabel, label, "Button '\(expectedLabel)' not present")
    }
}
```


MyCountry
main
MyCountry 〉 iPhone 15 Pro
Test Completed
ContentView
MyCountryUITests
Test - MyCountry/My...ent
Local
Cloud
MyCountry 〉 Test MyCountry
MyCountry
Test MyCountry Today, 10:54 AM
Insights
Coverage 83%
Tests
Log
Build
Test - MyCountry
Started 12/11/23 at 10:54 AM · Ran for 1 minute, 40 seconds
MyCountry · Built with macOS 14.1.2
Tests Ran for 1 minute, 40 seconds
4
Tests
Passed 4
Devices & Configurations
Passed
iPhone 15 Pro iOS Simulator 17.0
Test Scheme Action
4


RestaurantMenu
RestaurantMenu
Info
OleoScriptSwashCaps-Bold
OleoScriptSwashCaps-Regular
Sacramento-Regular
RestaurantMenuApp
ContentView
Assets
Preview Content


Choose options for adding these files:
Destination:
Copy items if needed
Added folders:
Create groups
Create folder references
Add to targets:
RestaurantMenu
Cancel
Finish


RestaurantMenuApp
ContentView
RestaurantMenu
RestaurantMenu
General
Signing & Capabilities
Resource Tags
Info
Build Settings
Build Phases
Build Rules
PROJECT
RestaurantMenu
TARGETS
RestaurantMenu
Custom iOS Target Properties
Key
Type
Value
Bundle name
String
$(PRODUCT_NAME)
Bundle identifier
String
$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version
String
6.0
Supported interface orientations (iPhone)
Array
(3 items)
Bundle version
String
$(CURRENT_PROJECT_VERSION)
Application supports indirect input events
Boolean
YES
Application Scene Manifest
Dictionary
(2 items)
Application requires iPhone environment
Boolean
YES
Executable file
String
$(EXECUTABLE_NAME)
Bundle OS Type code
String
$(PRODUCT_BUNDLE_PACKAGE_TYPE)
Launch Screen
Dictionary
(1 item)
Default localization
String
$(DEVELOPMENT_LANGUAGE)
Supported interface orientations (iPad)
Array
(4 items)
Bundle version string (short)
String
$(MARKETING_VERSION)
Document Types (0)

Custom iOS Target Properties

Key	Type	Value
Bundle name	String	$(PRODUCT_NAME)
Bundle identifier	String	$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Supported interface orientations (iPhone)	Array	(3 items)
Bundle version	String	$(CURRENT_PROJECT_VERSION)
Application supports indirect input events	Boolean	YES
Application Scene Manifest	Dictionary	(2 items)
Application requires iPhone environment	Boolean	YES
Executable file	String	$(EXECUTABLE_NAME)
Bundle OS Type code	String	$(PRODUCT_BUNDLE_PACKAGE_TYPE
Launch Screen	Dictionary	(1 item)
Default localization	String	$(DEVELOPMENT_LANGUAGE)
Supported interface orientations (iPad)	Array	(4 items)
Bundle version string (short)	String	$(MARKETING_VERSION)
	String	

- Fonts provided by application
- Get Info string
- Help Book directory name
- Help Book identifier
- Help file
- High Resolution Capable
- Home Screen Shortcut Items
- Home Screen Widget
- Icon already includes gloss effects
- Icon file
- Icon files

Document Types (

Exported Type Ide

Imported Type Ide

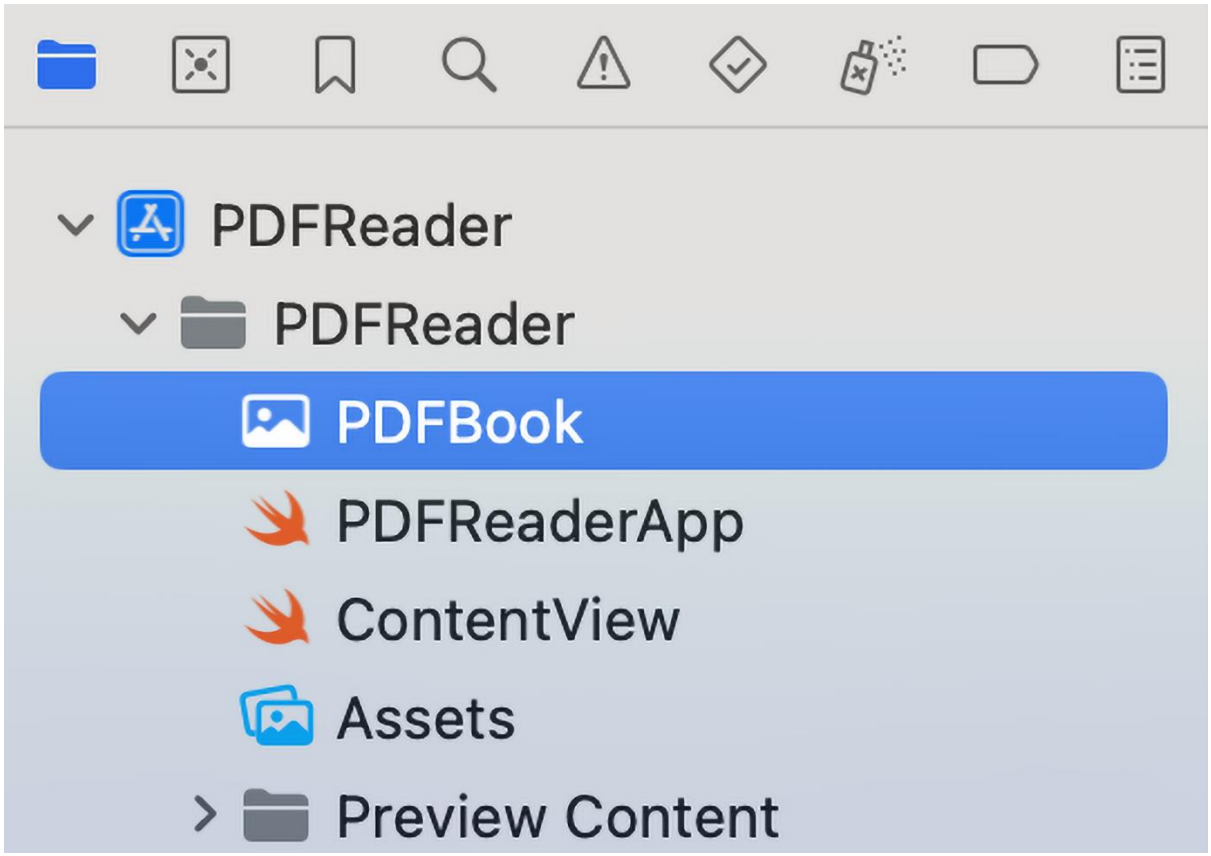
URL Types (0)

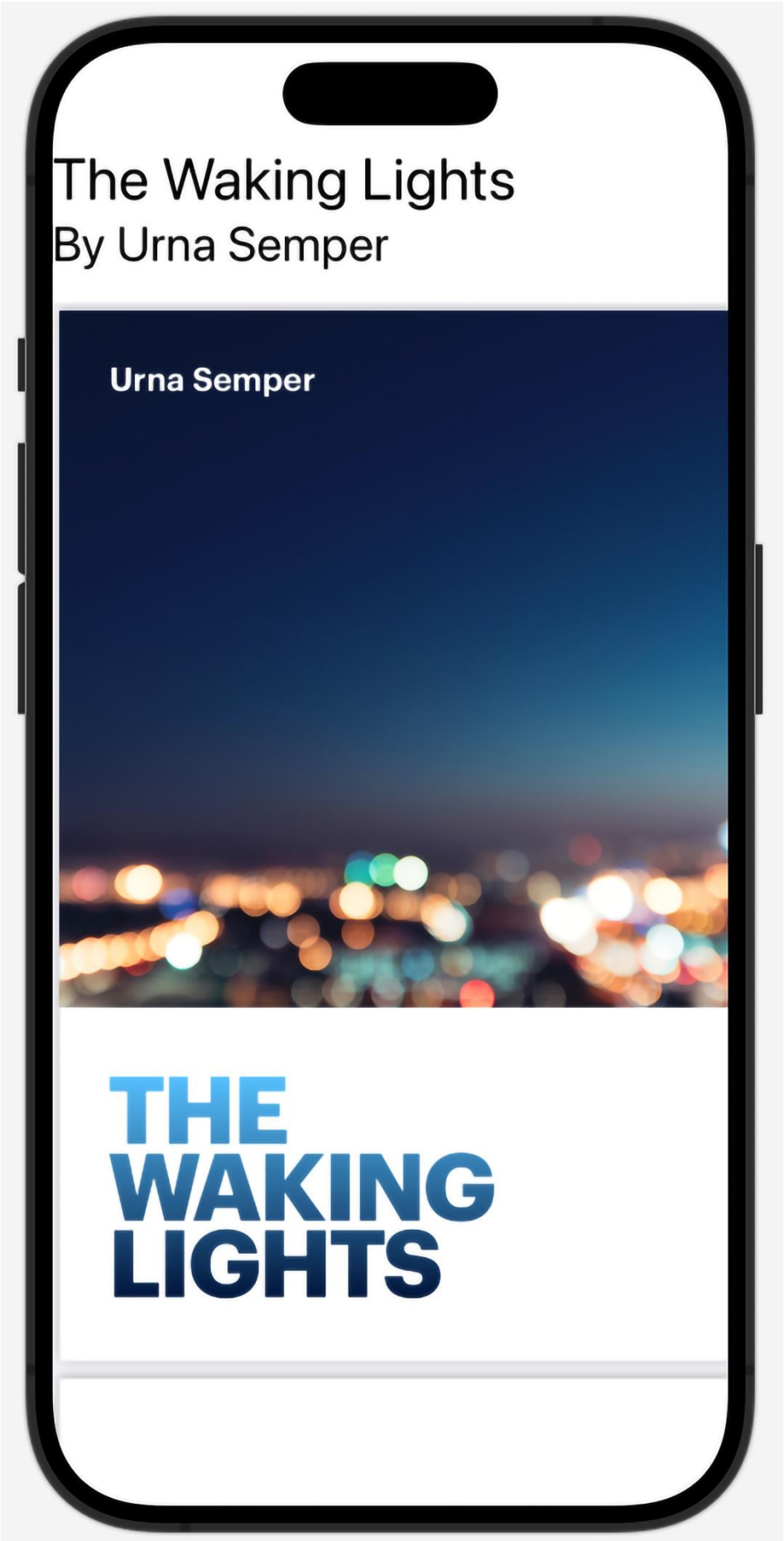
Custom iOS Target Properties

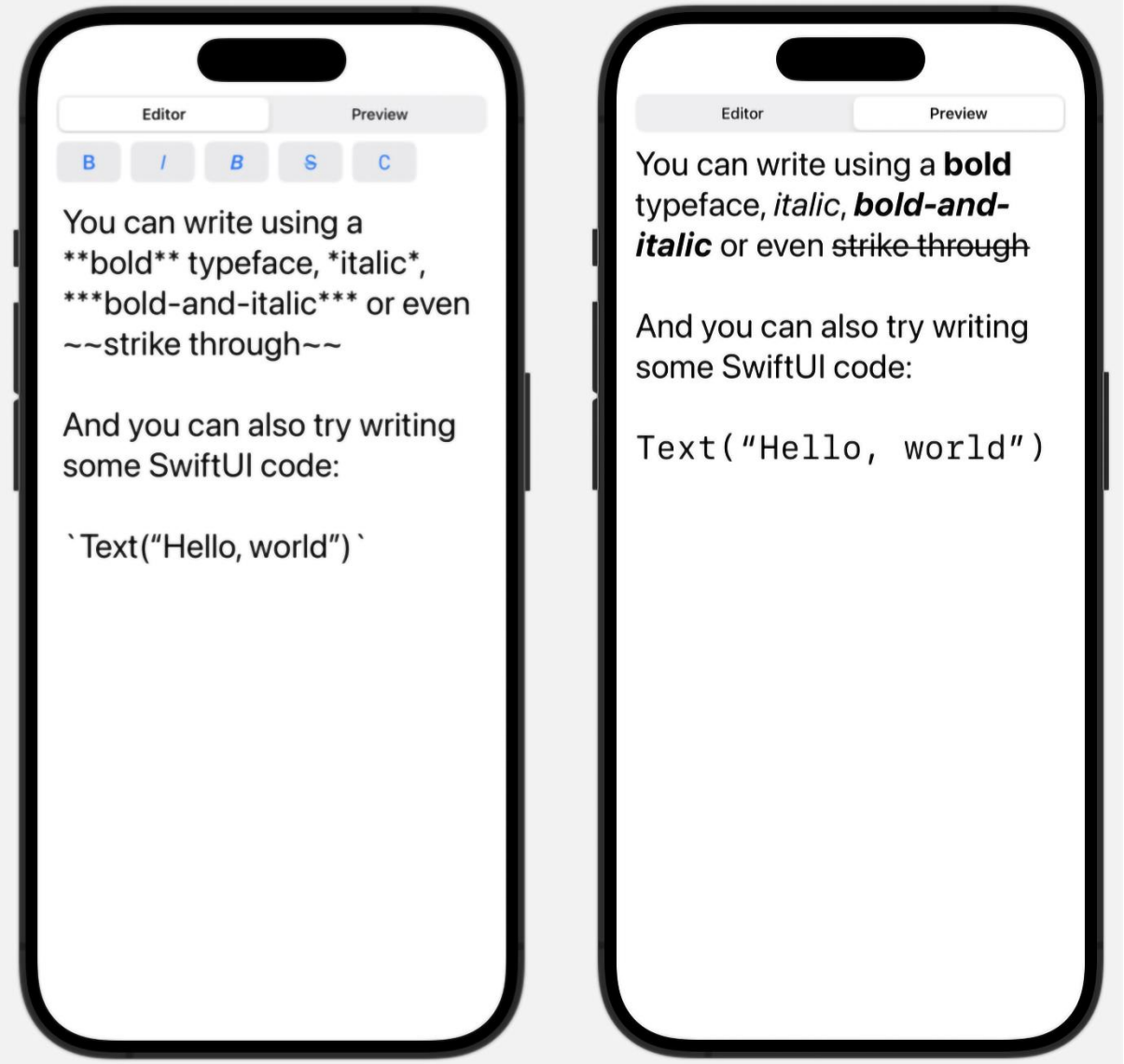
Key	Type	Value
Bundle name	String	$(PRODUCT_NAME)
Bundle identifier	String	$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Supported interface orientations (iPhone)	Array	(3 items)
Bundle version	String	$(CURRENT_PROJECT_VERSION)
Application supports indirect input events	Boolean	YES
Application Scene Manifest	Dictionary	(2 items)
Application requires iPhone environment	Boolean	YES
Executable file	String	$(EXECUTABLE_NAME)
Fonts provided by application	Array	(3 items)
Item 0	String	OleoScriptSwashCaps-Bold.ttf
Item 1	String	OleoScriptSwashCaps-Regular.ttf
Item 2	String	Sacramento-Regular.ttf
Bundle OS Type code	String	$(PRODUCT_BUNDLE_PACKAGE_TYPE)
Launch Screen	Dictionary	(1 item)
Default localization	String	$(DEVELOPMENT_LANGUAGE)
Supported interface orientations (iPad)	Array	(4 items)
Bundle version string (short)	String	$(MARKETING_VERSION)

Document Types (0)


Casa Mia
Restaurant
Pizza Margherita $10
Fettuccine Alfredo $14
Pollo Arrosto $19
Insalata Caprese $12
Gelato $9


PDFReader
PDFReader
PDFBook
PDFReaderApp
ContentView
Assets
Preview Content


The Waking Lights
By Urna Semper
Urna Semper
THE
WAKING
LIGHTS


Editor
Preview
B
I
B
S
C
You can write using a **bold** typeface, *italic*, ***bold-and-italic*** or even ~~strike through~~
And you can also try writing some SwiftUI code:
`Text("Hello, world")`
Editor
Preview
You can write using a **bold** typeface, *italic*, ***bold-and-italic*** or even ~~strike through~~
And you can also try writing some SwiftUI code:
Text("Hello, world")