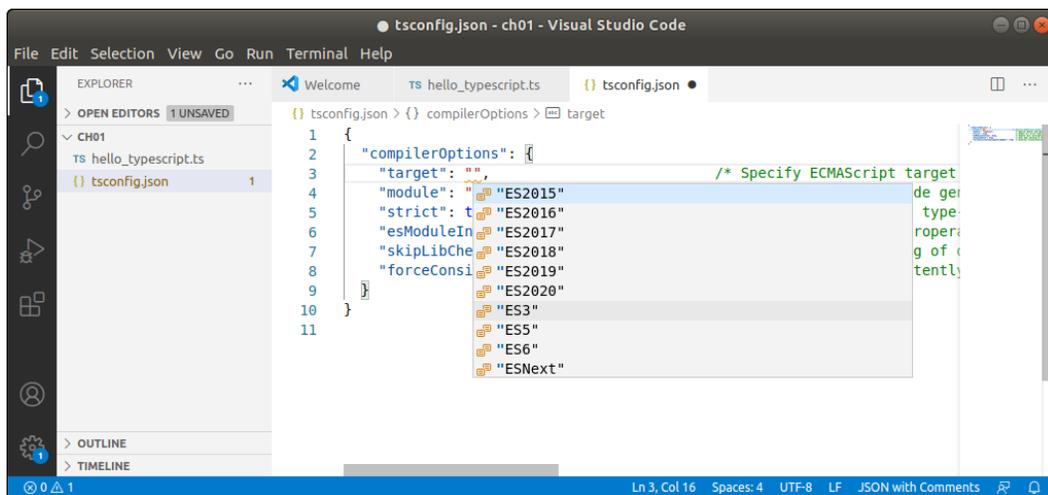
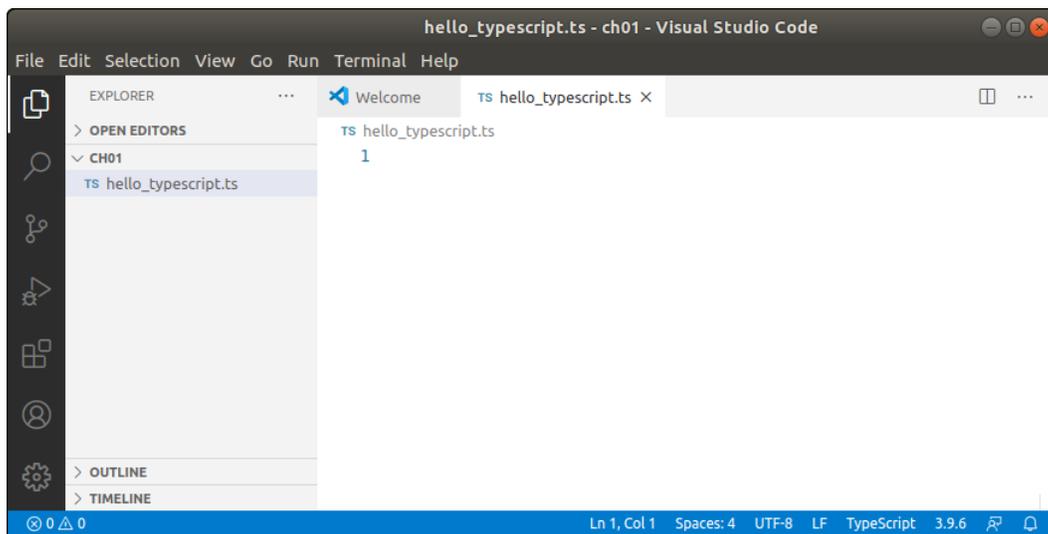
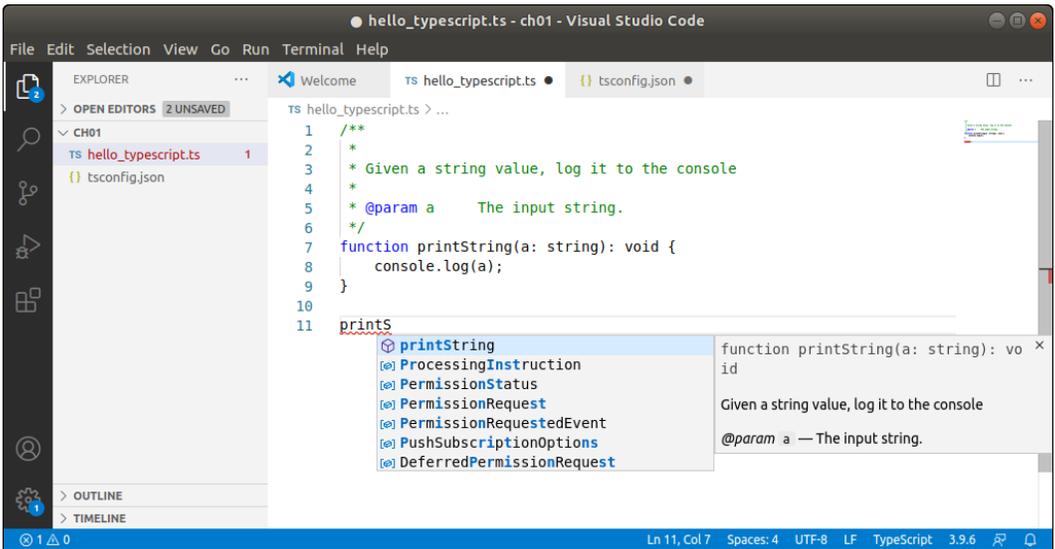
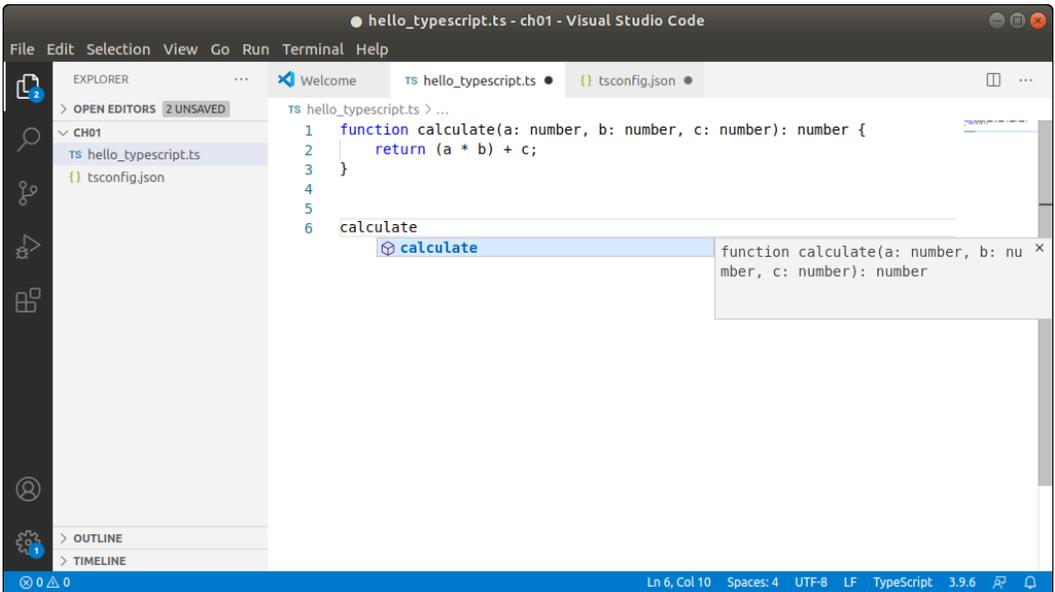
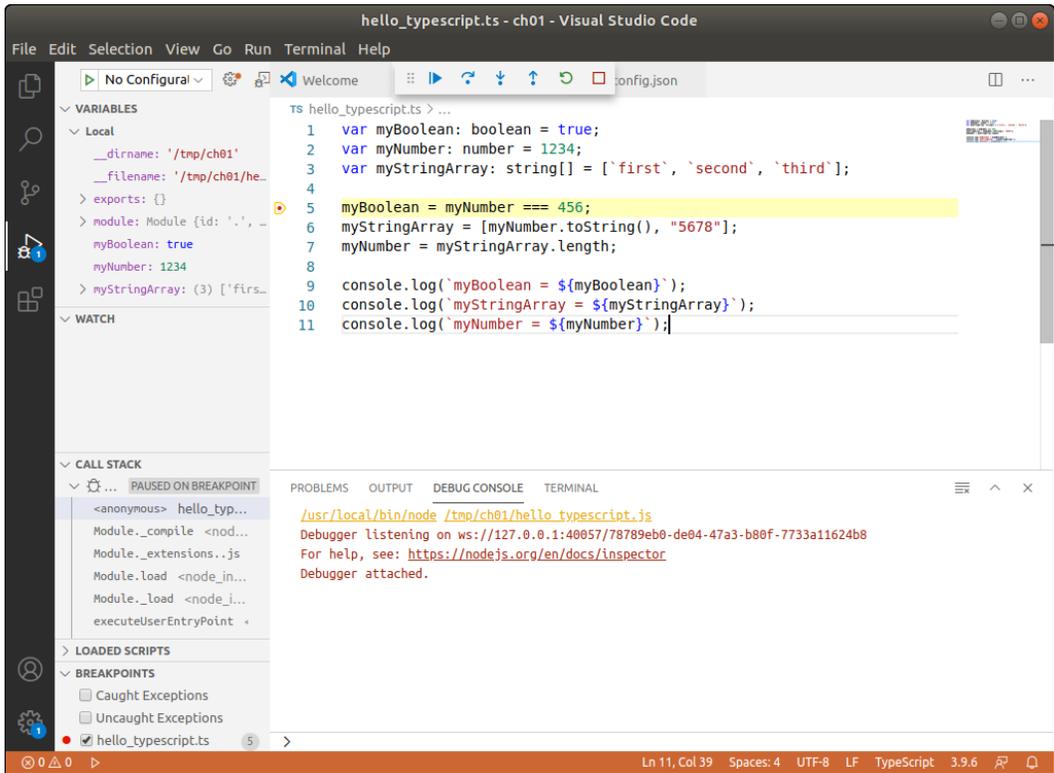


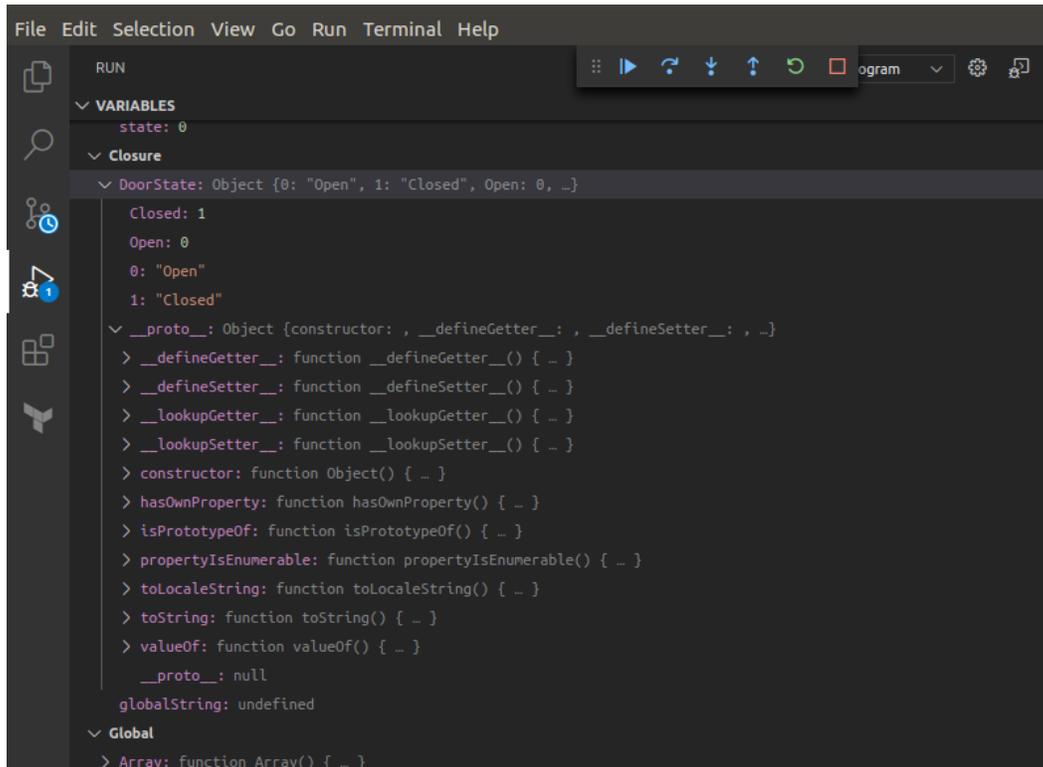
# Chapter 1: Up and Running Quickly







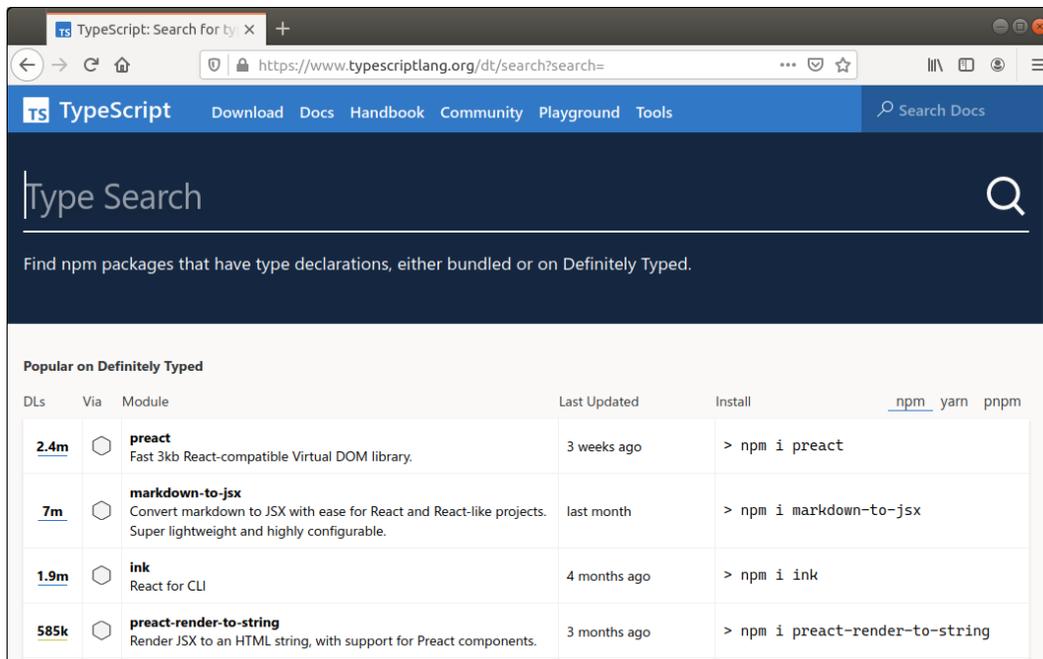
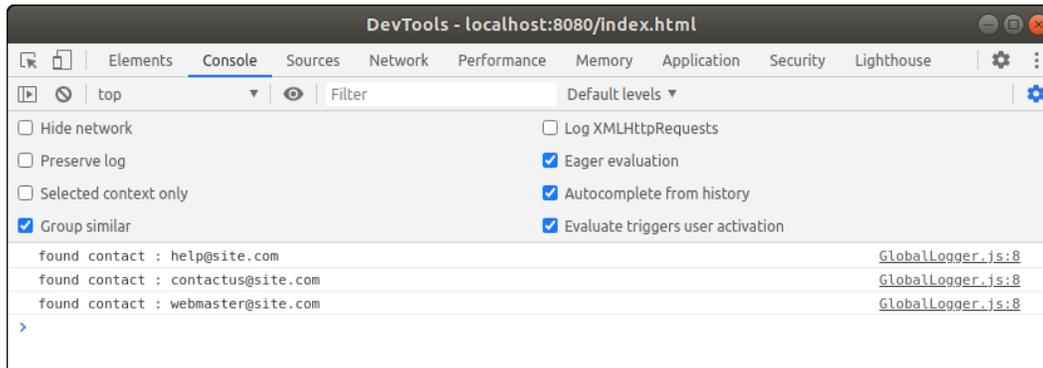
## Chapter 2: Exploring the Type System



The image shows a screenshot of a JavaScript IDE's variable inspector. The interface includes a menu bar (File, Edit, Selection, View, Go, Run, Terminal, Help) and a toolbar with icons for running, stepping through code, and other debugging actions. The main area displays the state of variables during execution.

```
File Edit Selection View Go Run Terminal Help
RUN
VARIABLES
state: 0
Closure
DoorState: Object {0: "Open", 1: "Closed", Open: 0, ...}
  Closed: 1
  Open: 0
  0: "Open"
  1: "Closed"
  __proto__: Object {constructor: , __defineGetter__: , __defineSetter__: , ...}
    > __defineGetter__: function __defineGetter__() { ... }
    > __defineSetter__: function __defineSetter__() { ... }
    > __lookupGetter__: function __lookupGetter__() { ... }
    > __lookupSetter__: function __lookupSetter__() { ... }
    > constructor: function Object() { ... }
    > hasOwnProperty: function hasOwnProperty() { ... }
    > isPrototypeOf: function isPrototypeOf() { ... }
    > propertyIsEnumerable: function propertyIsEnumerable() { ... }
    > toLocaleString: function toLocaleString() { ... }
    > toString: function toString() { ... }
    > valueOf: function valueOf() { ... }
    __proto__: null
  globalString: undefined
Global
  > Array: function Array() { ... }
```

## Chapter 7: Integration with JavaScript



## Chapter 10: Test-Driven Development

```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
nathanr@nero260: /tmp/jest$ npm test
> src@1.0.0 test /tmp/jest
> jest --verbose
FAIL ./hello_jest.spec.ts
  ✕ should be false (2 ms)

  ● should be false

    expect(received).toBeTruthy()

    Received: false

       1 | test('should be false', () => {
     >  2 |   expect(false).toBeTruthy();
         |               ^
       3 | });
       4 |
       5 | // describe("a group of tests", () => {
         |
         at Object.<anonymous> (hello_jest.spec.ts:2:19)

Test Suites: 1 failed, 1 total
Tests:      1 failed, 1 total
Snapshots:  0 total
Time:       0.64 s, estimated 1 s
Ran all test suites.
npm ERR! Test failed.  See above for more details.
nathanr@nero260: /tmp/jest$
```

```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
nathanr@nero260: /tmp/jest$ npm test
> src@1.0.0 test /tmp/jest
> jest --verbose
PASS ./hello_jest.spec.ts
  ✓ should be false (1 ms)

Test Suites: 1 passed, 1 total
Tests:      1 passed, 1 total
Snapshots:  0 total
Time:       0.658 s, estimated 2 s
Ran all test suites.
nathanr@nero260: /tmp/jest$
```

```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
PASS ./hello_jest.spec.ts
  ✓ should be false (1 ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:  0 total
Time:        0.616 s, estimated 1 s
Ran all test suites.

Watch Usage
  > Press f to run only failed tests.
  > Press o to only run tests related to changed files.
  > Press p to filter by a filename regex pattern.
  > Press t to filter by a test name regex pattern.
  > Press q to quit watch mode.
  > Press Enter to trigger a test run.
```

```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
PASS ./hello_jest.spec.ts
  ✓ should be false (1 ms)
  a group of tests
    ✓ first test
    ✓ second test

Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:  0 total
Time:        0.235 s, estimated 1 s
Ran all test suites.

Watch Usage: Press w to show more.
```

```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
PASS ./hello_jest.spec.ts
  ○ skipped should be false
  a group of tests
    ✓ first test
    ✓ second test (1 ms)

Test Suites: 1 passed, 1 total
Tests:       1 skipped, 2 passed, 3 total
Snapshots:  0 total
Time:        1.406 s
Ran all test suites.

Watch Usage: Press w to show more.
```

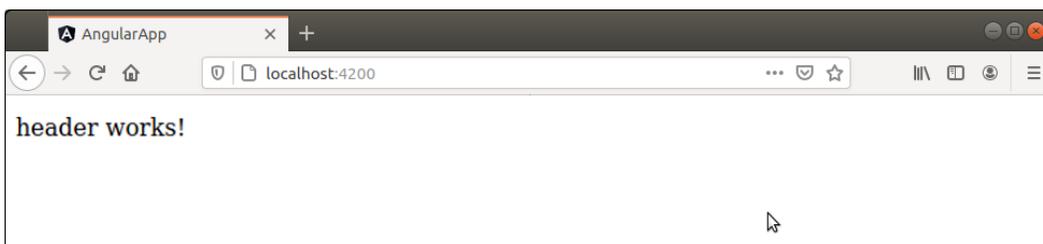
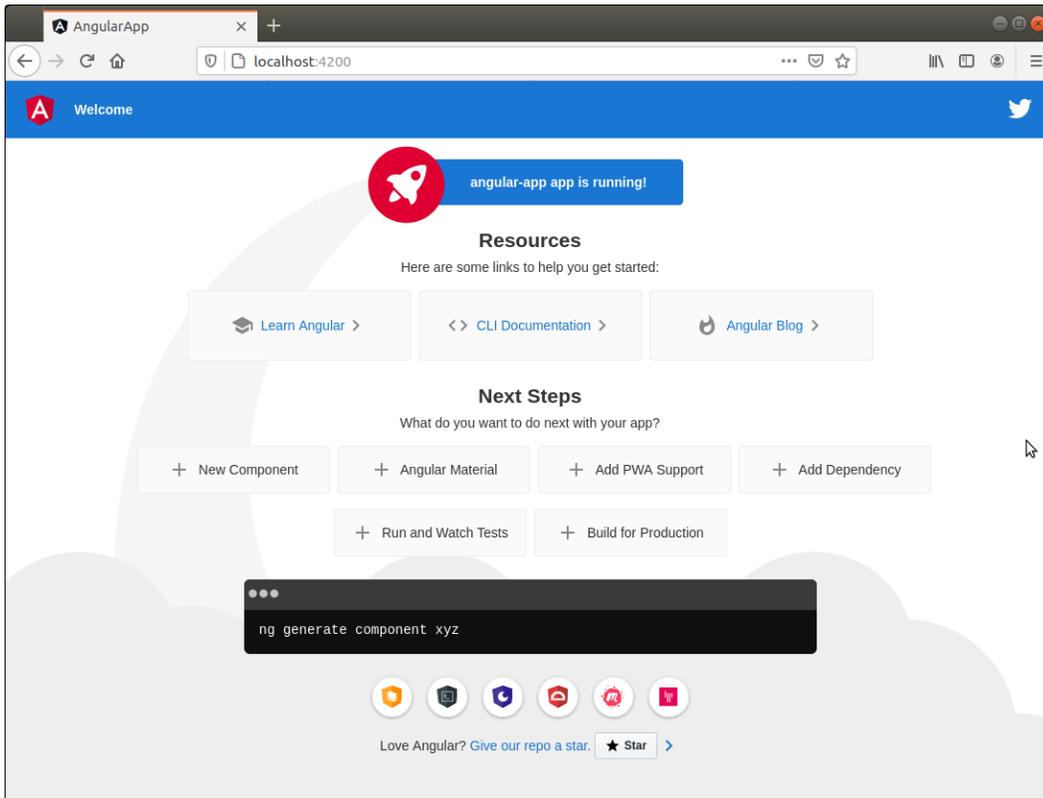
```
nathanr@nero260: /tmp/jest
File Edit View Search Terminal Help
PASS ./hello_jest.spec.ts
  ○ skipped should be false
  a group of tests
    ✓ first test (1 ms)
    ○ skipped second test

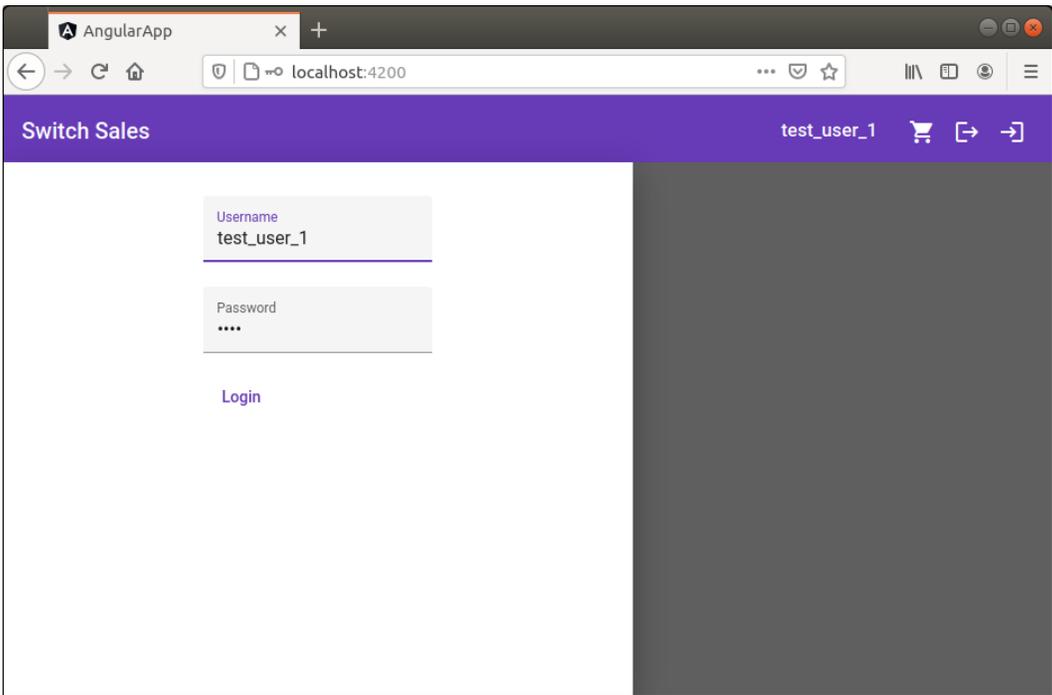
Test Suites: 1 passed, 1 total
Tests:       2 skipped, 1 passed, 3 total
Snapshots:  0 total
Time:        2.111 s
Ran all test suites.

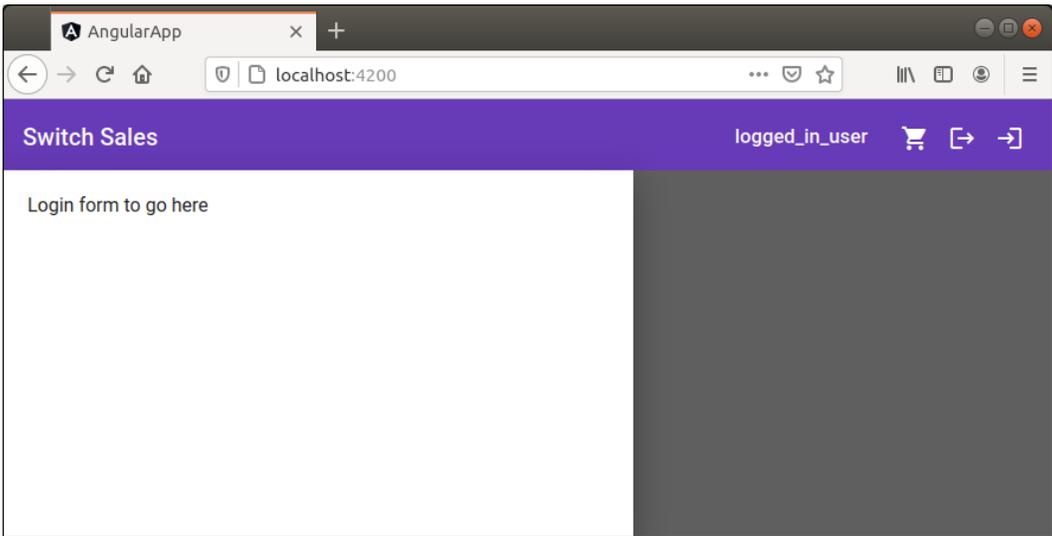
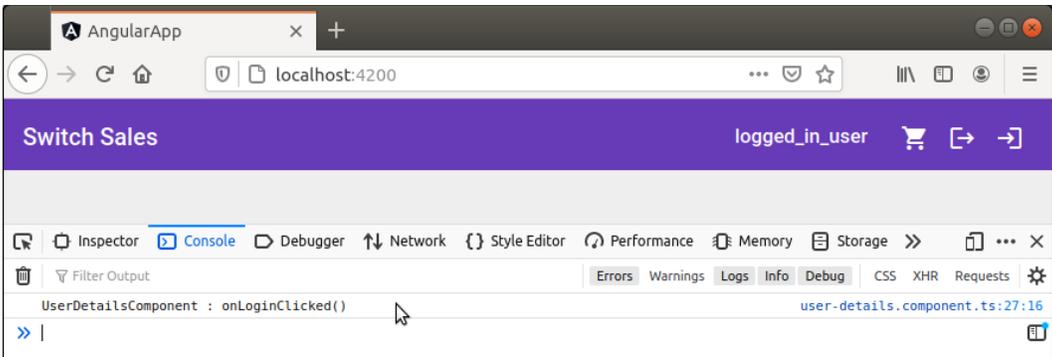
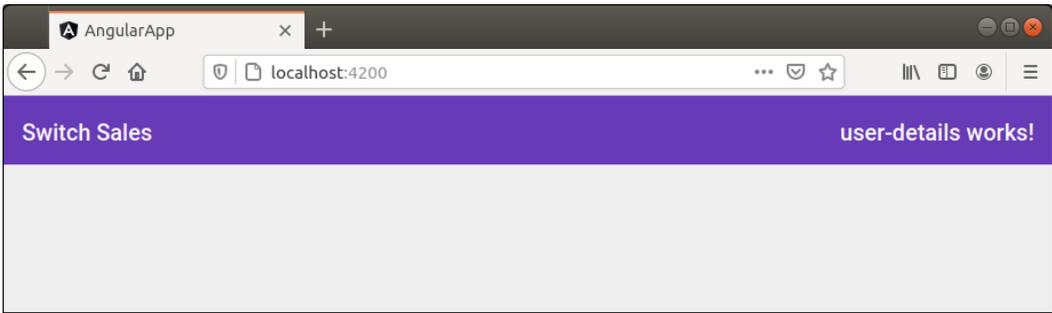
Watch Usage: Press w to show more.█
```



# Chapter 11: Angular



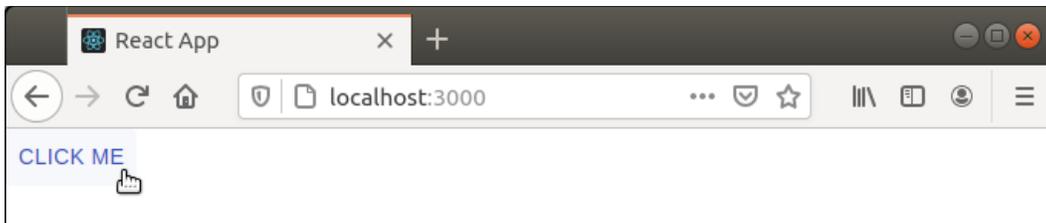
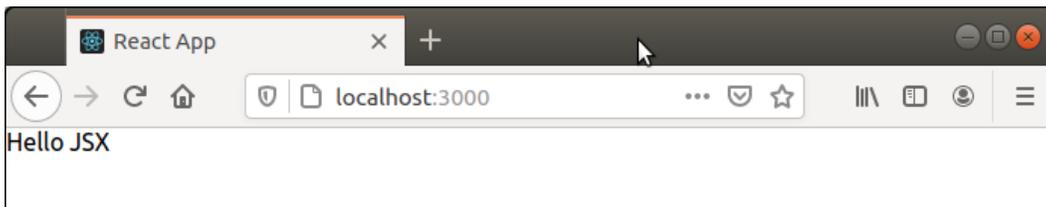
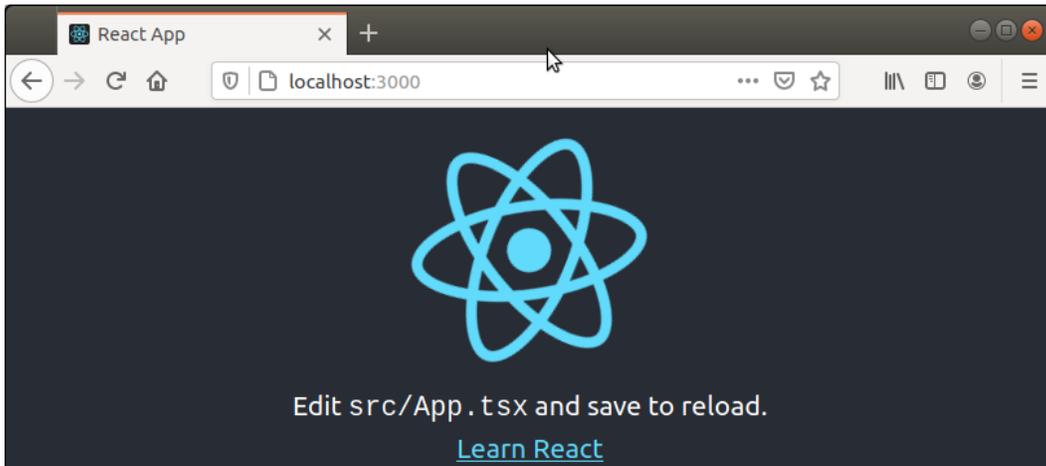


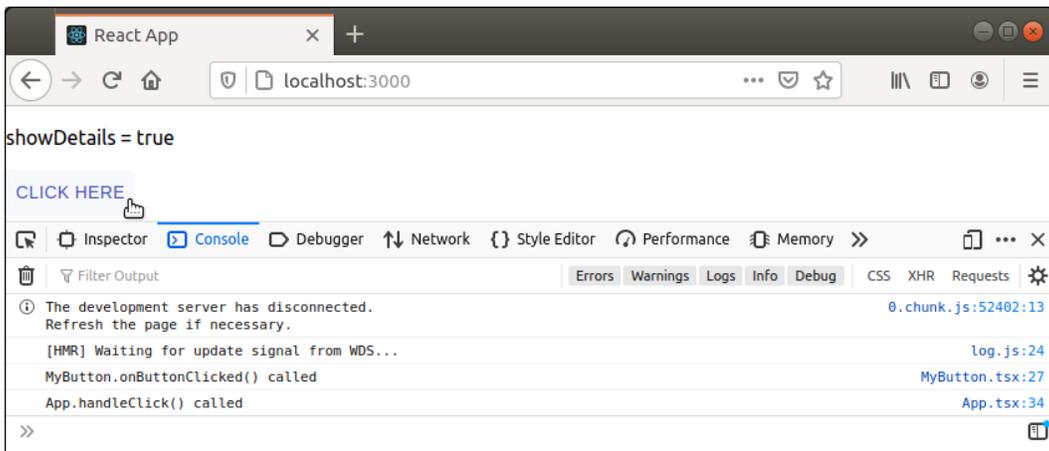
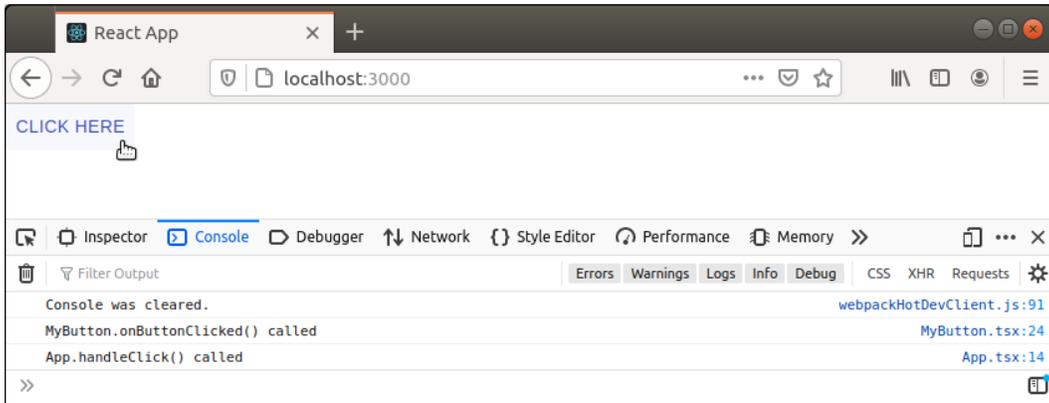


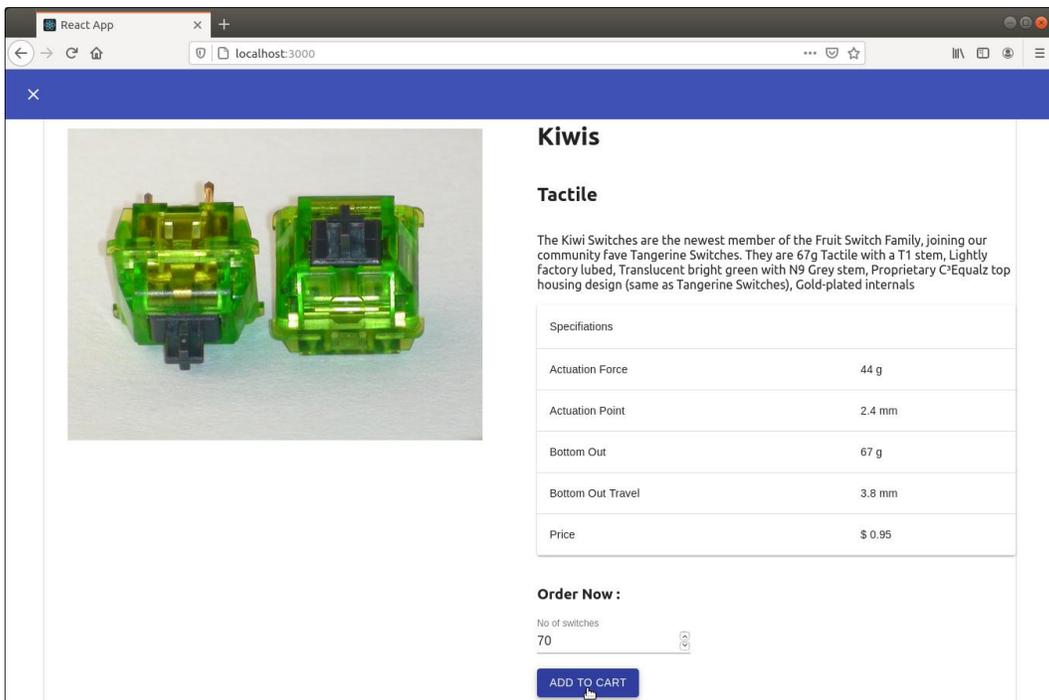
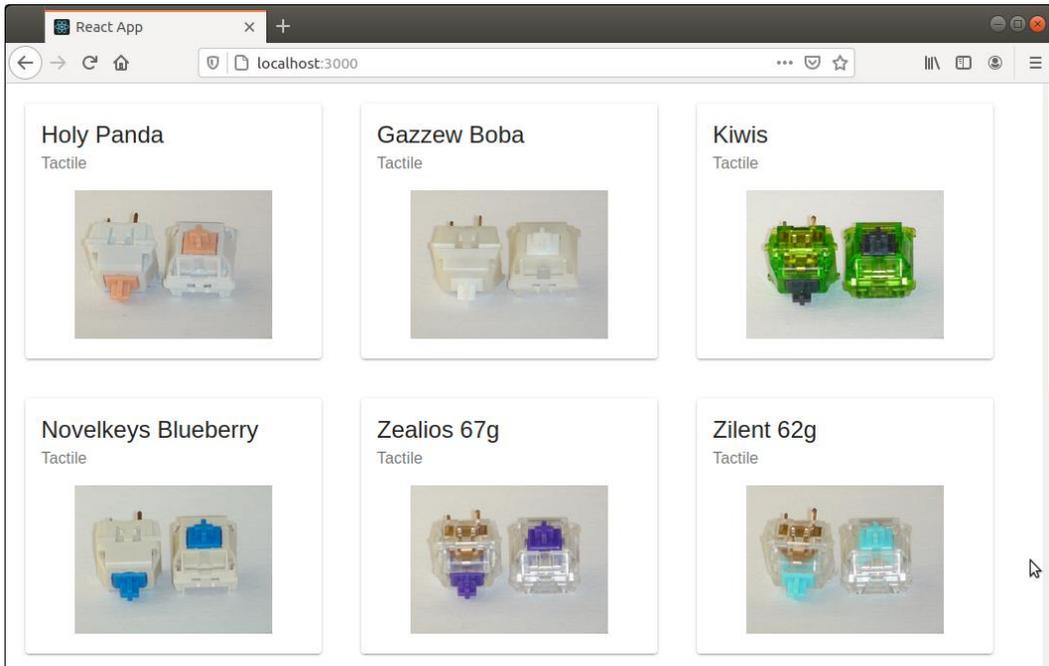
The image shows a web browser window with the following elements:

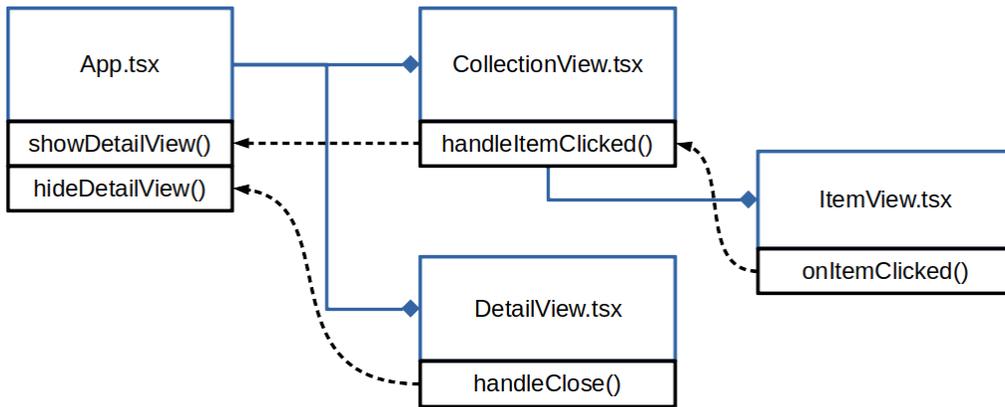
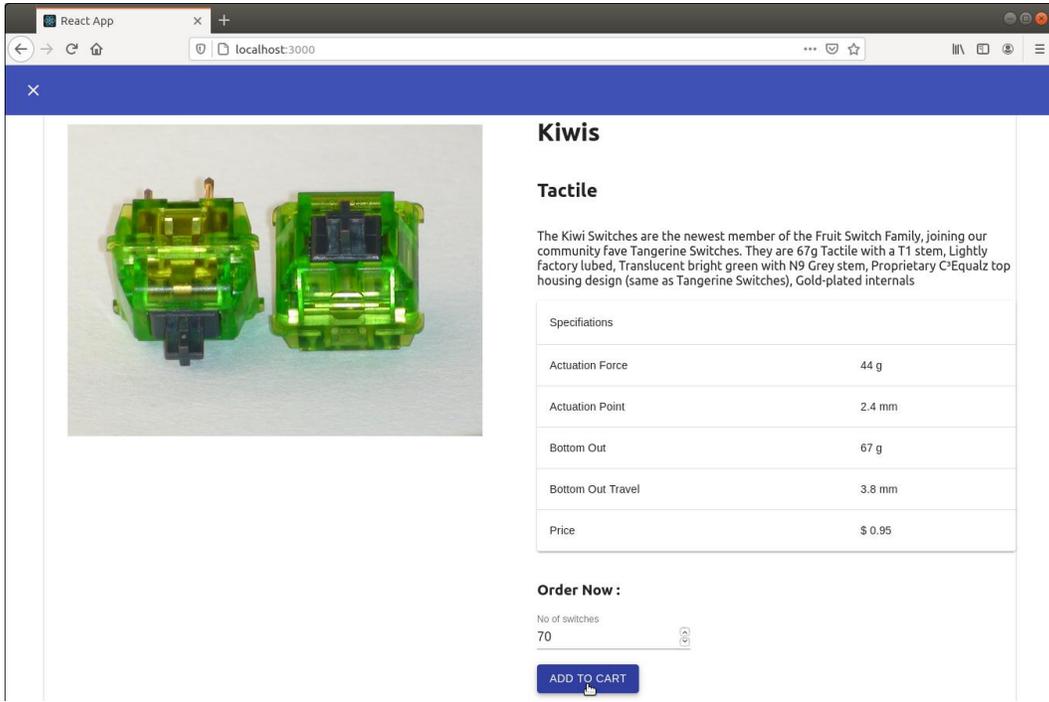
- Browser Tab:** AngularApp
- Address Bar:** localhost:4200
- Page Header:** Switch Sales (left), logged\_in\_user (right), with navigation icons.
- Form:** A login form with two input fields:
  - Username:** test\_user\_1
  - Password:** masked with dots (testpwd)A **Login** button is located below the password field.
- Console:** The console is open, showing two log messages:
  - onSubmit: username : test\_user\_1 (login.component.ts:50:16)
  - onSubmit: password : testpwd (login.component.ts:51:16)

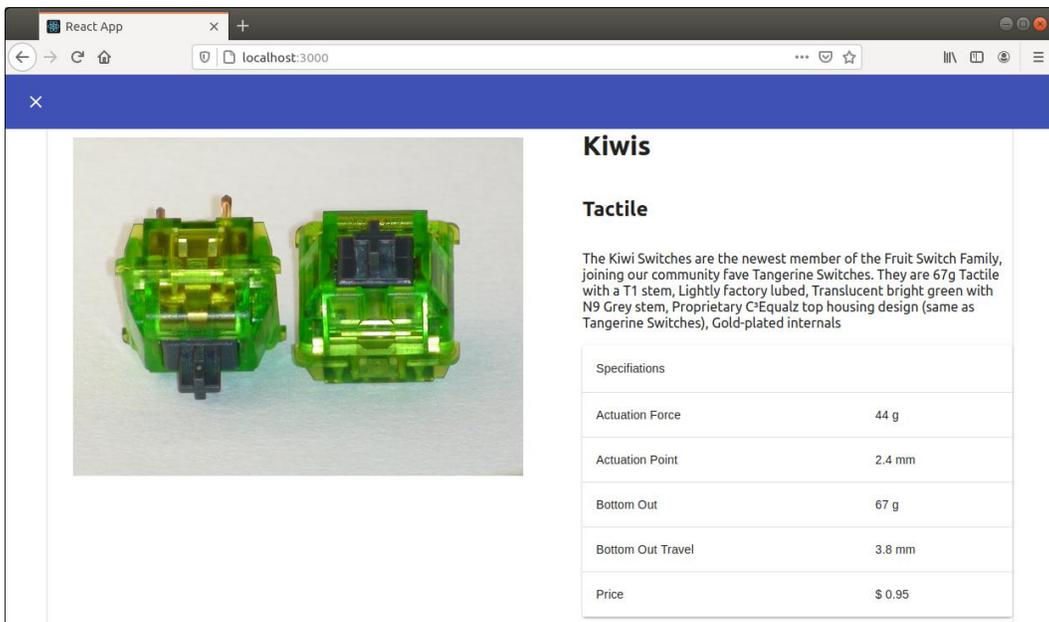
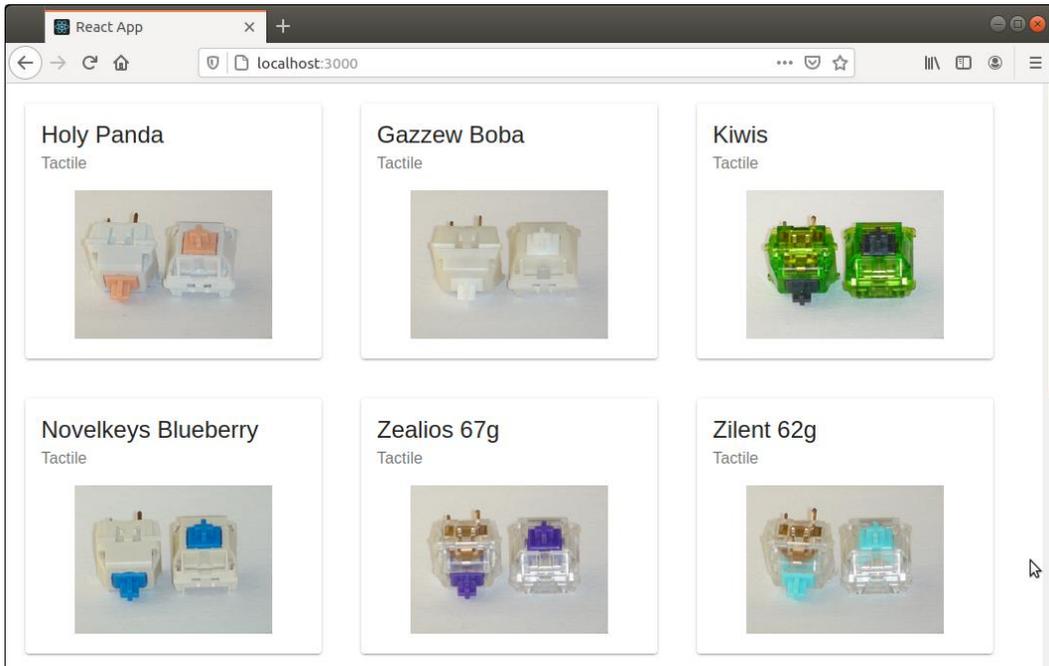
## Chapter 12: React











React App localhost:3000



## Zilent 67g

### Tactile

"Crisp & responsive" tactile bump feeling at the very top with more cushion during bottom out than 65g Zilent V2

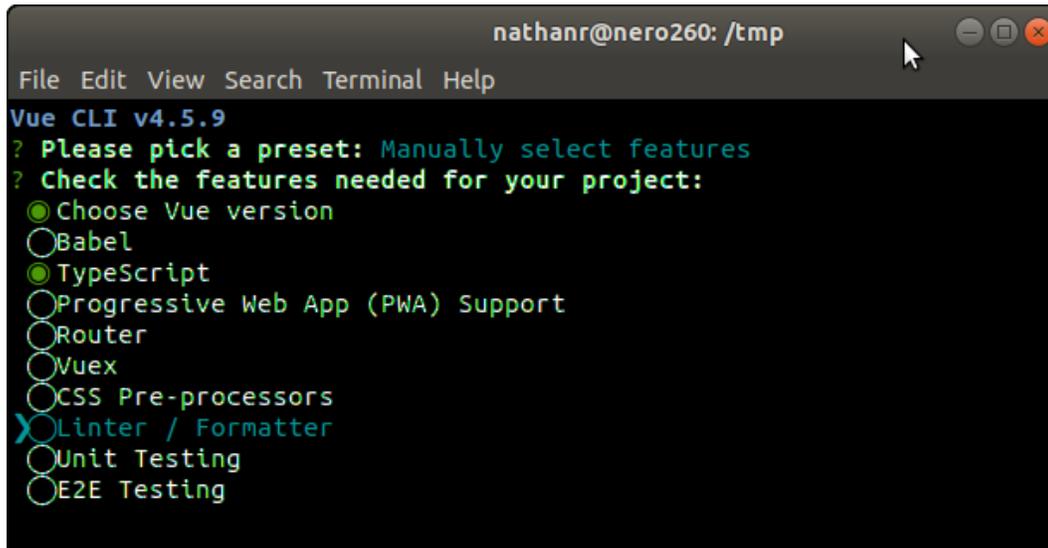
Specifications	
Actuation Force	30 g
Actuation Point	2.4 mm
Bottom Out	67 g
Bottom Out Travel	4 mm
Price	\$ 1.80

**Order Now :**

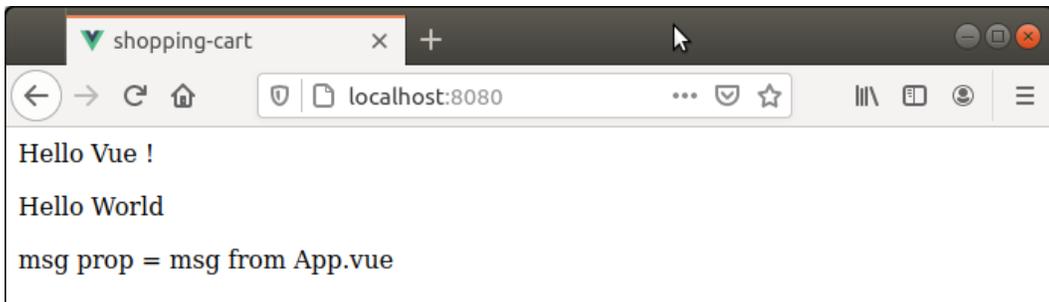
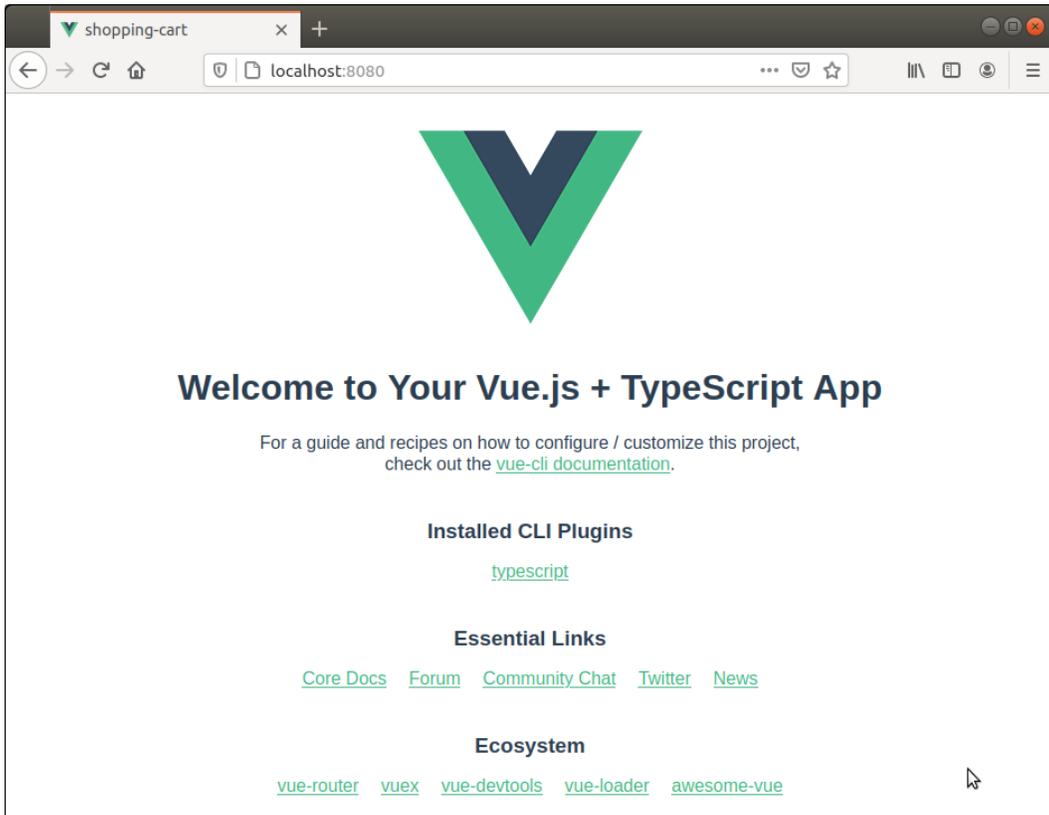
No of switches  
70

[ADD TO CART](#)

## Chapter 13: Vue



```
nathanr@nero260: /tmp
File Edit View Search Terminal Help
Vue CLI v4.5.9
? Please pick a preset: Manually select features
? Check the features needed for your project:
   Choose Vue version
   Babel
   TypeScript
   Progressive Web App (PWA) Support
   Router
   Vuex
   CSS Pre-processors
   Linter / Formatter
   Unit Testing
   E2E Testing
```



shopping-cart x +

localhost:8080

Hello Vue !  
Hello World  
msg prop = test

this has been updated

Inspector Console Debugger

Filter Output

Errors Warnings Logs Info Debug CSS XHR Requests

```
[HMR] Waiting for update signal from WDS... log.js:24  
this.myText = this has been updated HelloWorld.vue:20
```

shopping-cart x +

localhost:8080

Hello Vue !  
Hello World  
msg prop = update value from HelloWorld

update value from HelloWorld

Inspector Console Debugger

Filter Output

Errors Warnings Logs Info Debug CSS XHR Requests

```
[HMR] Waiting for update signal from WDS... log.js:24  
this.myText = update value from HelloWorld HelloWorld.vue:19  
App:onAppSubmitClicked() : update value from HelloWorld App.vue:18
```

shopping-cart x +

localhost:8080

Hello Vue !  
Hello World  
msg prop = test

this is a sentence

text length is : 18

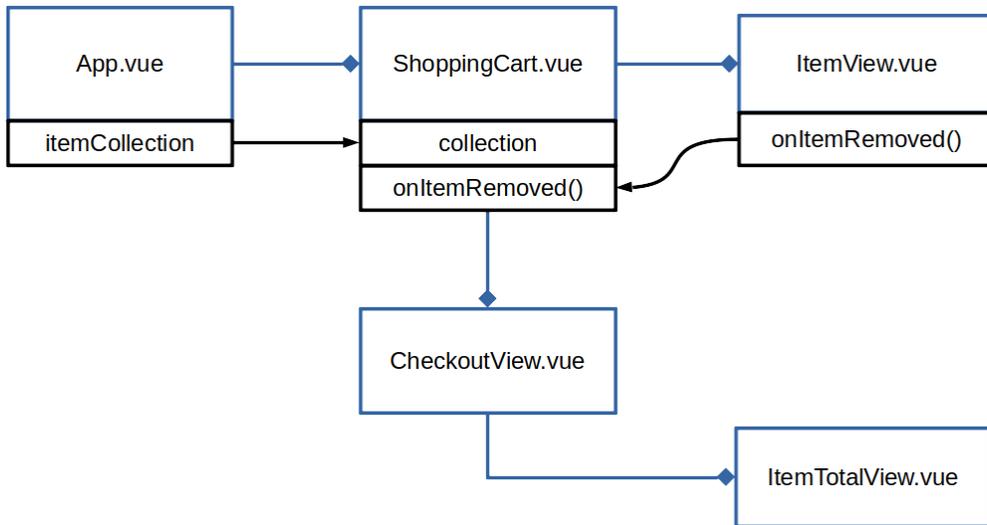
- words are :
- this
- is
- a
- sentence

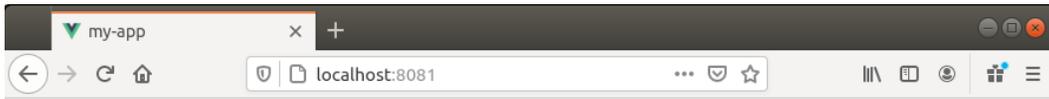
Inspector Console Debugger

Filter Output

Errors Warnings Logs Info Debug CSS XHR Requests

```
[HMR] Waiting for update signal from WDS... log.js:24
```





## Shopping Cart

---

Item #1 - Holy Panda ( tactile )



No of switches  
70

DELETE

Item #3 - Kiwis ( tactile )



No of switches  
70

DELETE

Item #7 - Zilent 67g ( tactile )



No of switches  
110

DELETE

CHECKOUT

my-app x +

localhost:8081

## Check Out

Item ID	Name	Type	Amount	Price	Total
1	Holy Panda	tactile	70	1.60	112.00
3	Kiwis	tactile	70	0.95	66.50
7	Zilent 67g	tactile	110	1.80	198.00
Cart Total					376.50
Tax					37.65
Shipping					7.00
Invoice Total					421.15

[BACK](#) [PLACE ORDER](#)

shopping-cart x +

localhost:8080

## Shopping Cart

Item #1 - Holy Panda ( tactile )



0 of switches

[DELETE](#)

[CHECKOUT](#)

shopping-cart localhost:8080

## Shopping Cart

Item #1 - Holy Panda ( tactile )



No of switches  
70

DELETE

CHECKOUT

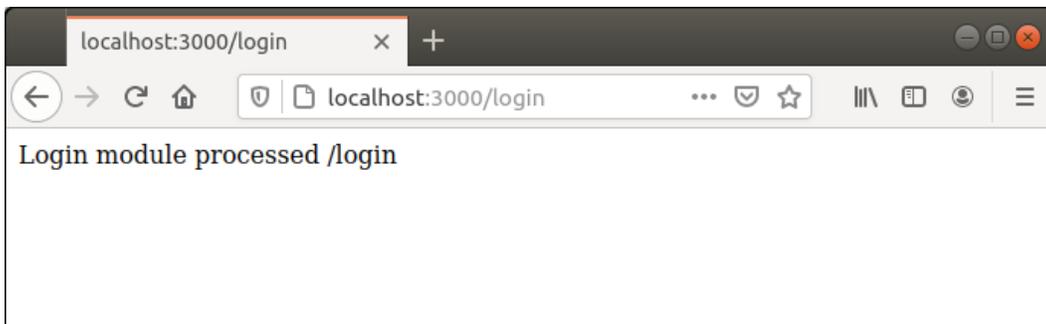
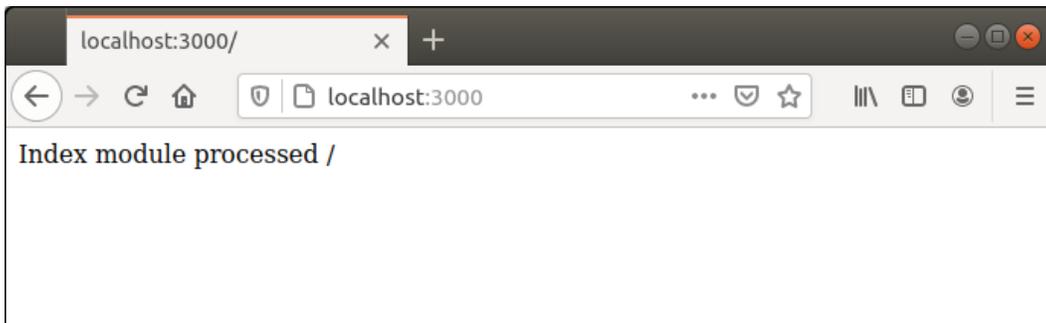
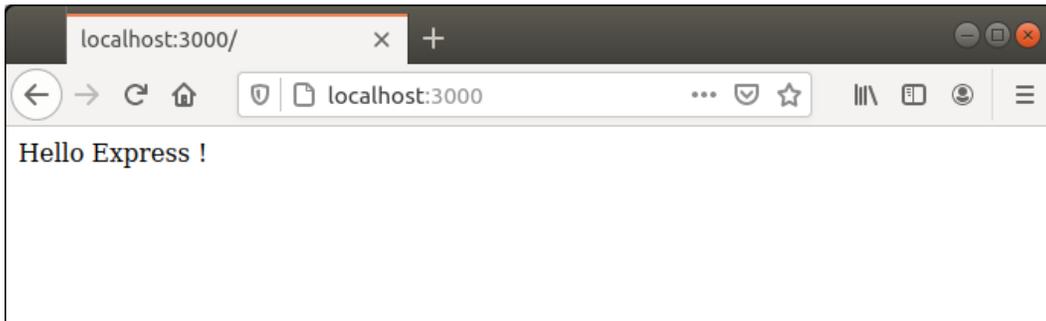
shopping-cart localhost:8080

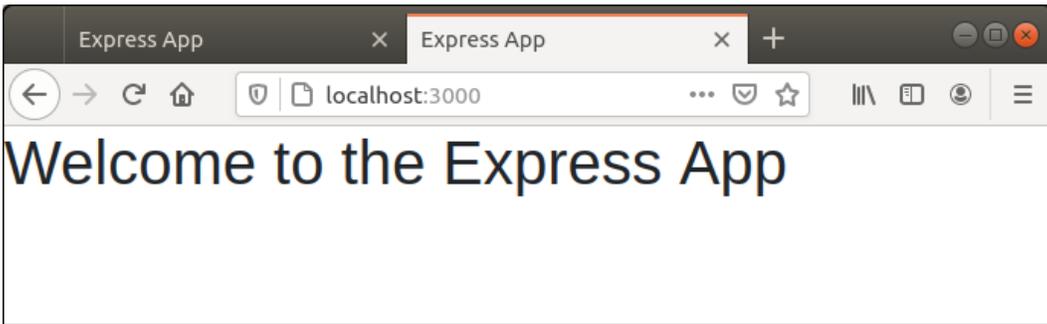
## Check Out

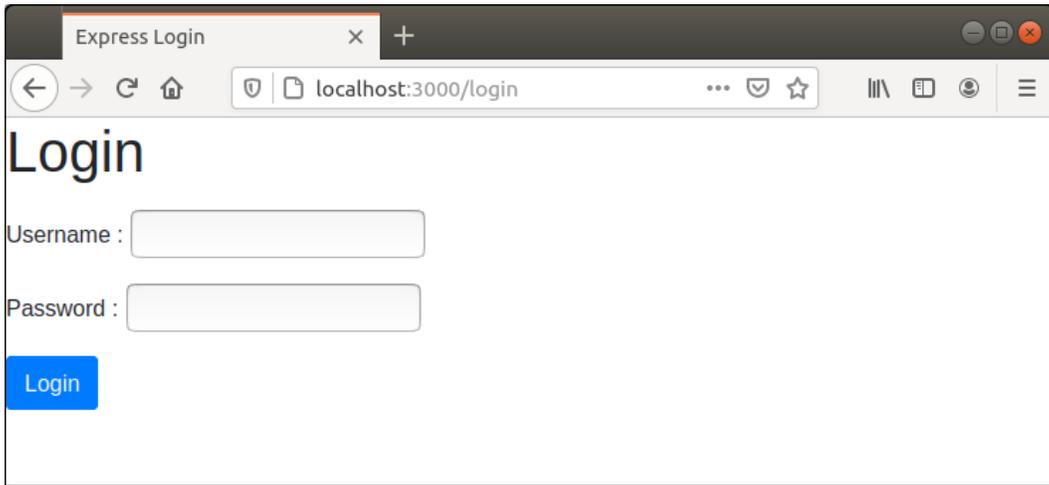
Item ID	Name	Type	Amount	Price	Total
1	Holy Panda	tactile	70	1.60	112.00
3	Kiwis	tactile	70	0.95	66.50
7	Zilent 67g	tactile	110	1.80	198.00
<b>Cart Total</b>					<b>376.50</b>
<b>Tax</b>					<b>37.65</b>
<b>Shipping</b>					<b>7.00</b>
<b>Invoice Total</b>					<b>421.15</b>

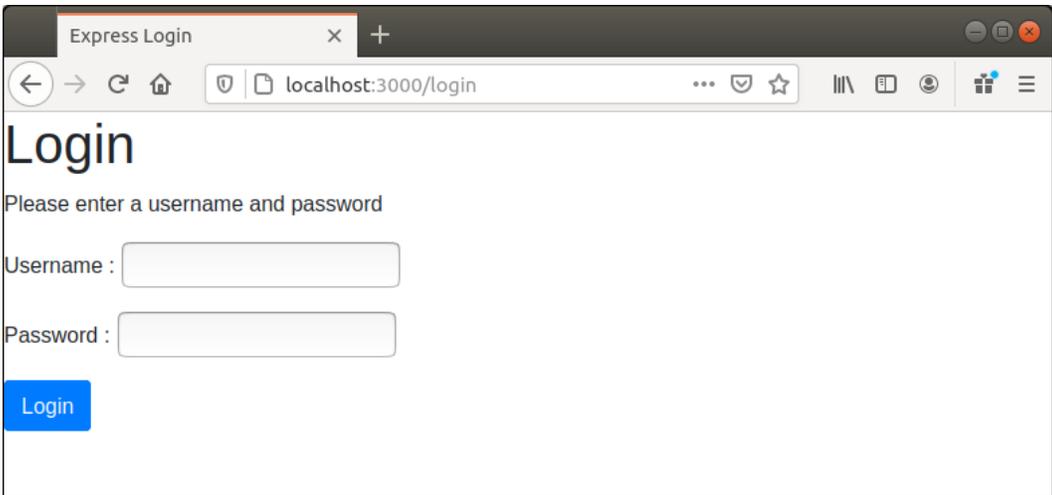
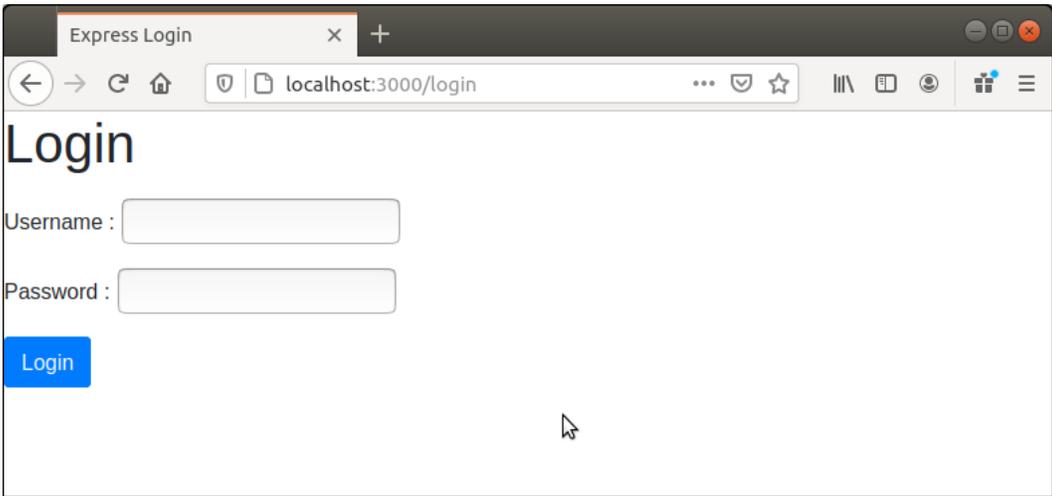
BACK PLACE ORDER

## Chapter 14: Node and Express



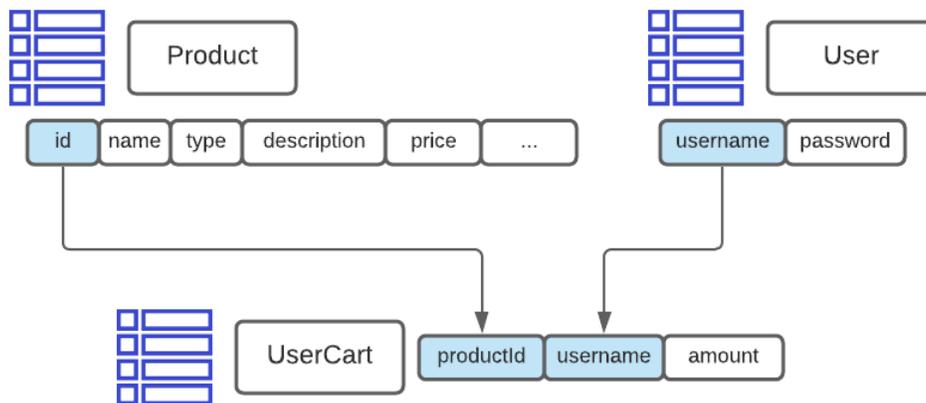
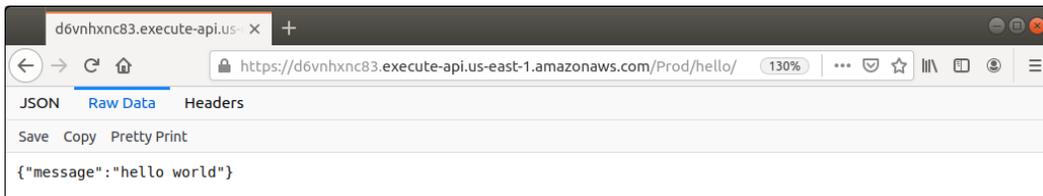
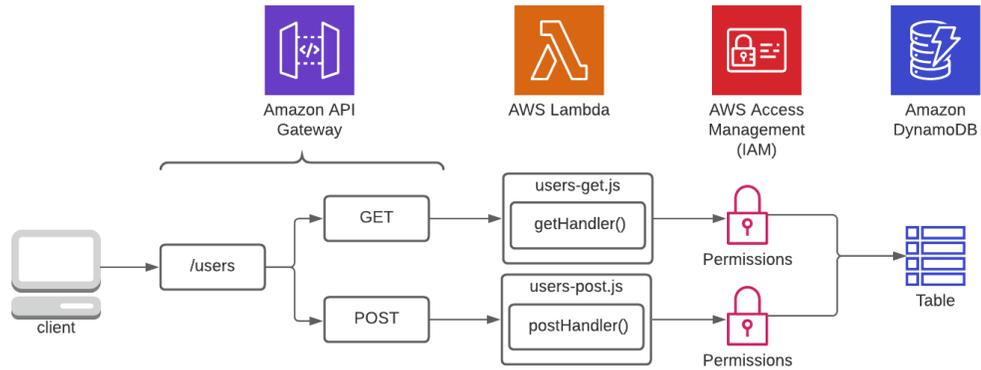


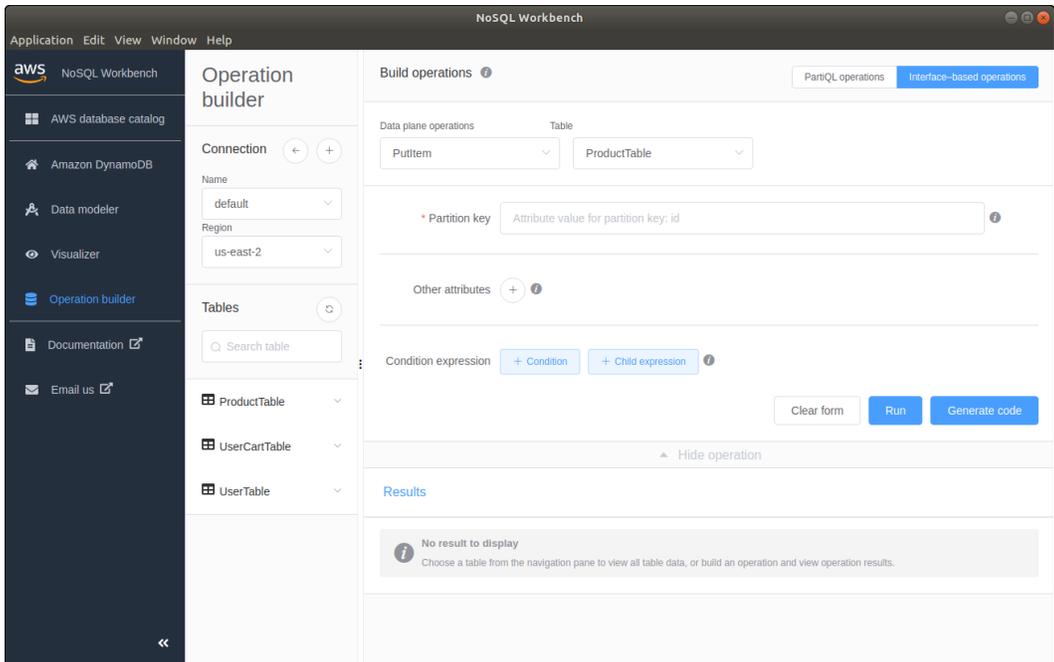
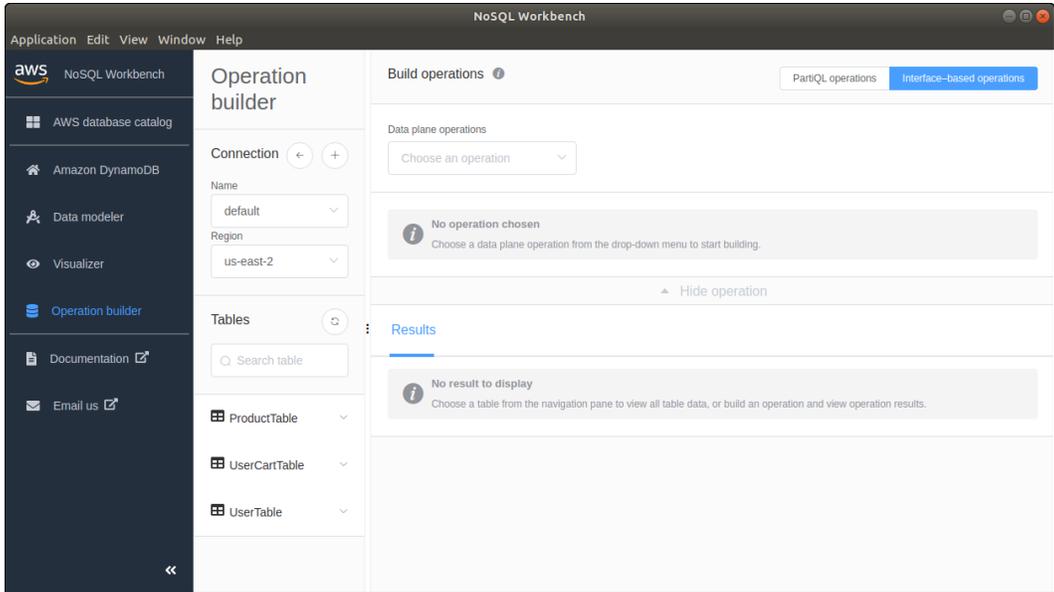


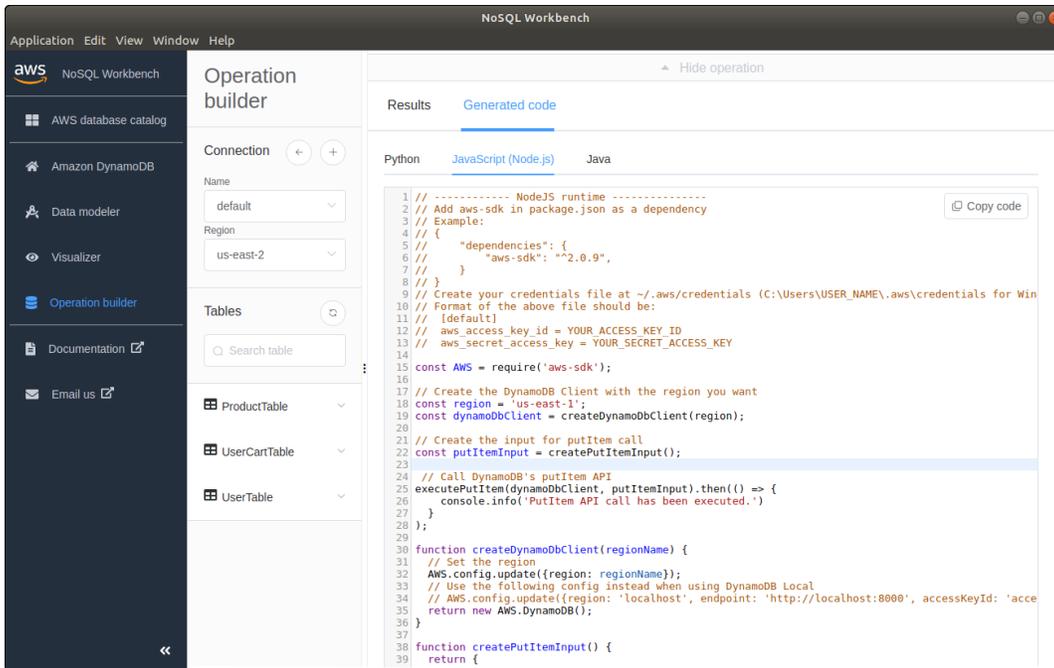
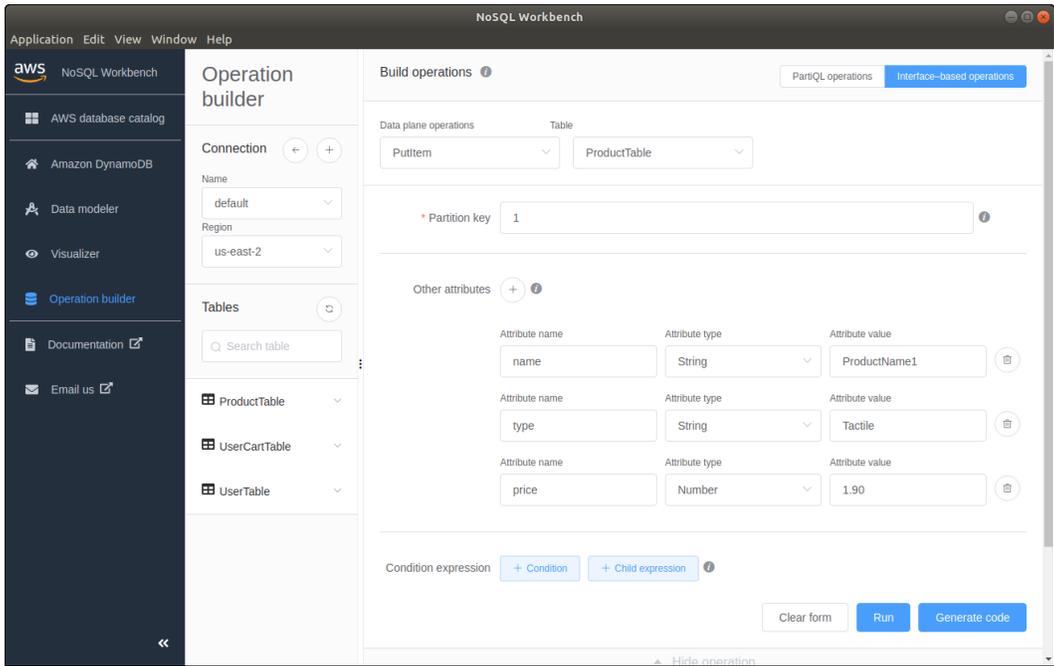


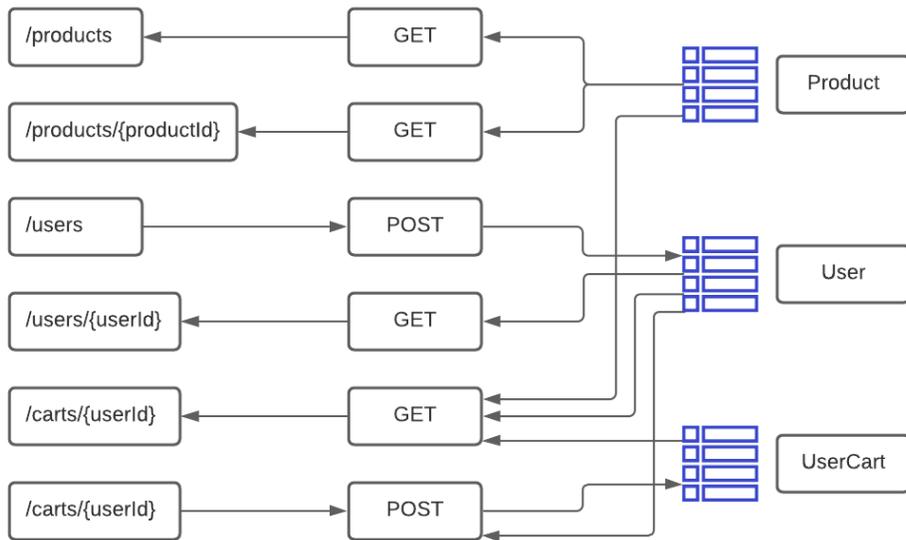
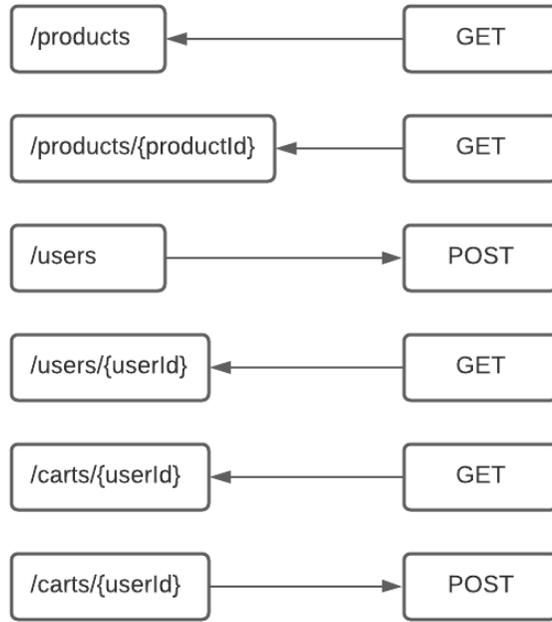


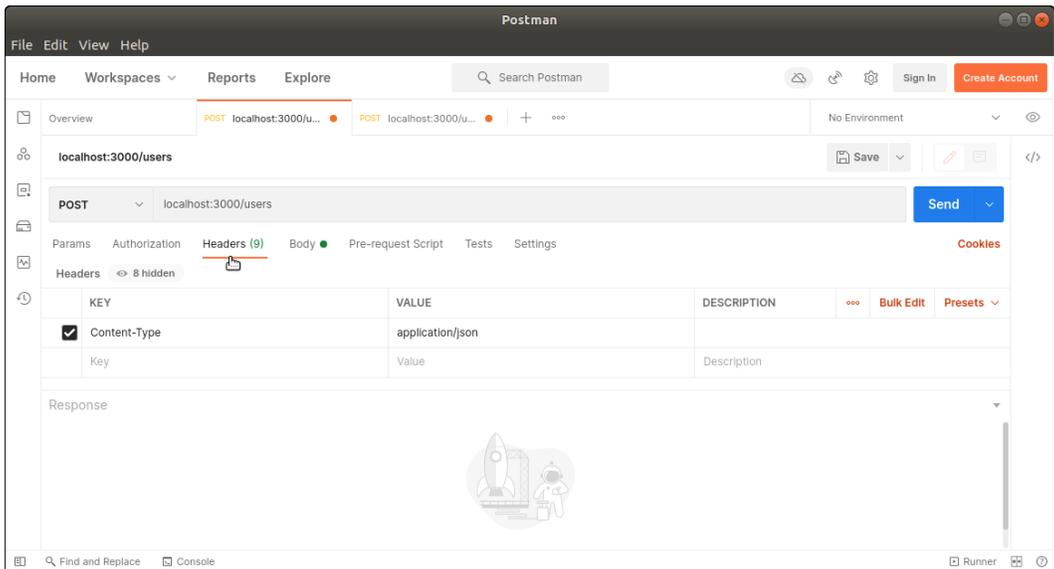
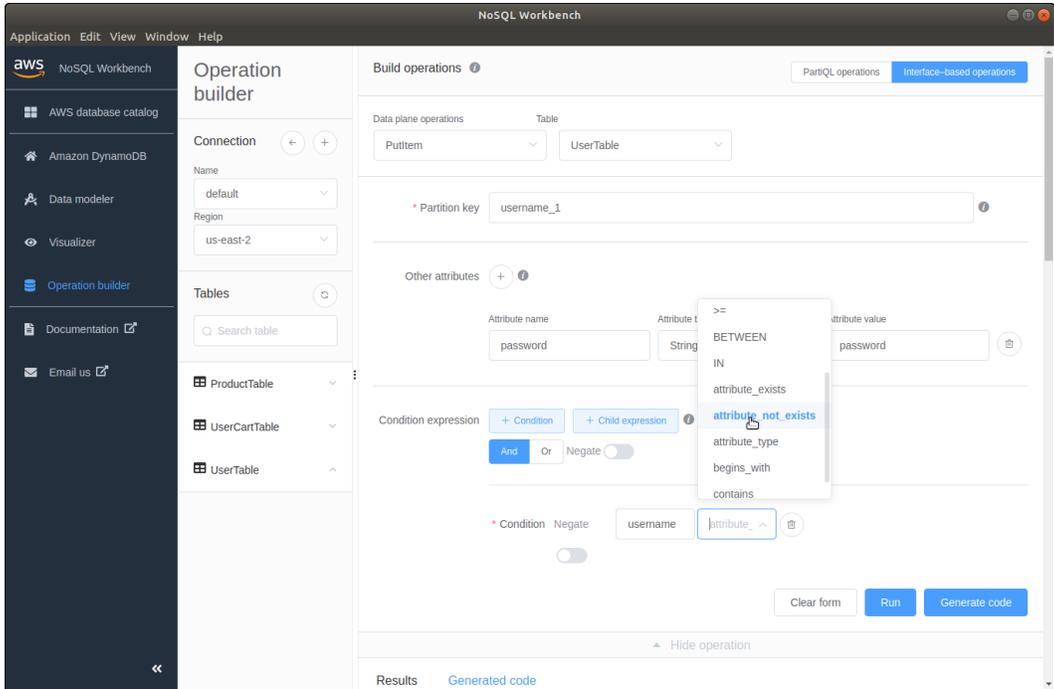
# Chapter 15: An AWS Serverless API

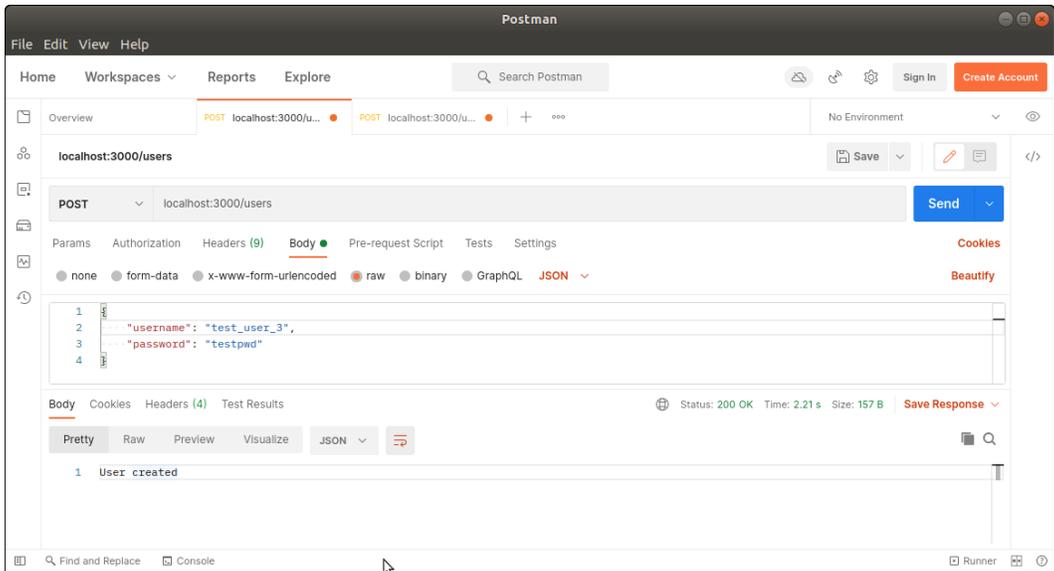
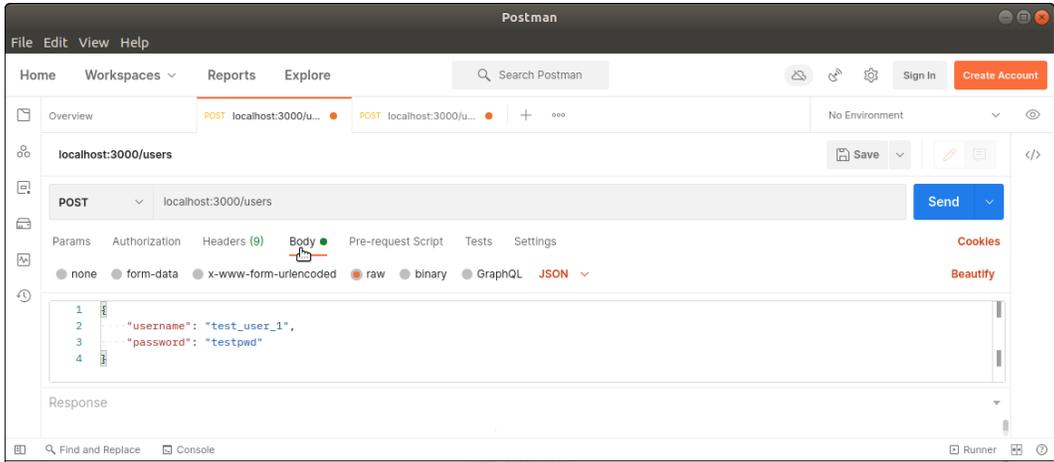


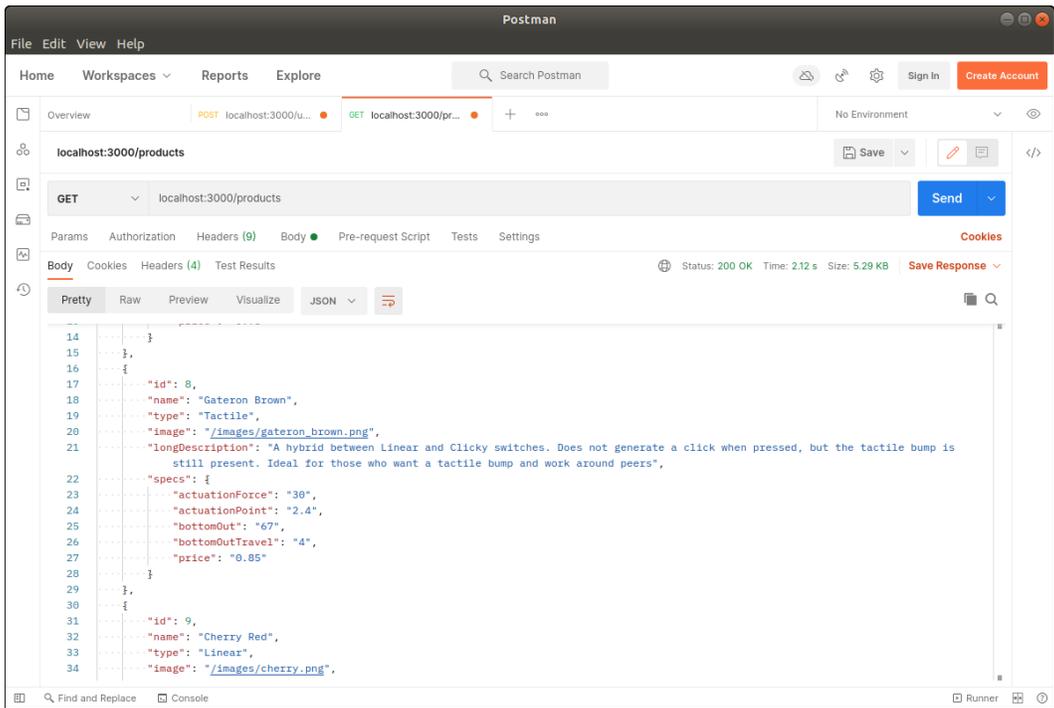
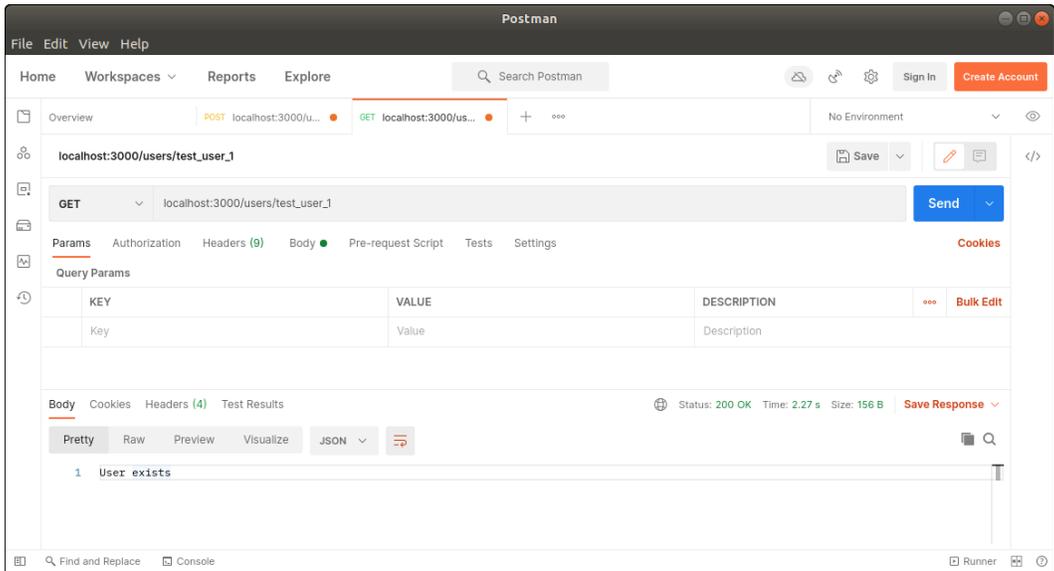




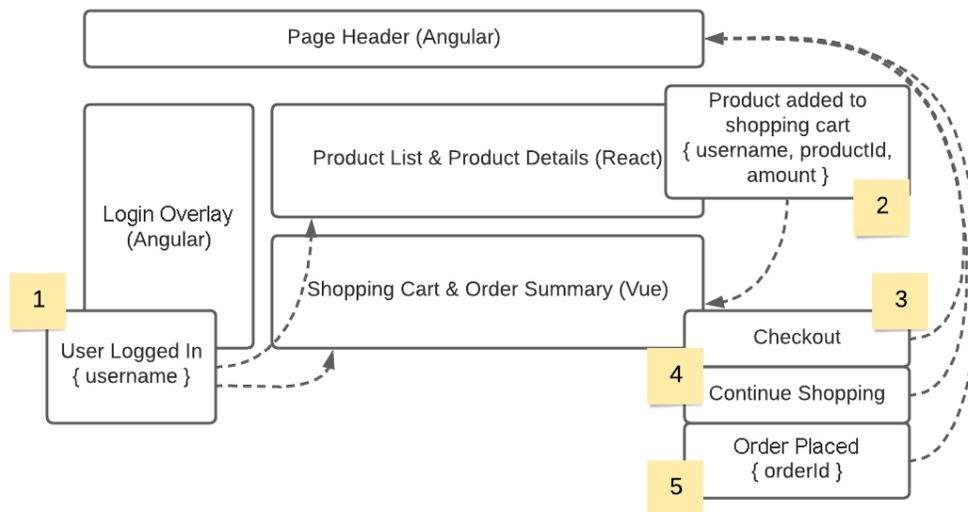
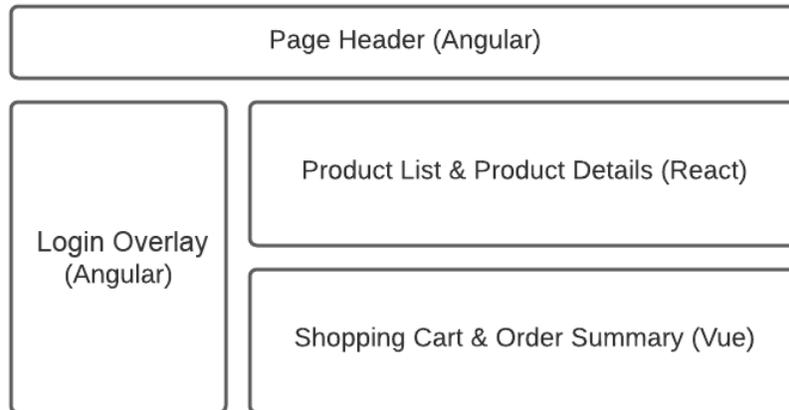


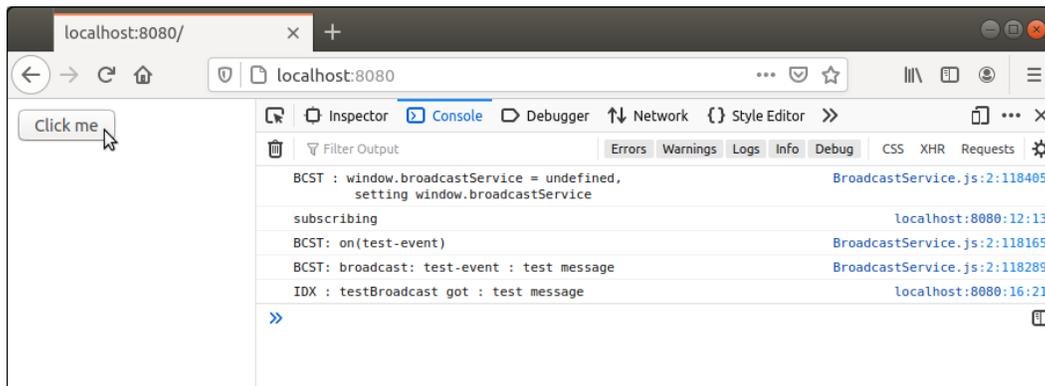
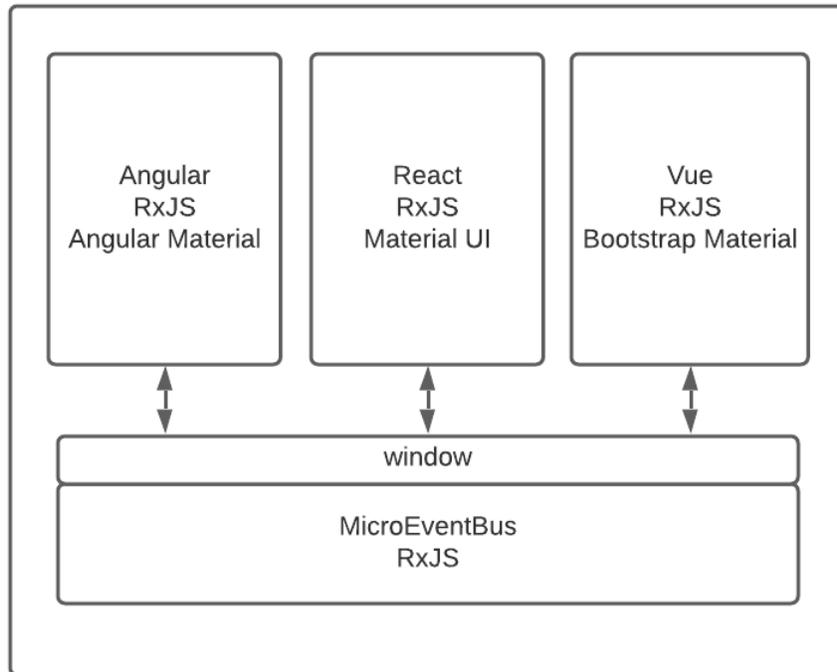






## Chapter 16: Micro Front-ends





React App localhost:3001

**Gateron Clear**  
Linear

Send user event

```

BCST: broadcast: user-logged-in : test_user_1 BroadcastService.js:2:118289
RCT : App.processUserLoginEvent : test_user_1 App.tsx:111
handleItemClick : 10 CollectionView.tsx:15
App.handleClick() called App.tsx:86
submit ; 70 DetailView.tsx:150
BCST: broadcast: add-user-cart-item : [object Object] BroadcastService.js:2:118289
IDX : add-user-cart-item received : localhost:3001:27:25
IDX : {
  "username": "test_user_1",
  "productId": 10,
  "amount": "70"
} localhost:3001:28:25
Details: handleClose() DetailView.tsx:140
App : handleClose() App.tsx:104
  
```

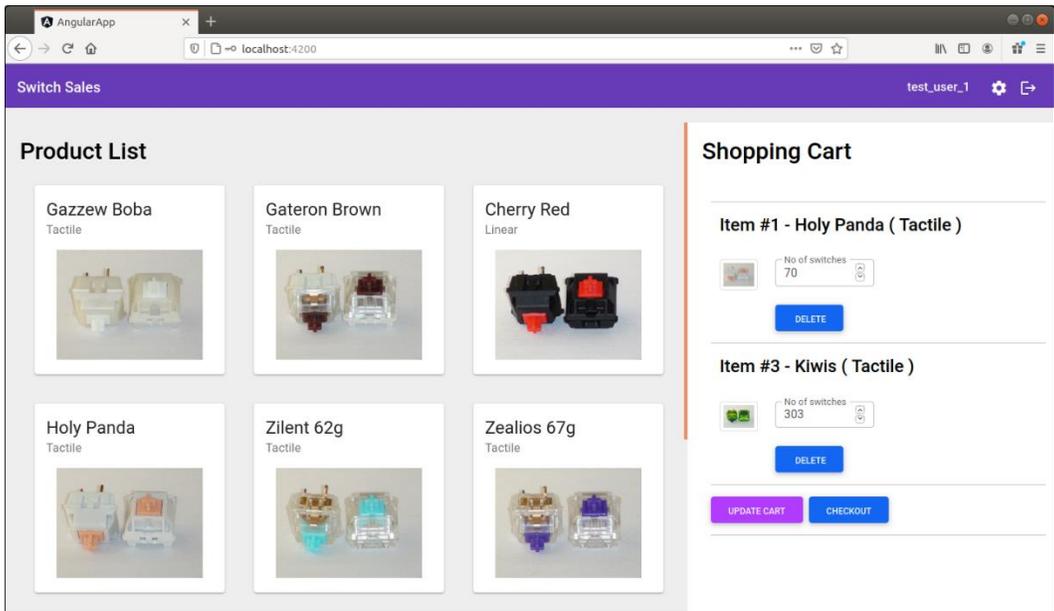
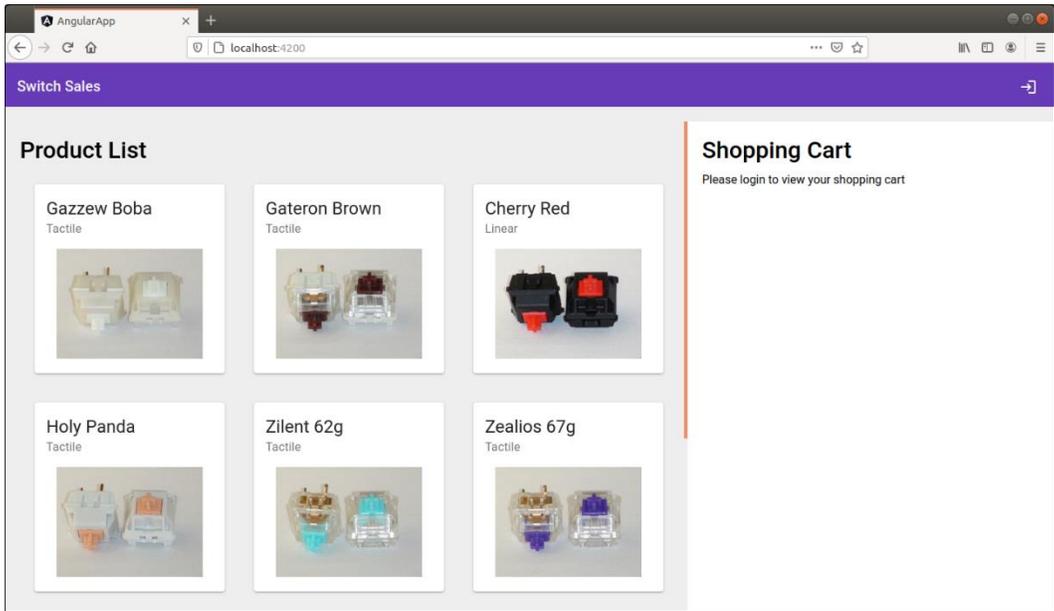
shopping-cart localhost:8080

### Check Out

Item ID	Name	Type	Amount	Price	Total
1	Holy Panda	Tactile	70	NaN	NaN
3	Kiwis	Tactile	303	NaN	NaN
<b>Cart Total</b>					<b>399.85</b>
<b>Tax</b>					<b>39.99</b>
<b>Shipping</b>					<b>7.00</b>
<b>Invoice Total</b>					<b>446.84</b>

```

BCST: window.broadcastService = undefined,
      setting window.broadcastService BroadcastService.js:2:118405
BCST: on(continue-shopping) BroadcastService.js:2:118165
BCST: on(place-order) BroadcastService.js:2:118165
[HPM] Waiting for update signal from WDS... log.js:24
VUE : calling createApp main.ts:5
VUE : App:mounted() App.vue:20
BCST: on(add-user-cart-item) BroadcastService.js:2:118165
BCST: on(user-logged-in) BroadcastService.js:2:118165
BCST: broadcast: user-logged-in : test_user_1 BroadcastService.js:2:118289
VUE : App.handleUserLoggedIn : test_user_1 App.vue:42
calling ajax with test_user_1 App.vue:49
cart loaded from API App.vue:52
BCST: broadcast: add-user-cart-item : [object Object] BroadcastService.js:2:118289
handleAddItemToCart : item : {"username":"test_user_1","productId":3,"amount":303} App.vue:64
calling GET on /products/3 App.vue:65
VUE : continueShopping() ShoppingCart.vue:41
BCST: broadcast: continue-shopping : BroadcastService.js:2:118289
IDX : continue-shopping : localhost:8080:33:25
VUE : placeOrder() ShoppingCart.vue:46
BCST: broadcast: place-order : BroadcastService.js:2:118289
IDX : place-order : localhost:8080:36:25
  
```



AngularApp localhost:4200 Switch Sales test\_user\_1

## Shopping Cart

### Check Out

Item ID	Name	Type	Amount	Price	Total
1	Holy Panda	Tactile	70	1.60	112.00
3	Kiwis	Tactile	303	0.95	287.85
Cart Total					399.85
Tax					39.99
Shipping					7.00
Invoice Total					446.84

[CONTINUE SHOPPING](#) [PLACE ORDER](#)

AngularApp localhost:4200 Switch Sales test\_user\_1

## Order Placed

Thank you, test\_user\_1.

Your order has been placed.

- The Switch Sales team.