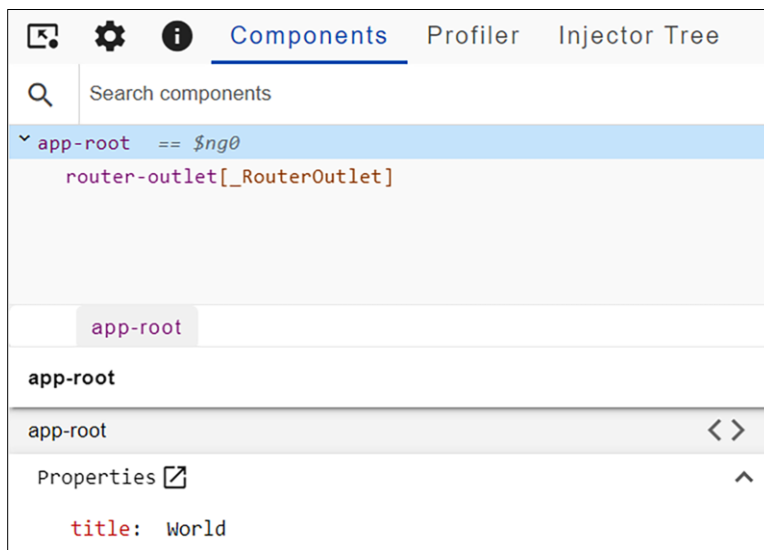
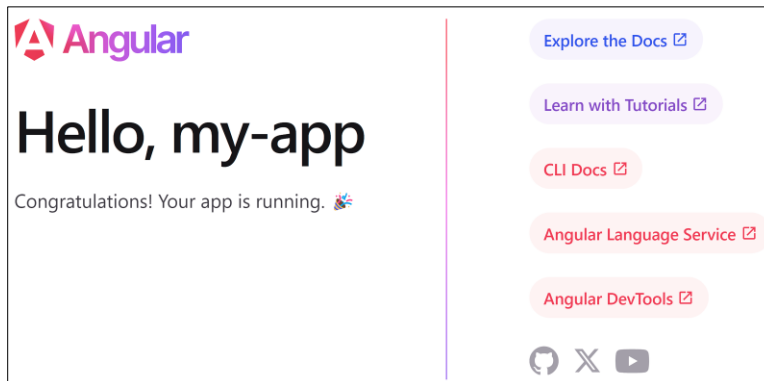
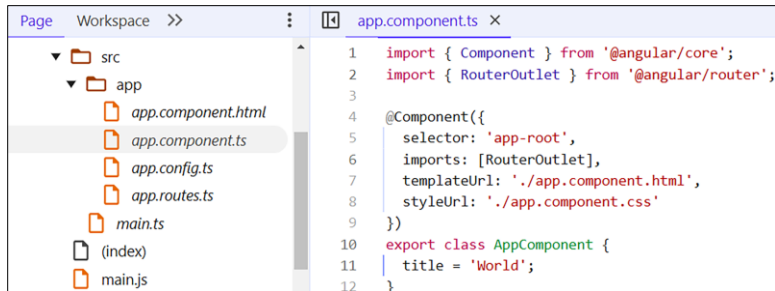
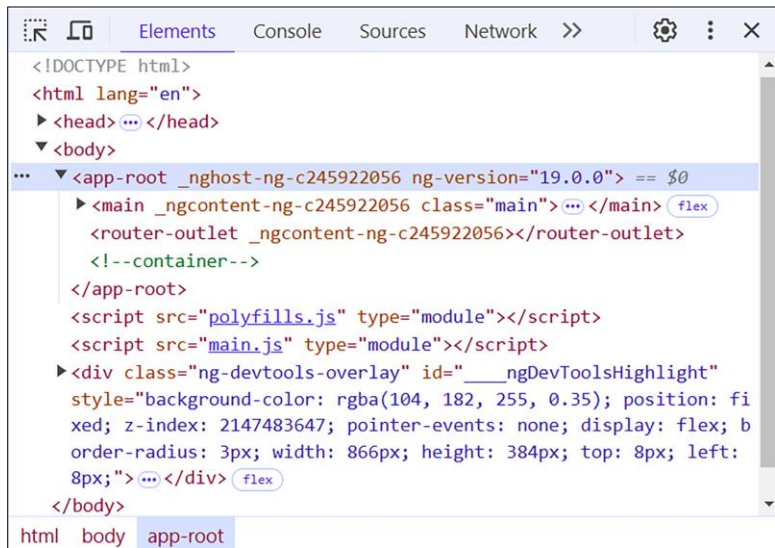


Chapter 1: Building Your First Angular Application

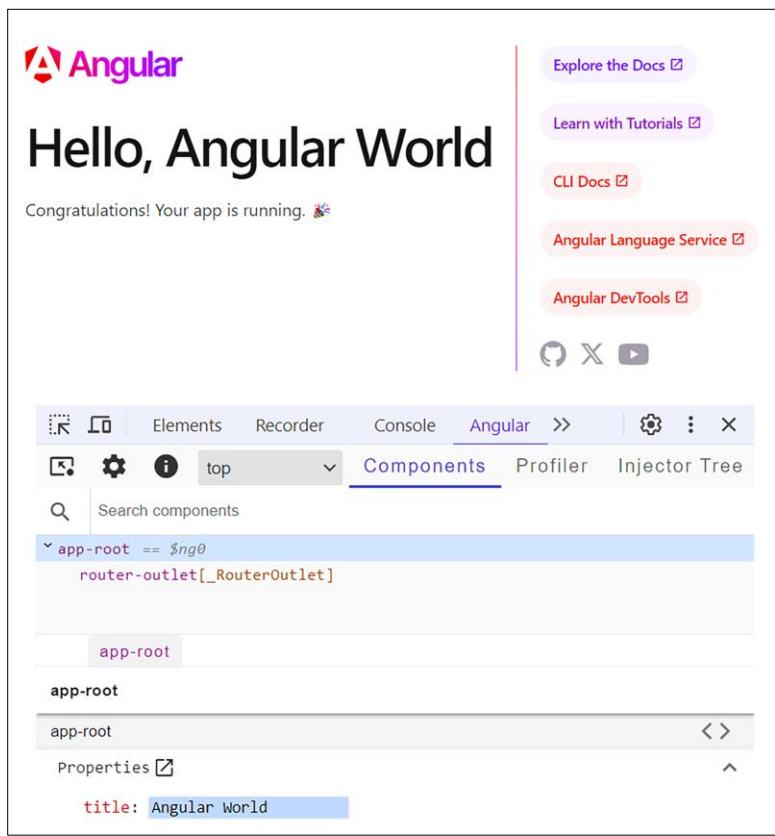




```
1 import { Component } from '@angular/core';
2 import { RouterOutlet } from '@angular/router';
3
4 @Component({
5   selector: 'app-root',
6   imports: [RouterOutlet],
7   templateUrl: './app.component.html',
8   styleUrls: ['./app.component.css']
9 })
10 export class AppComponent {
11   title = 'World';
12 }
```



```
<!DOCTYPE html>
<html lang="en">
  <head> </head>
  <body>
    <app-root _ngghost-ng-c245922056 ng-version="19.0.0"> == $0
      <main _ngcontent-ng-c245922056 class="main"> </main> flex
        <router-outlet _ngcontent-ng-c245922056></router-outlet>
        <!--container-->
      </app-root>
      <script src="polyfills.js" type="module"></script>
      <script src="main.js" type="module"></script>
      <div class="ng-devtools-overlay" id="__ngDevToolsHighlight"
        style="background-color: rgba(104, 182, 255, 0.35); position: fixed; z-index: 2147483647; pointer-events: none; display: flex; border-radius: 3px; width: 866px; height: 384px; top: 8px; left: 8px;"> </div> flex
    </body>
  </html>
```





Hello, Angular World

Congratulations! Your app is running. 🎉

[Explore the Docs](#)
[Learn with Tutorials](#)
[CLI Docs](#)
[Angular Language Service](#)
[Angular DevTools](#)

top

Components

Profiler

Injector Tree

Search components

app-root == \$ng0

router-outlet[_RouterOutlet]

app-root

app-root

Properties

title: Angular World

```
TS app.component.ts M X
src > app > TS app.component.ts > ...
1  import { Component } from '@angular/core';
2  import { RouterOutlet } from '@angular/router';
3
4  @Component({
5    selector: 'app-root',
6    imports: [RouterOutlet],
7    templateUrl: './app.component.html',
8    styleUrls: ['./app.component.css']
9  })
10 export class AppComponent {
11   title = 'World';
12 }
```

RUN AND DEBUG

 ng serve







```
export class AppComponent {
  title = 'World';
}
```

{{descr}} 

 description (property) AppComponent.description: stri...

Property 'descr' does not exist on type 'AppComponent'. ngts(2339)

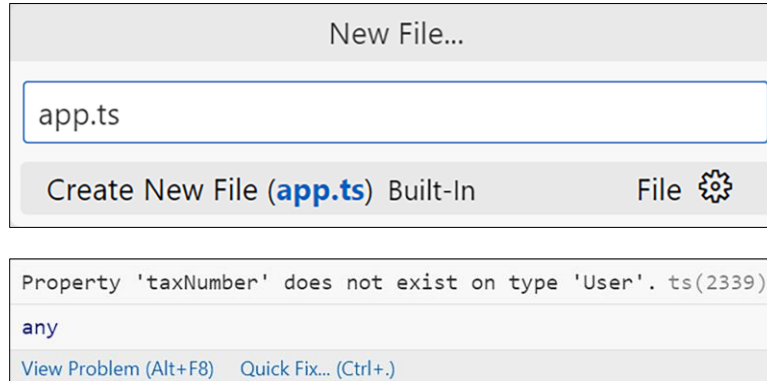
app.component.ts(1, 23): Error occurs in the template of component AppComponent.

any

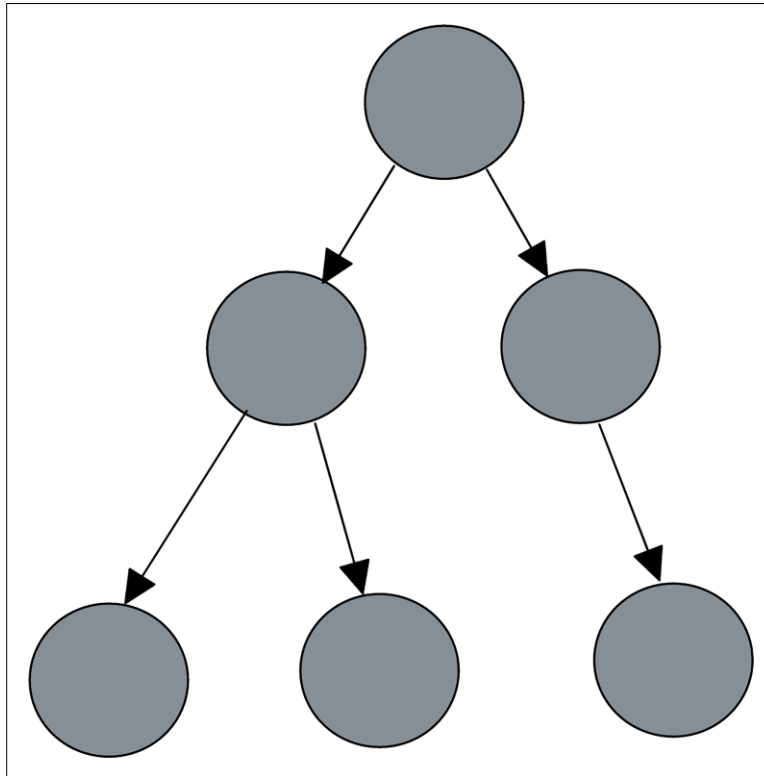
View Problem (Alt+F8) Quick Fix... (Ctrl+.)

- >  .angular
- >  .vscode
- >  node_modules
- >  public
- ✓  src
 - ✓  app
 -  app.component.css
 -  app.component.html
 -  app.component.spec.ts
 -  app.component.ts
 -  app.config.ts
 -  app.routes.ts
 -  index.html
 -  main.ts
 -  styles.css

Chapter 2: Introduction to TypeScript



Chapter 3: Structuring User Interfaces with Components



No products found!

Products (4)

Keyboard

Microphone

Web camera

Tablet

Products (4)



Keyboard



Microphone

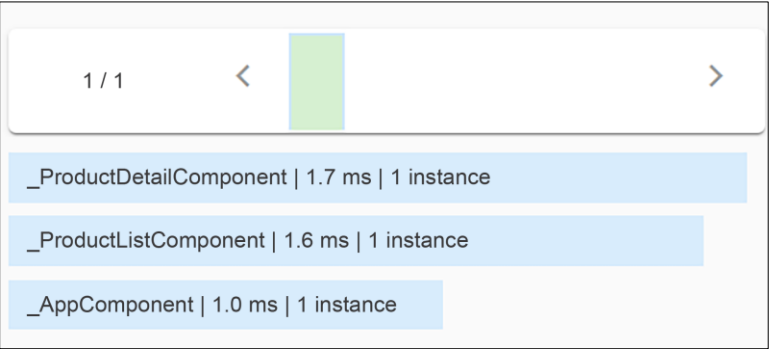
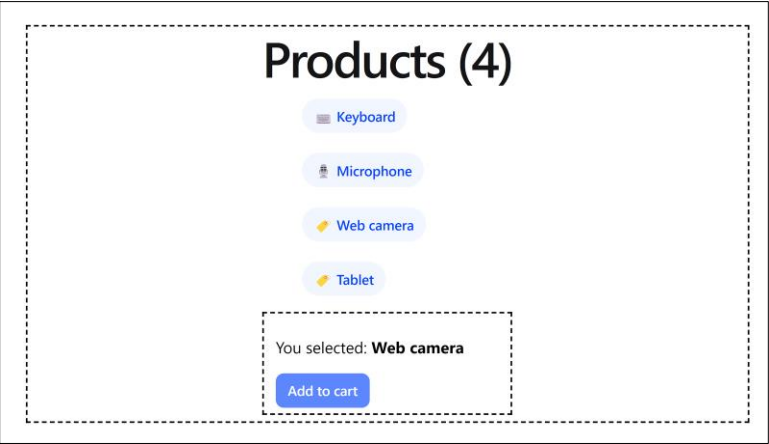
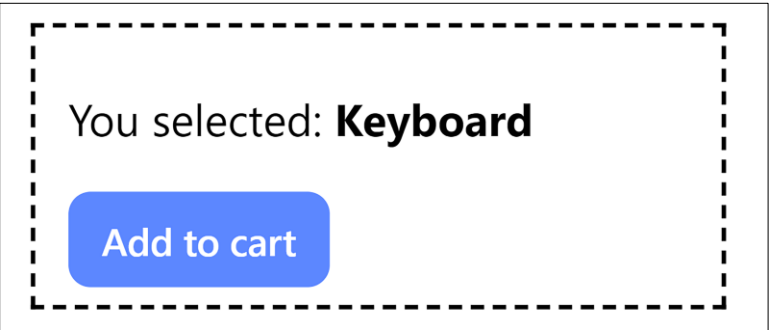
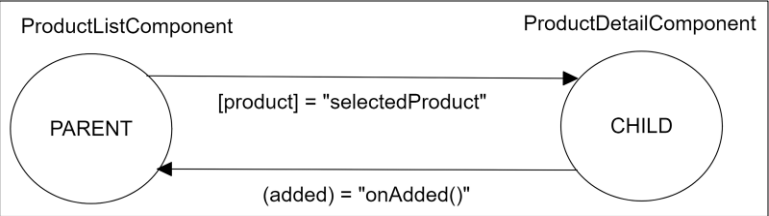
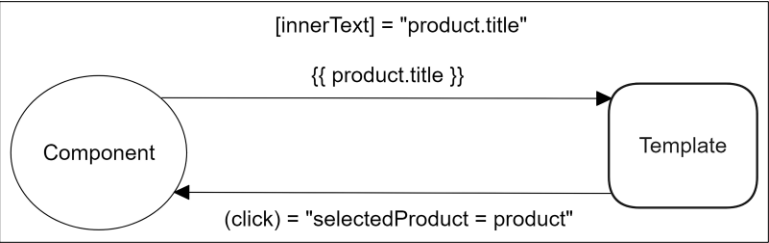


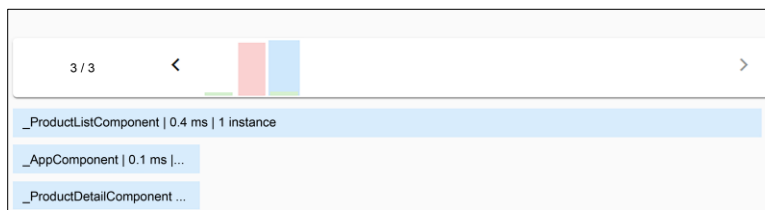
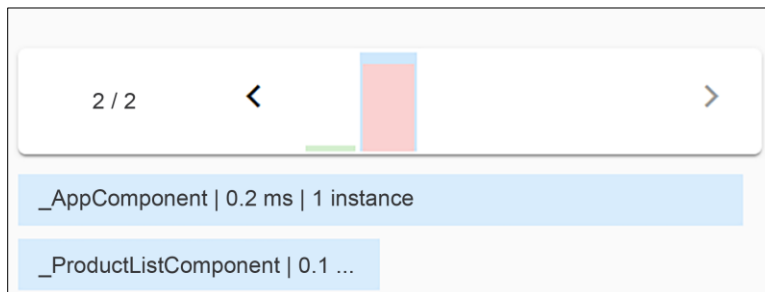
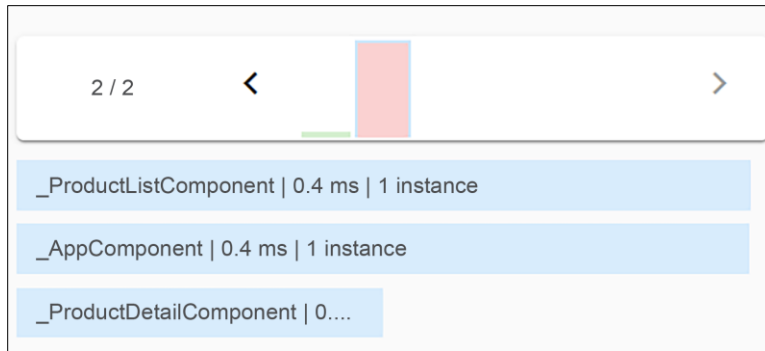
Web camera



Tablet

You selected: **Microphone**





Product: undefined

Product: ► {id: 1, title: 'Keyboard'}

Old value undefined

New value undefined

Angular is running in development mode.

Old value undefined

New value ► {id: 3, title: 'Web camera'}

Chapter 4: Enriching Applications Using Pipes and Directives

You selected: **Microphone**

€35.00

Add to cart

You selected: **Web camera**

€79.00

computing

multimedia

Add to cart

Products (4)



Keyboard



Microphone



Tablet



Web camera



Microphone



Web camera



Keyboard



Tablet

Products (4)



Keyboard



Microphone



Tablet



Web camera

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Chapter 5: Managing Complex Tasks with Services

Products (4)



Keyboard



Microphone



Tablet



Web camera

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 **Components** Profiler Injector Tree

 Search components

▼ app-root

▼ app-product-list == \$ng0

app-product-detail

footer[_CopyrightDirective]

router-outlet[_RouterOutlet]

app-root app-product-list

app-product-list

app-product-list < >

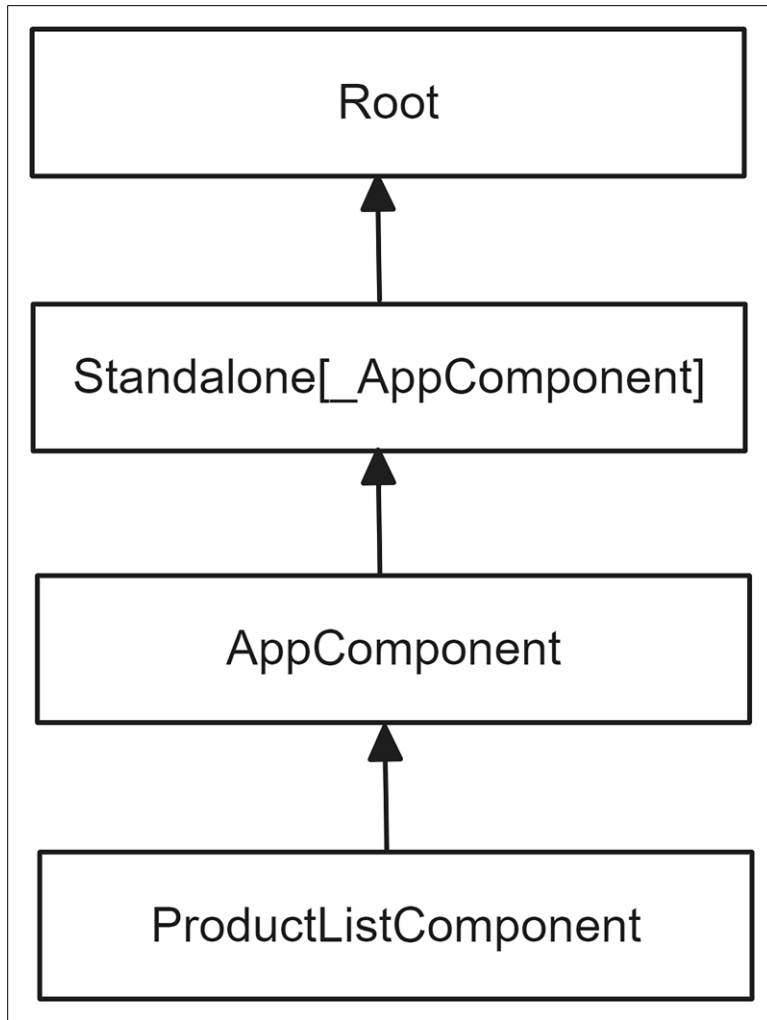
Injected Services  ^

ProductsService v

Properties  ^

productService: {}

> products : Array(4)



Products (4)



Keyboard



Microphone



Tablet



Web camera

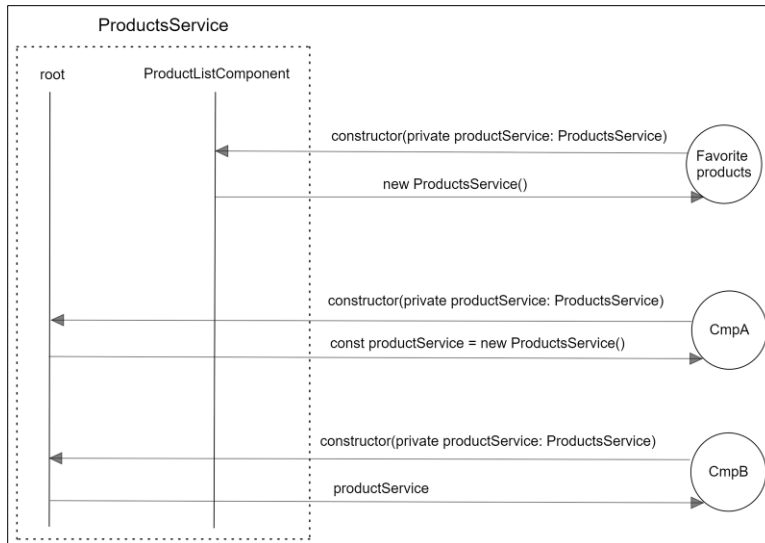
Favorites



Microphone



Web camera



Products (4)



Keyboard



Keyboard



Keyboard



Keyboard

Favorites



Microphone



Web camera

Chapter 6: Reactive Patterns in Angular

You pressed: angular

You pressed: 19

Products (4)



Keyboard



Microphone



Tablet



Web camera

Chapter 8: Communicating with Data Services over HTTP

Products (20)

- ✦ Acer SB220Q bi 21.5 inches Full HD (1920 x 1080) IPS Ultra-Thin
- ✦ BIYLACLESEN Women's 3-in-1 Snowboard Jacket Winter Coats
- ✦ DANVOUY Womens T Shirt Casual Cotton Short
- ✦ Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops
- ✦ John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet
- ✦ Lock and Love Women's Removable Hooded Faux Leather Moto Biker Jacket
- ✦ MBJ Women's Solid Short Sleeve Boat Neck V
- ✦ Mens Casual Premium Slim Fit T-Shirts
- ✦ Mens Casual Slim Fit
- ✦ Mens Cotton Jacket
- ✦ Opna Women's Short Sleeve Moisture
- ✦ Pierced Owl Rose Gold Plated Stainless Steel Double
- ✦ Rain Jacket Women Windbreaker Striped Climbing Raincoats
- ✦ Samsung 49-Inch CHG90 144Hz Curved Gaming Monitor (LC49HG90DMNXZA) – Super Ultrawide Screen QLED
- ✦ SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s
- ✦ Silicon Power 256GB SSD 3D NAND A55 SLC Cache Performance Boost SATA III 2.5
- ✦ Solid Gold Petite Micropave

Products (10)

 Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

 John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

 Mens Casual Premium Slim Fit T-Shirts

 Mens Casual Slim Fit

 Mens Cotton Jacket

 Pierced Owl Rose Gold Plated Stainless Steel Double

 SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s

 Solid Gold Petite Micropave

 WD 2TB Elements Portable External Hard Drive - USB 3.0

 White Gold Plated Princess

 Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

 John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

 Mens Casual Premium Slim Fit T-Shirts

 Mens Casual Slim Fit

 Mens Cotton Jacket

 Pierced Owl Rose Gold Plated Stainless Steel Double

 SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s

 Solid Gold Petite Micropave

 WD 2TB Elements Portable External Hard Drive - USB 3.0

 White Gold Plated Princess

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€109.00

electronics

Add to cart

Add new product

Title

Price

Category

Select a category



Create

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€109.00

New price

Change

electronics

Add to cart

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€79.00

Change

electronics

Add to cart

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

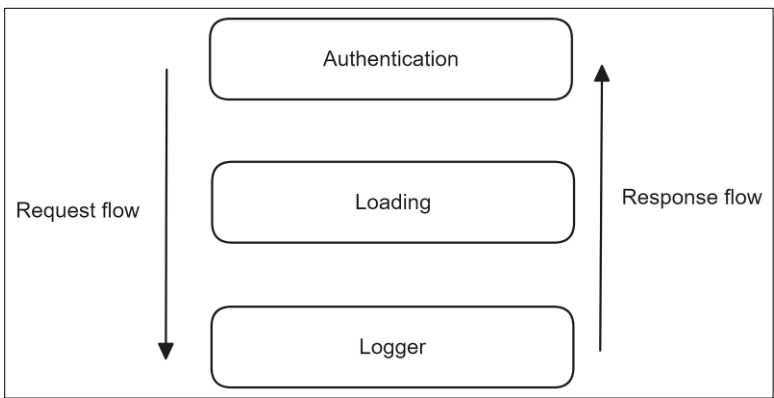
€109.00

Change

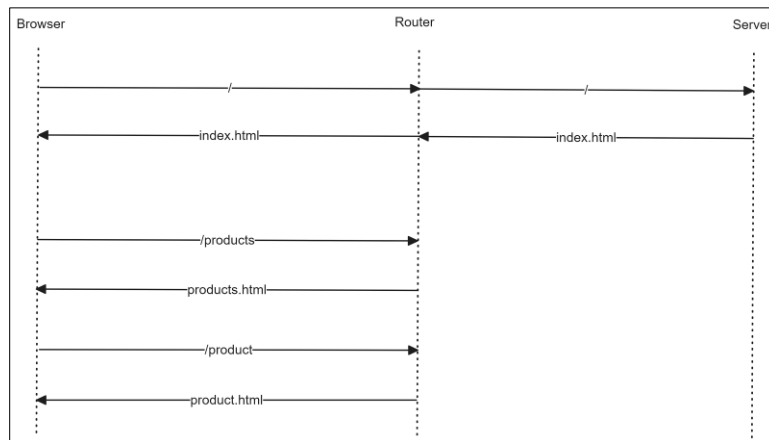
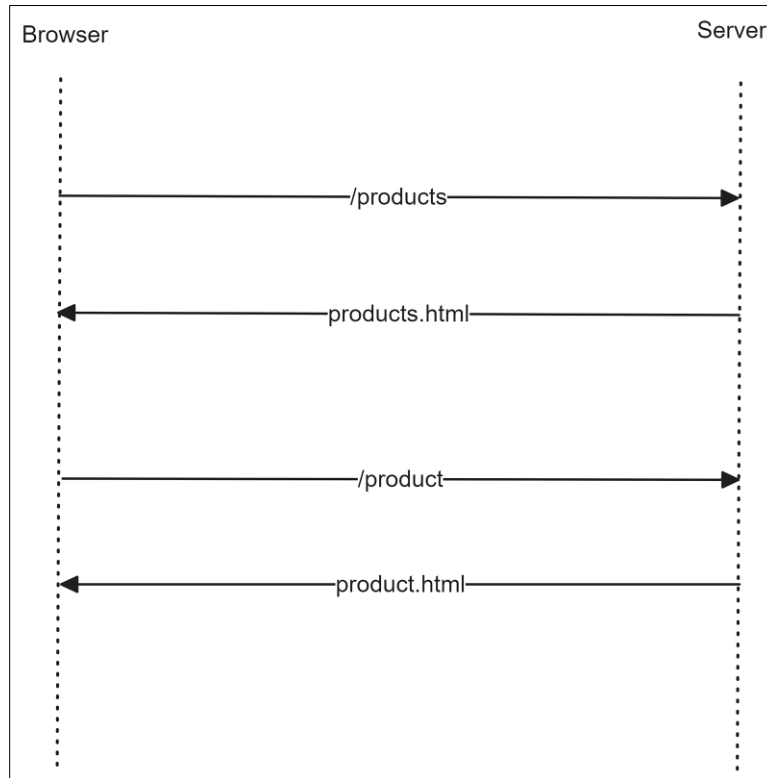
electronics

Add to cart

Delete



Chapter 9: Navigating through Applications with Routing



Products (10)

 Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

 John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

 Mens Casual Premium Slim Fit T-Shirts

 Mens Casual Slim Fit

 Mens Cotton Jacket

 Pierced Owl Rose Gold Plated Stainless Steel Double

 SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s

 Solid Gold Petite Micropave

 WD 2TB Elements Portable External Hard Drive - USB 3.0

 White Gold Plated Princess

Add new product

Title

Price

Category

Select a category 

Create

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€109.00

New price

Change

electronics

Delete

Product list

Product details

- Products (5)
- Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

Mens Casual Premium Slim Fit T-Shirts

Mens Casual Slim Fit

Mens Cotton Jacket

Elements	Console	Sources	Network	>>	⚙️	⋮	×
🔴	🚫	🔍	☐ Preserve log	☐ Disable cache	No throttling	📶	⚙️
⬆️	⬇️						
Filter	☐ Invert	☐ Hide data URLs	☐ Hide extension URLs				
All	Fetch/XHR	Doc	CSS	JS	Font	Img	Media
						Manifest	WS
							Wasm
							Other
☐ Blocked response cookies	☐ Blocked requests	☐ 3rd-party requests					
Name	Status	Type	Initiator	Size	T...	Waterfall	▲
chunk-D3RURZVV.js	304	script	app.routes.ts:26	145 B	3...		

Chapter 10: Collecting User Data with Forms

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€79.00

Add new product

Title

Price

Category

Select a category 

Additional details

Description

Photo URL

Create

SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s

Mens Cotton Jacket

WD 2TB Elements Portable External Hard Drive - USB 3.0

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€0.00

Change

electronics

Delete

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€109.00

Change

Please enter a valid price

electronics

Delete

Add new product

Title

Price

Price must be smaller or equal to 1000

Category

▼

Create

You selected: **SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s**

€109.00

Change

Please enter a valid price

Price must be smaller or equal to 500

electronics

Delete

Chapter 11: Handling Application Errors

```
❌ ▶ Client error app-error-handler.ts:28  
  ▶ HttpErrorResponse {headers: _HttpHeaders, status: 0, statusText: 'Unknown Error', url:  
    'https://fakestoreapi.com/products', ok: false, ...} ⓘ  
    ▶ error: ProgressEvent {isTrusted: true, lengthComputable: false, loaded: 0, total: 0, t  
    ▶ headers: _HttpHeaders {normalizedNames: Map(0), lazyUpdate: null, headers: Map(0)}  
      message: "Http failure response for https://fakestoreapi.com/products: 0 Unknown Error  
      name: "HttpErrorResponse"  
      ok: false  
      status: 0  
      statusText: "Unknown Error"  
      url: "https://fakestoreapi.com/products"  
    ▶ [[Prototype]]: HttpResponseBase
```

Chapter 12: Introduction to Angular Material

Create

Change

Add to cart

Delete



Title*
Price*

New price	
-----------	---

Category	▼
Electronics	
Jewelery	
Other	

electronics

My e-shop

[Products](#)

[My Cart](#)

[My Profile](#)

[Login](#)

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Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops
men's clothing



John Hardy Women's Legends Naga Gold & Silver Dragon
Station Chain Bracelet
jewelery



Mens Casual Premium Slim Fit T-Shirts
men's clothing



Mens Casual Slim Fit
men's clothing



Mens Cotton Jacket
men's clothing



Title	Price
Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops	\$109.95
John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet	\$695.00
Mens Casual Premium Slim Fit T-Shirts	\$22.30
Mens Casual Slim Fit	\$15.99
Mens Cotton Jacket	\$55.99
Pierced Owl Rose Gold Plated Stainless Steel Double	\$10.99
SanDisk SSD PLUS 1TB Internal SSD - SATA III 6 Gb/s	\$109.00
Solid Gold Petite Micropave	\$168.00
WD 2TB Elements Portable External Hard Drive - USB 3.0	\$64.00
White Gold Plated Princess	\$9.99

Products (10)

+

✓

☰

☐

Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

men's clothing



John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

jewelry



Mens Casual Premium Slim Fit T-Shirts

men's clothing



Mens Casual Slim Fit

men's clothing



Mens Cotton Jacket

men's clothing



Cart Checkout

You have pending items in your cart. Do you want to continue?

Yes

No

Cart Checkout

You have 2 pending items in your cart. Do you want to continue?

Yes

No

Products

My Cart

3

My Profile

Logout

Chapter 13: Unit Testing Angular Applications

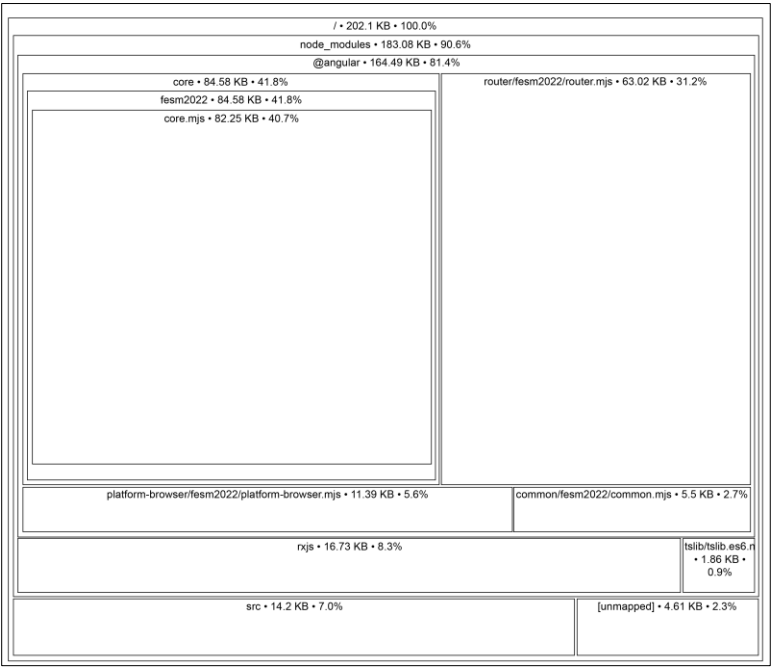
AppComponent

- should render title
- should create the app
- should have the 'my-app' title

```
AppComponent > should have the 'my-app' title
Expected 'my-new-app' to equal 'my-app'.
    at <Jasmine>
    at UserContext.apply (http://localhost:9876/_karma_webpack_/webpack:/src/app/app.component.spec.ts:20:23)
    at _ZoneDelegate.invoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone.js:368:26)
    at ProxyZoneSpec.onInvoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone-testing.js:273:39)
    at _ZoneDelegate.invoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone.js:367:52)

AppComponent > should render title
Expected 'Hello, my-new-app' to contain 'Hello, my-app'.
    at <Jasmine>
    at UserContext.apply (http://localhost:9876/_karma_webpack_/webpack:/src/app/app.component.spec.ts:27:55)
    at _ZoneDelegate.invoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone.js:368:26)
    at ProxyZoneSpec.onInvoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone-testing.js:273:39)
    at _ZoneDelegate.invoke (http://localhost:9876/_karma_webpack_/webpack:/node_modules/zone.js/fesm2015/zone.js:367:52)
```

Chapter 14: Bringing Applications to Production



Chapter 15: Optimizing Application Performance

Elements

Console

Sources

Lighthouse

>>

⚙

⋮

×

+

(new report)

⌵

⦿

⚙



Generate a Lighthouse report

Analyze page load

Mode

[Learn more](#)

☒ Navigation (Default)

☐ Timespan

☐ Snapshot

Device

☒ Mobile

☐ Desktop

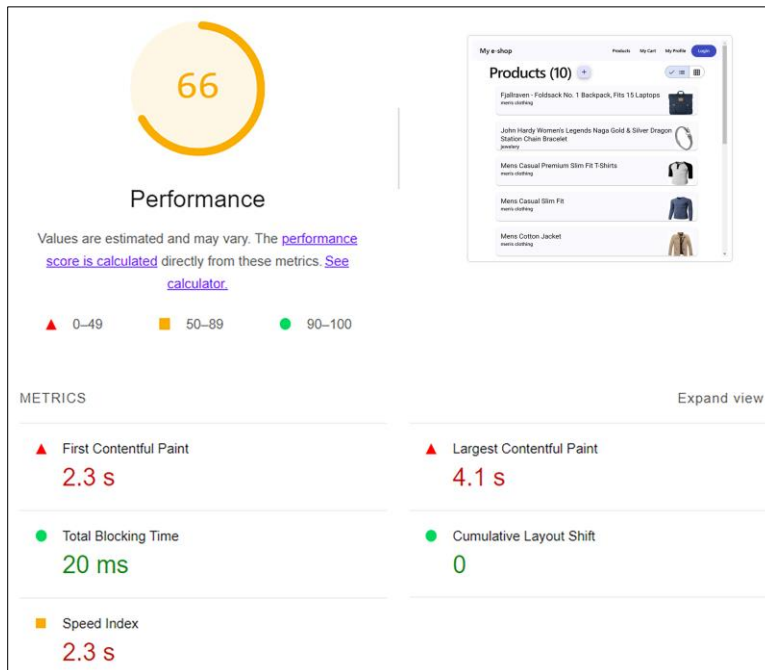
Categories

☒ Performance

☒ Accessibility

☒ Best practices

☒ SEO

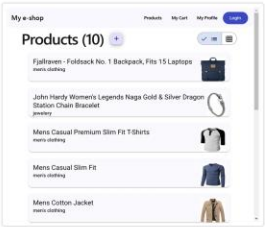




Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

Expand view

■ First Contentful Paint
1.1 s

● Largest Contentful Paint
1.1 s

● Total Blocking Time
20 ms

● Cumulative Layout Shift
0.004

● Speed Index
1.1 s

MEGA DEAL

DANVOUY Womens T Shirt Casual Cotton
Short



Buy now

