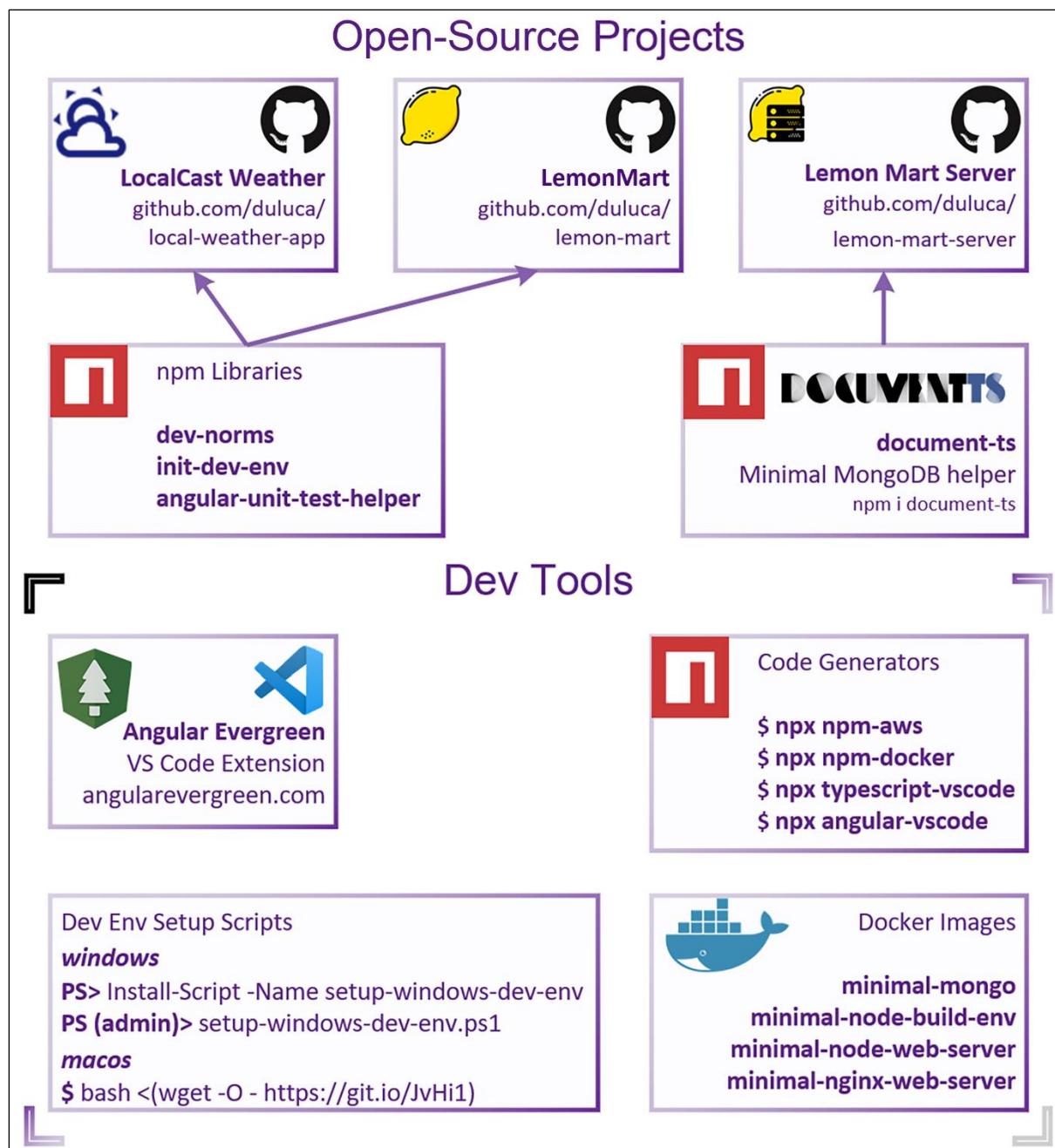
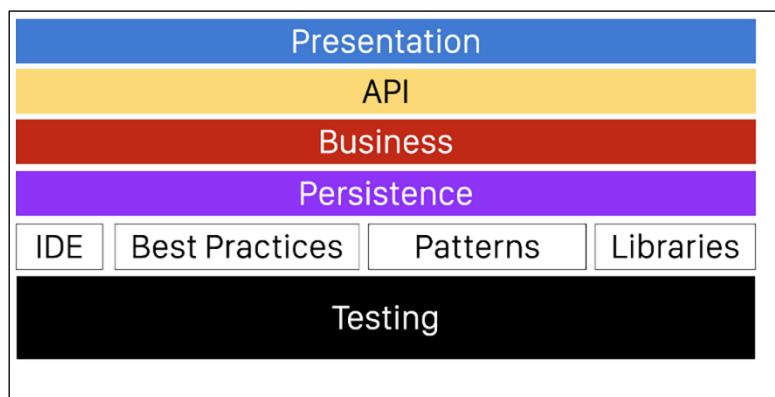
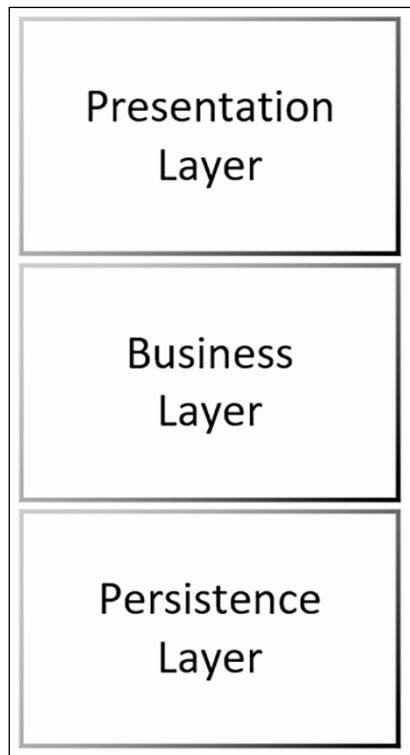
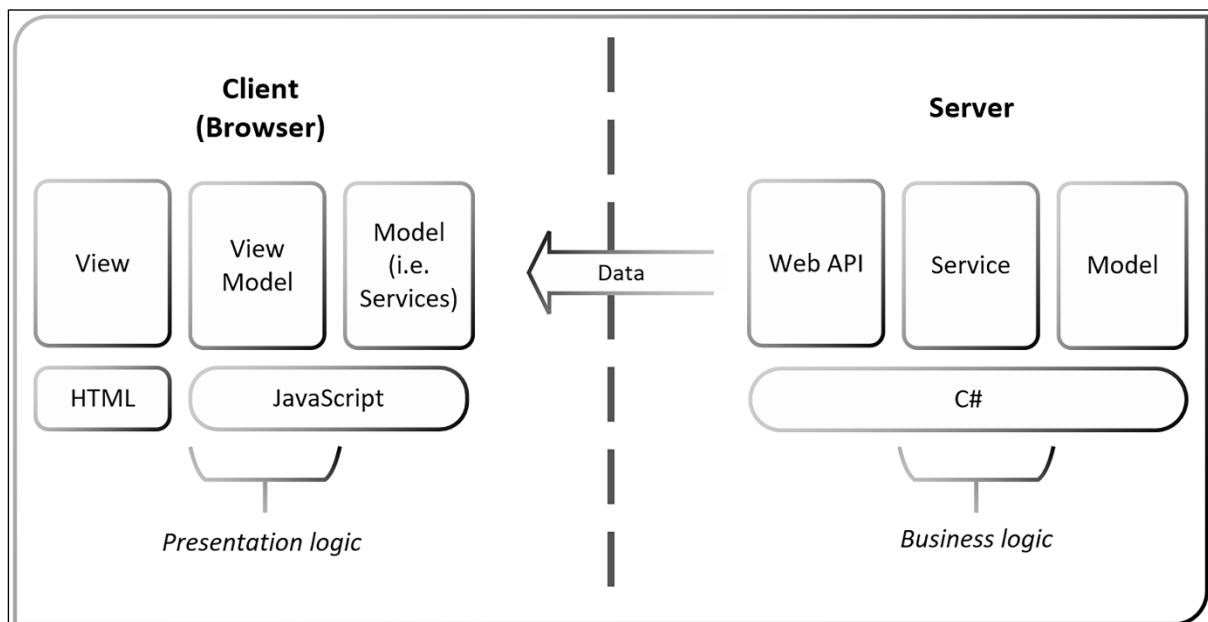
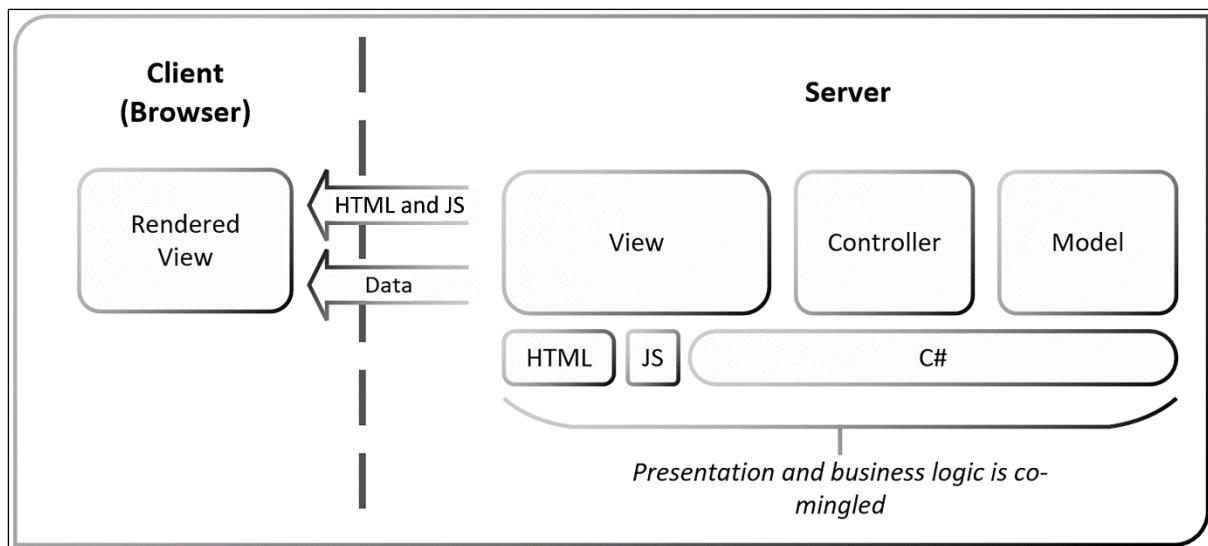


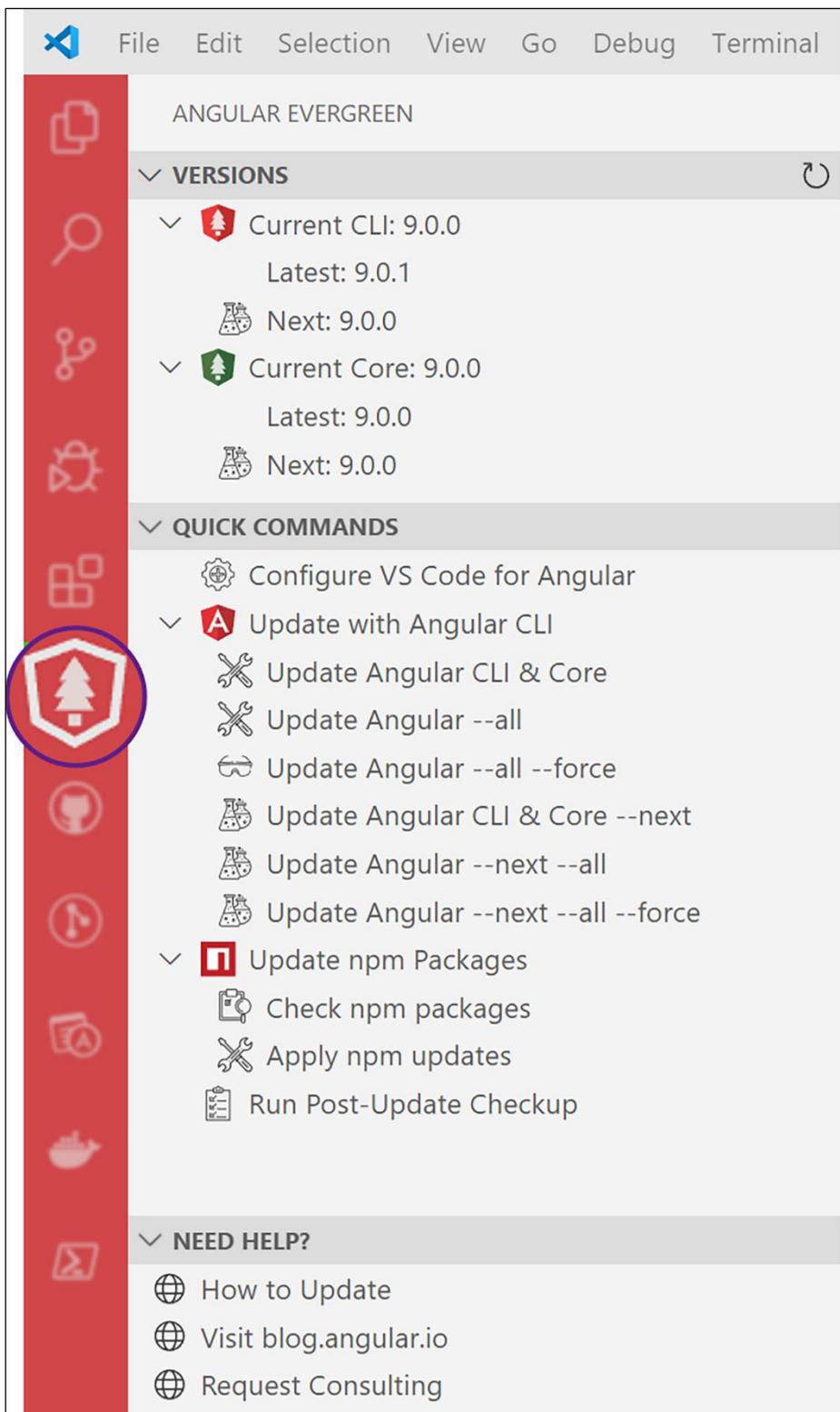
Chapter 1: Angular's Architecture and Concepts



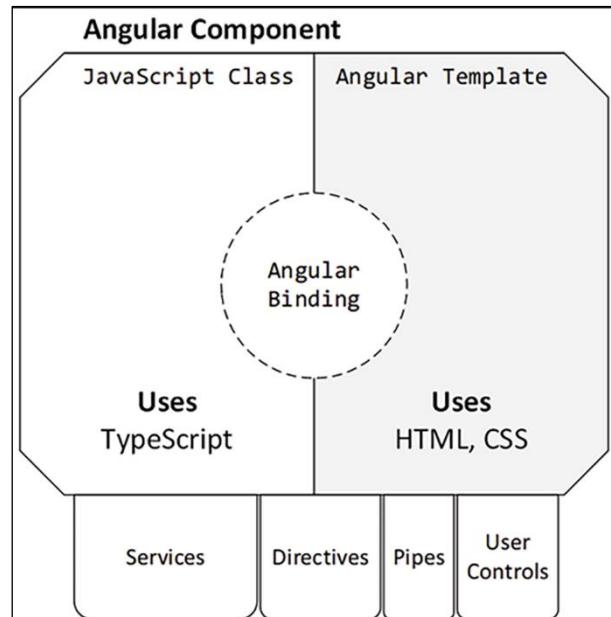
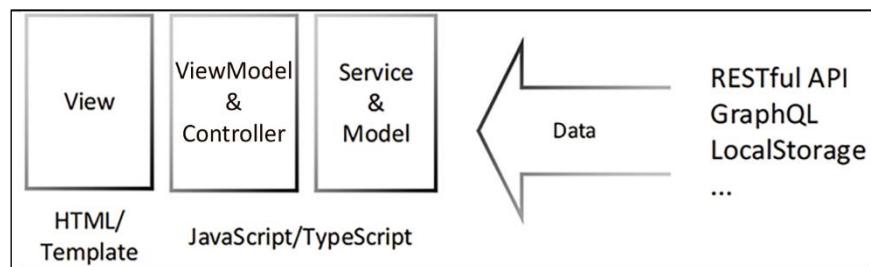
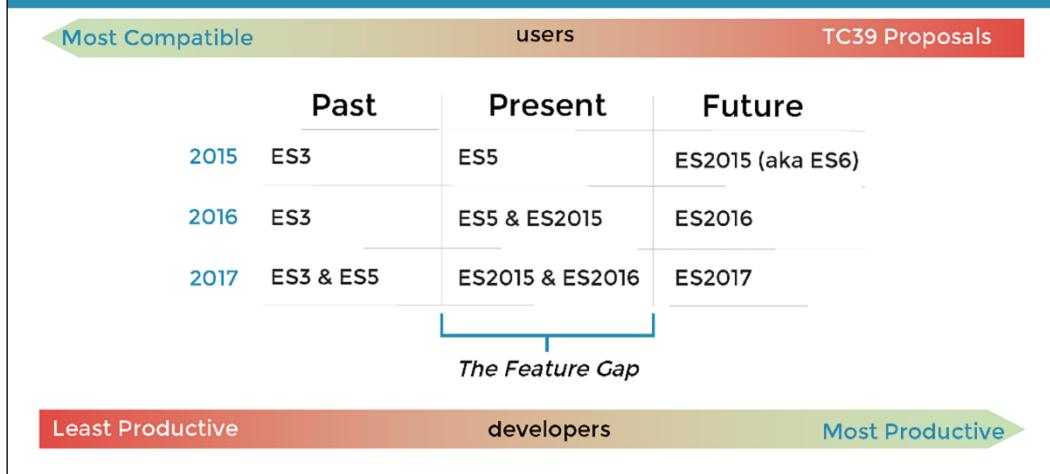


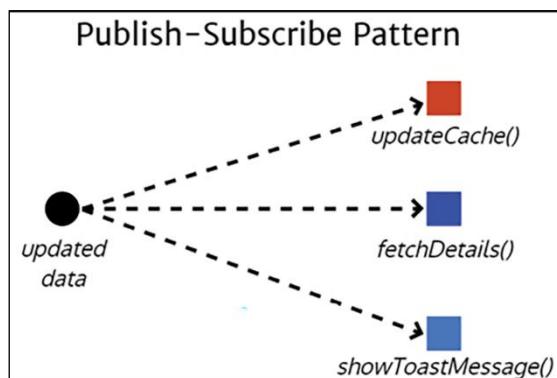
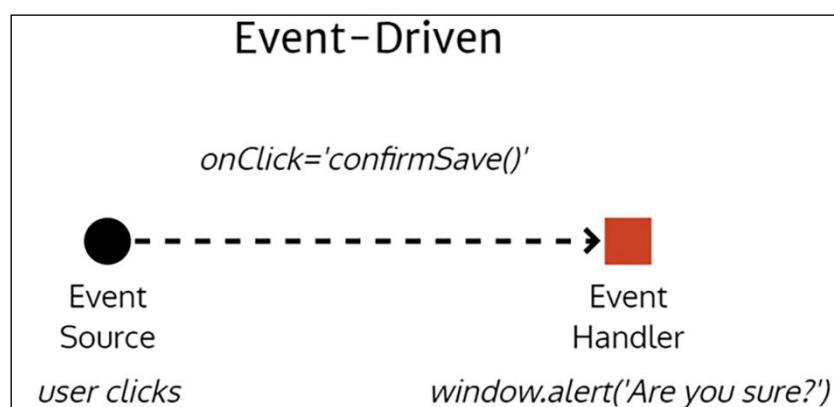
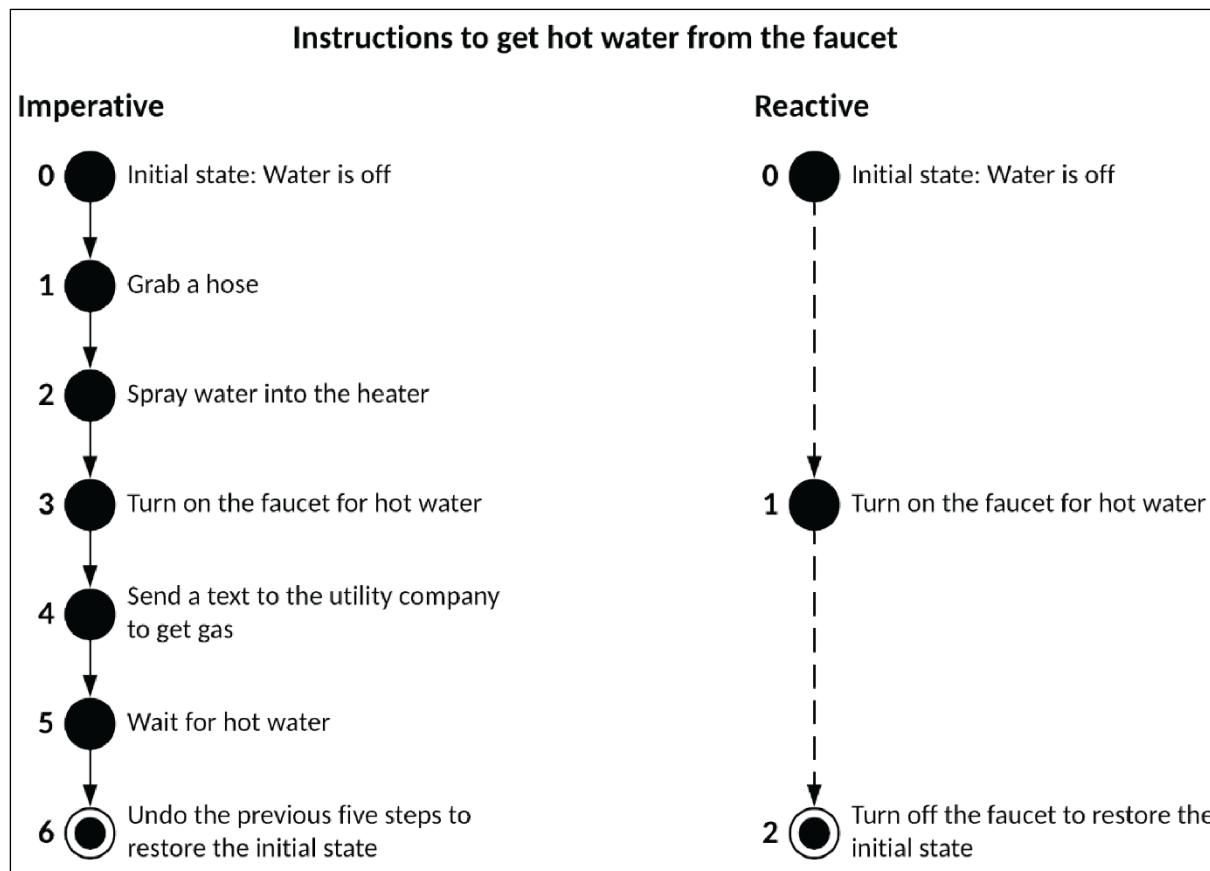


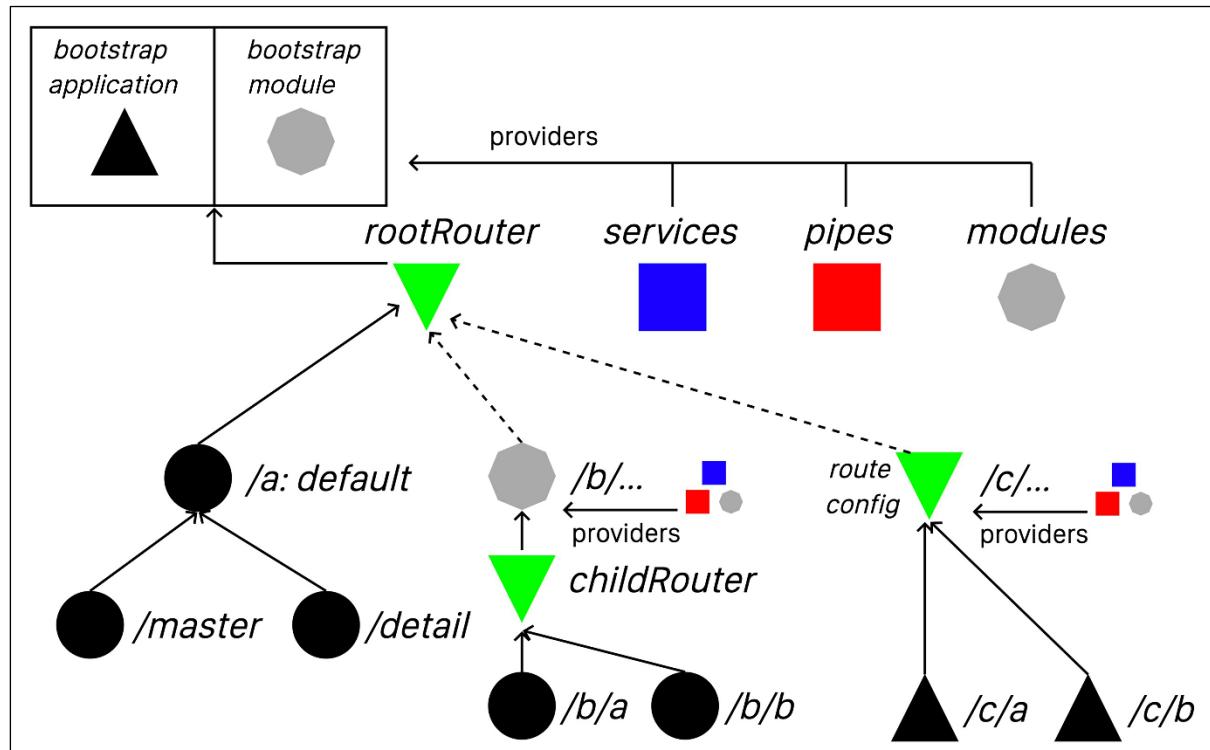
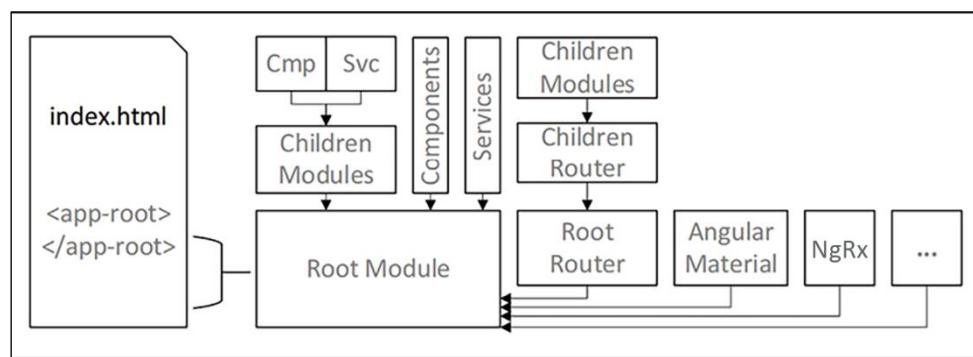
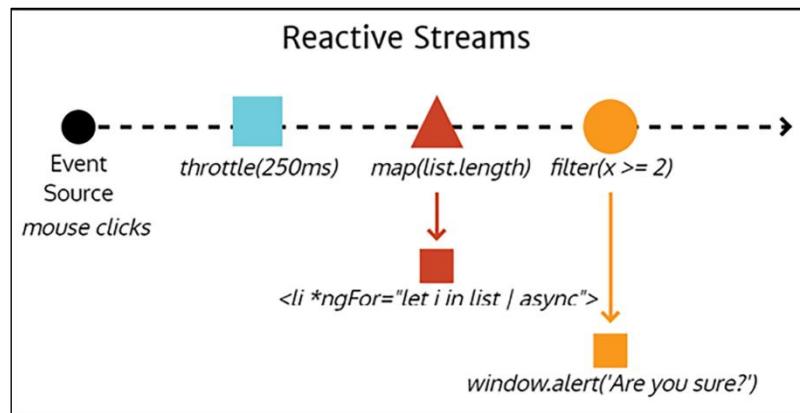
Version	Status	Released	Active Ends	LTS Ends
^14.0.0	LTS	2022-06-02	2022-11-18	2023-11-18
^15.0.0	LTS	2022-11-18	2023-05-03	2024-05-18
^16.0.0	LTS	2023-05-03	2023-11-03	2024-11-18
^17.0.0	Active	2023-11-06	2024-05-08	2025-05-15

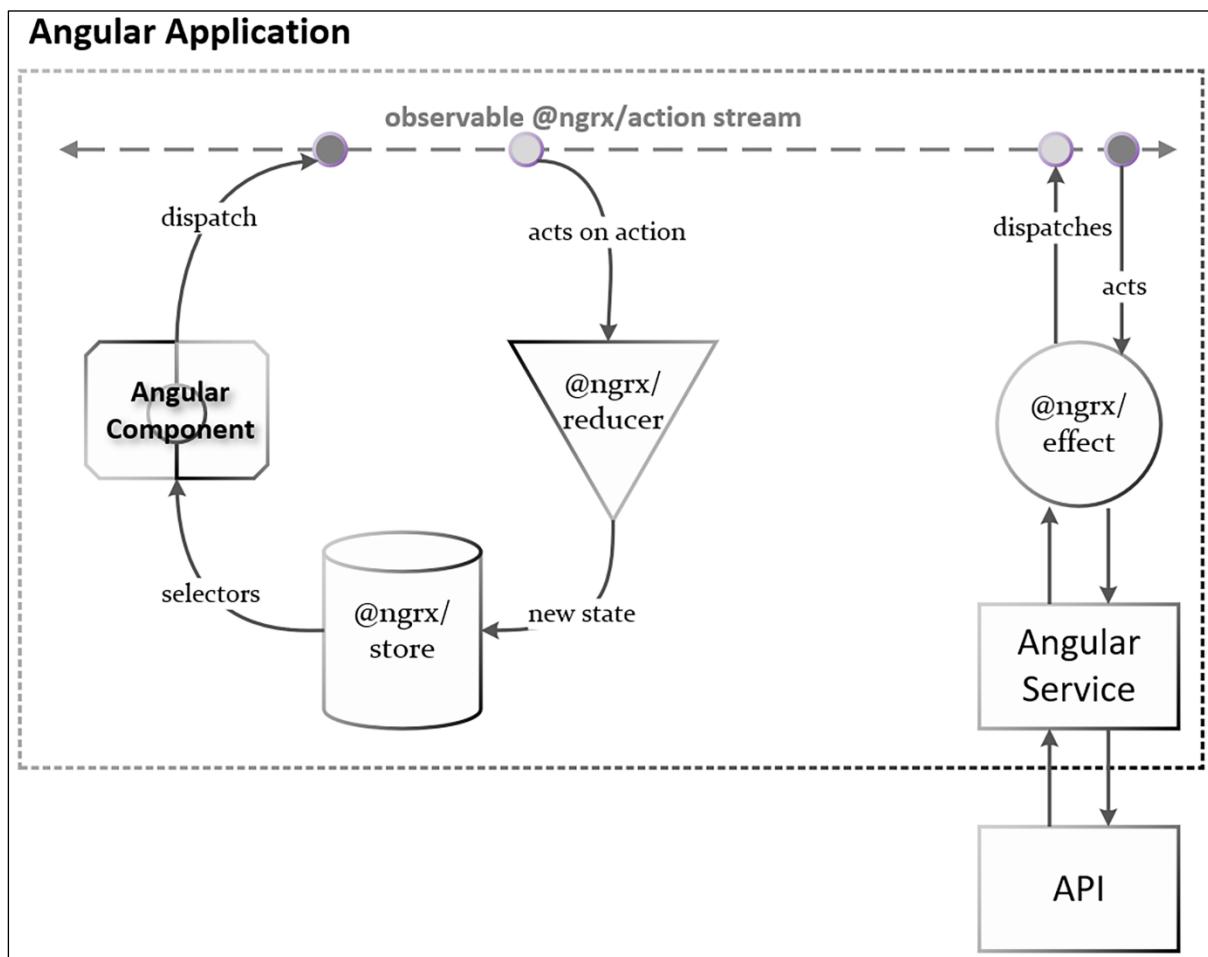
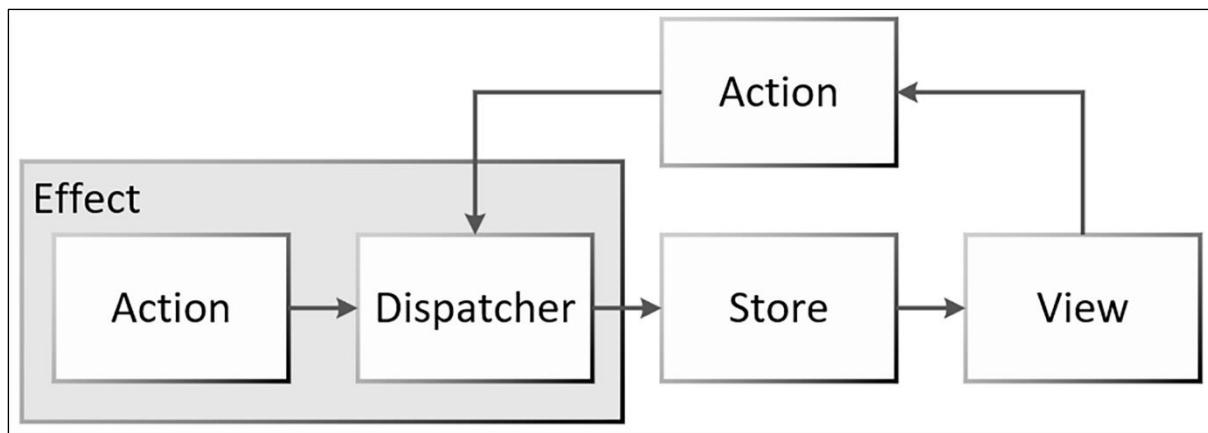


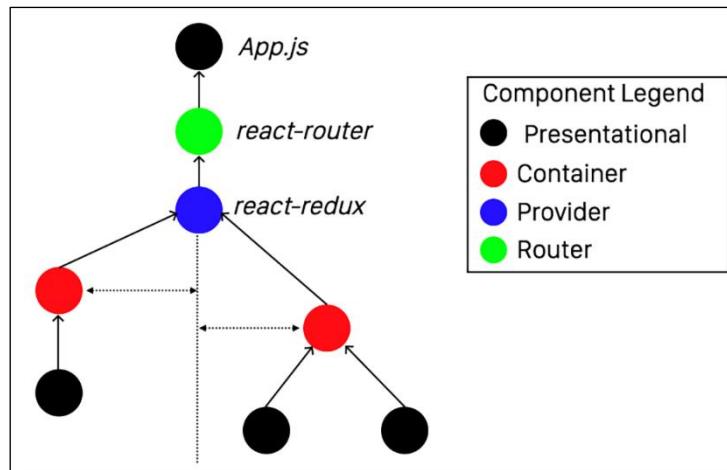
The JavaScript Feature Gap



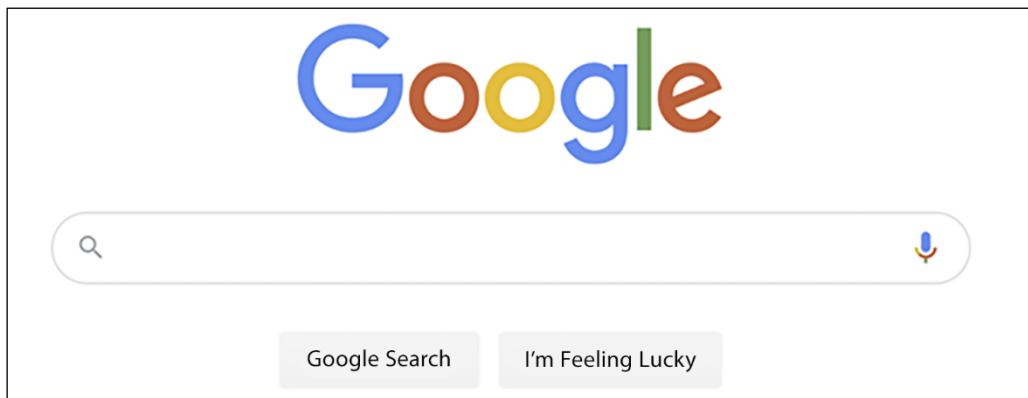
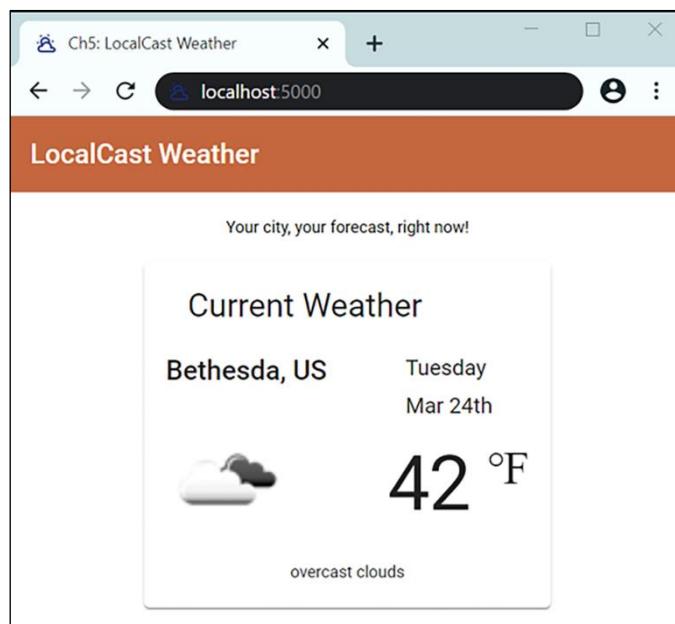


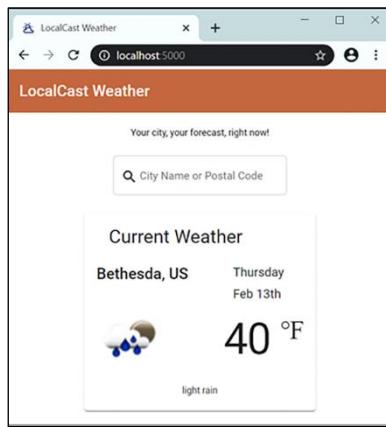
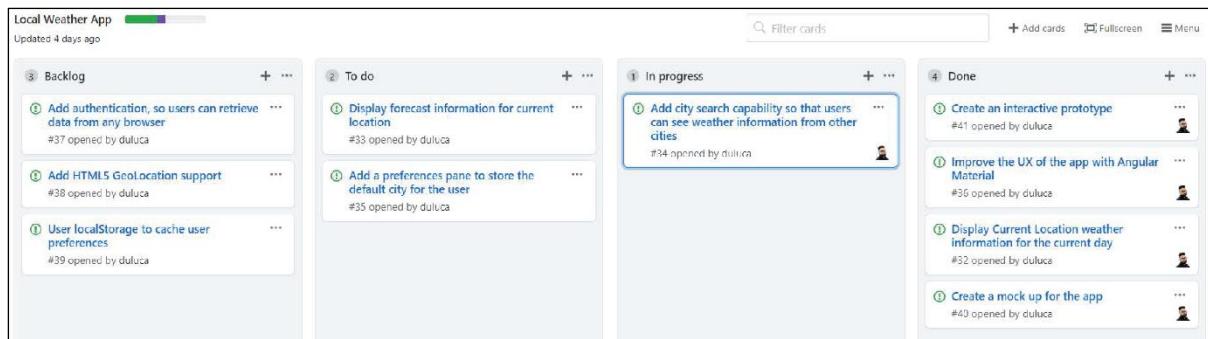






Chapter 2: Forms, Observables, Signals, and Subjects





Tue	Wed	Thu	Fri	Sat
80°F 	~~~~~	~~~~~	~~~~~	~~~~~

LocalCast Weather

Your city, your forecast, right now!

City Name or Postal Code

Q bursa

Specify country code line 'Paris, US'

Current Weather

Bursa, TR

Wednesday

Mar 25th



45 °F

broken clouds

Local Weather App Updated 4 days ago

Filter cards + Add cards Fullscreen Menu

Backlog	To do	In progress	Done
<p>Add authentication, so users can retrieve data from any browser #37 opened by dulica</p> <p>Add HTML5 Geolocation support #38 opened by dulica</p> <p>User localStorage to cache user preferences #39 opened by dulica</p> <p>Add a preferences pane to store the default city for the user #35 opened by dulica</p> <p>Display forecast information for current location #33 opened by dulica</p>			<p>Add city search capability so that users can see weather information from other cities #34 opened by dulica</p> <p>Create an interactive prototype #41 opened by dulica</p> <p>Improve the UX of the app with Angular Material #36 opened by dulica</p> <p>Display Current Location weather information for the current day #32 opened by dulica</p> <p>Create a mock up for the app #40 opened by dulica</p>

Local Weather App

Updated 4 days ago

Backlog	To do	In progress	Done
Add authentication, so users can retrieve data from any browser #37 opened by duluc	Add HTML5 GeoLocation support #38 opened by duluc	Support international zip codes #42 opened by duluc	Add city search capability so that users can see weather information from other cities #34 opened by duluc
User localStorage to cache user preferences #39 opened by duluc			Create an interactive prototype #41 opened by duluc
Add a preferences pane to store the default city for the user #35 opened by duluc			Improve the UX of the app with Angular Material #36 opened by duluc
Display forecast information for current location #33 opened by duluc			Display Current Location weather information for the current day #32 opened by duluc
			Create a mock up for the app #40 opened by duluc

LocalCast Weather

Your city, your forecast, right now!

City Name or Postal Code

EC2R 6AB

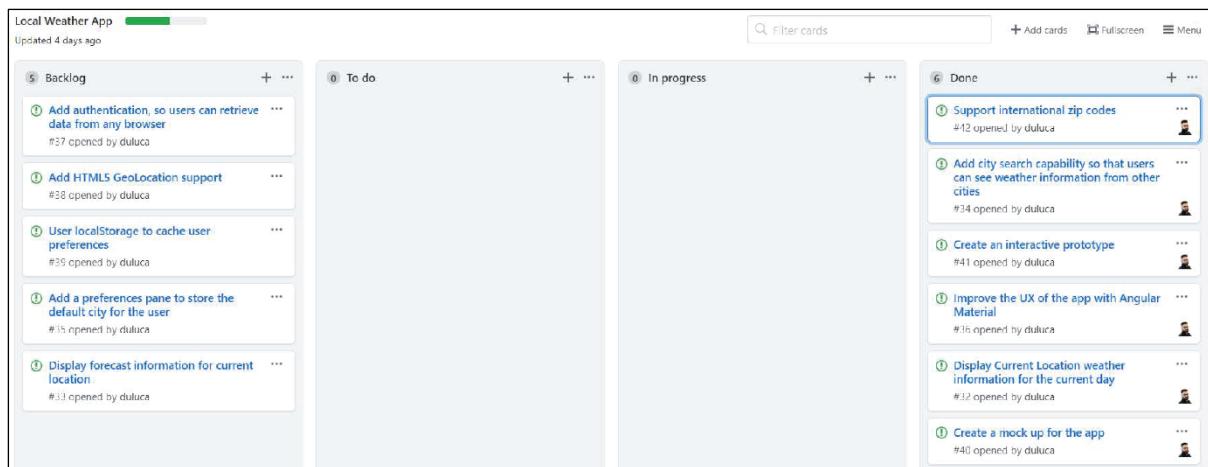
Specify country code like 'Paris, US'

Current Weather

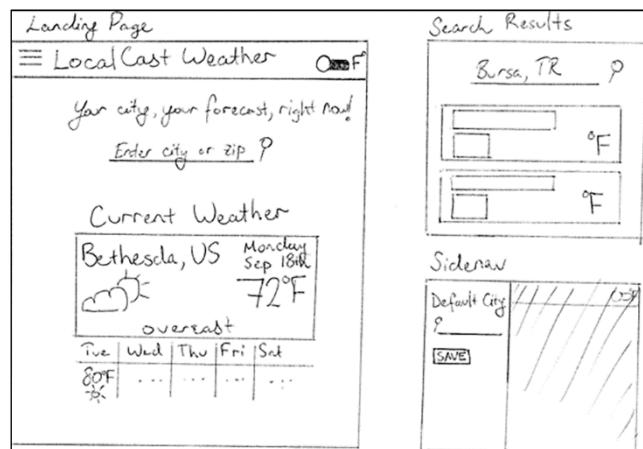
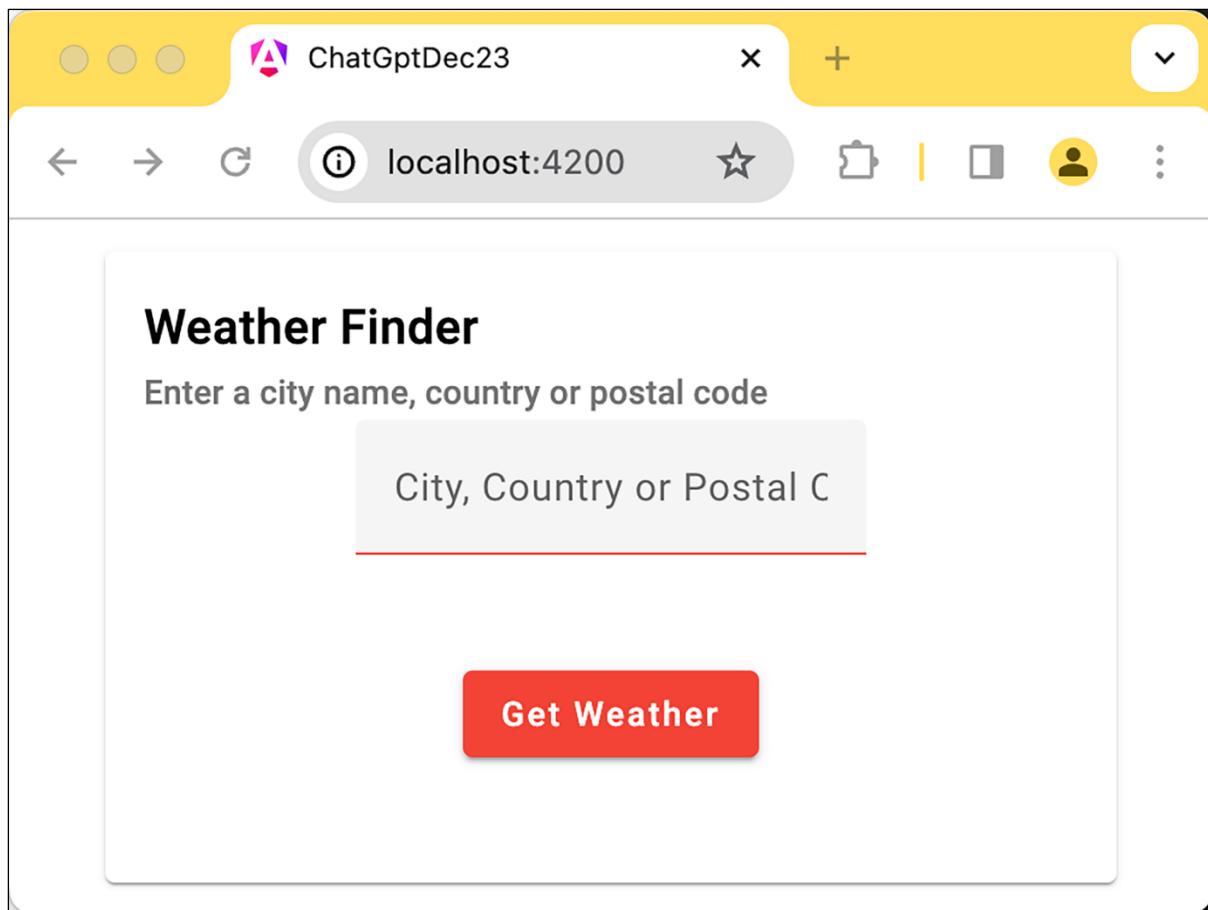
Barbican, GB Wednesday
Mar 25th

34 °F

clear sky



A screenshot of a web browser window titled "ChatGpt". The URL bar shows "localhost:4200". The page content is a weather application. It features a form with an input field labeled "Enter City" containing "Bethesda" and a blue button labeled "Fetch Weather". Below the form, the heading "Weather in Bethesda" is displayed, followed by "Temperature: 287.95°C" and "Conditions: clear sky".



ChatGptDec23

localhost:4200

LocalCast Weather

Enter city or ZIP 

Bethesda, US

Monday Sep 18 **72°F**

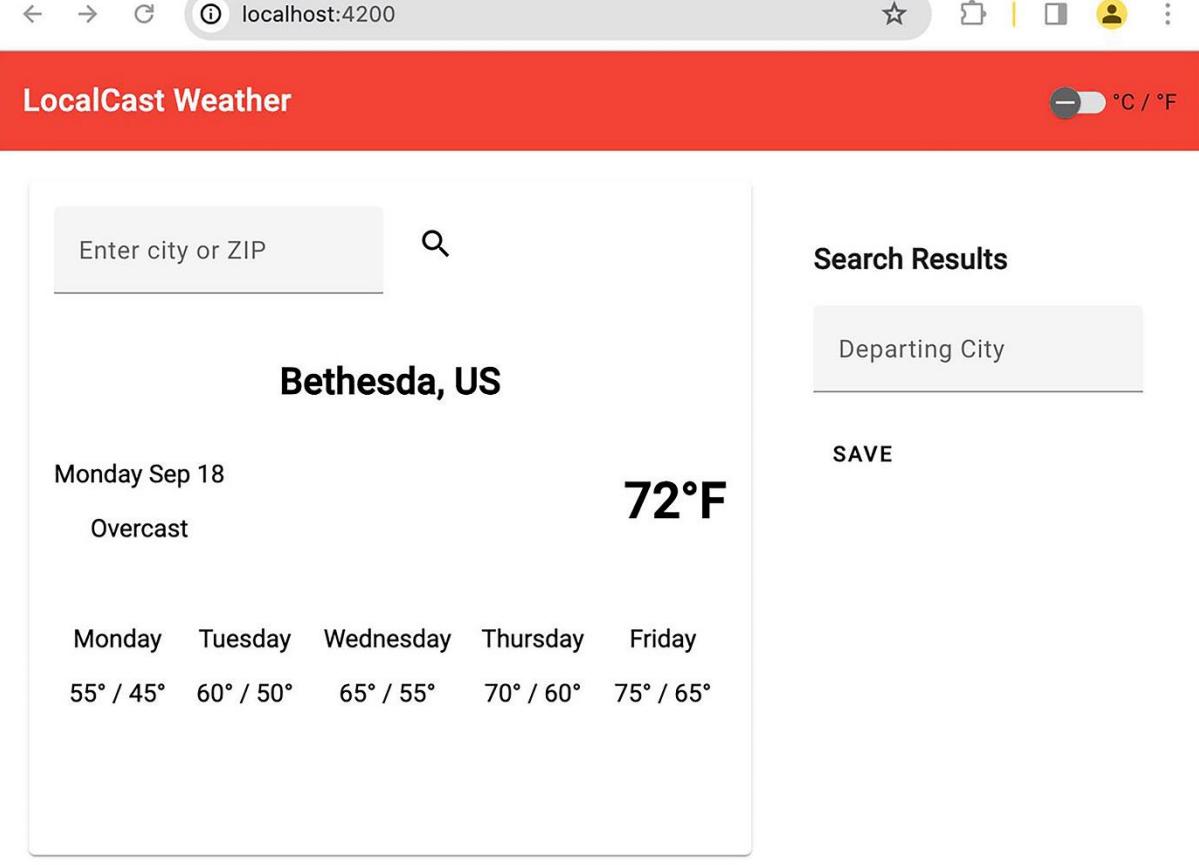
Overcast

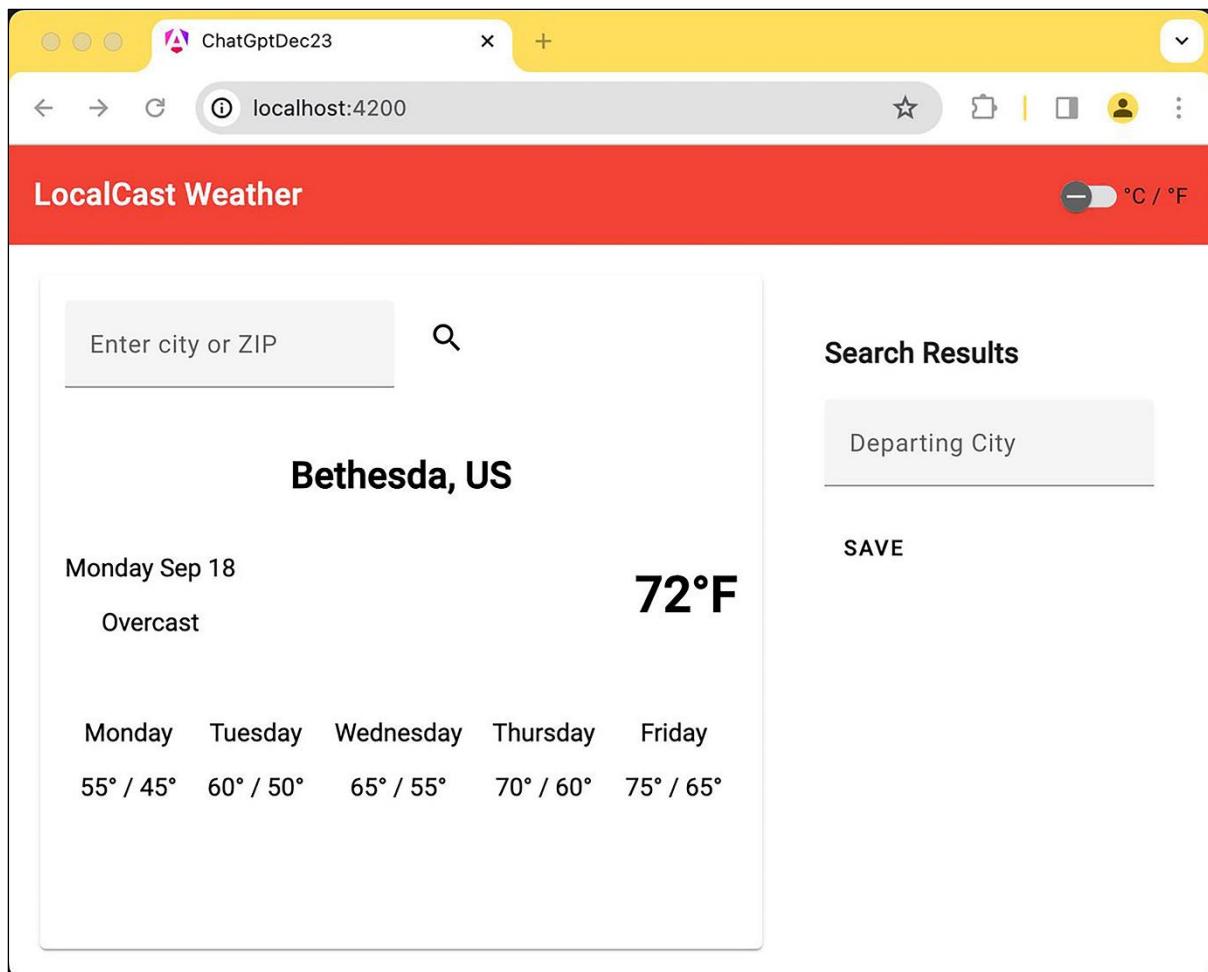
SAVE

Departing City

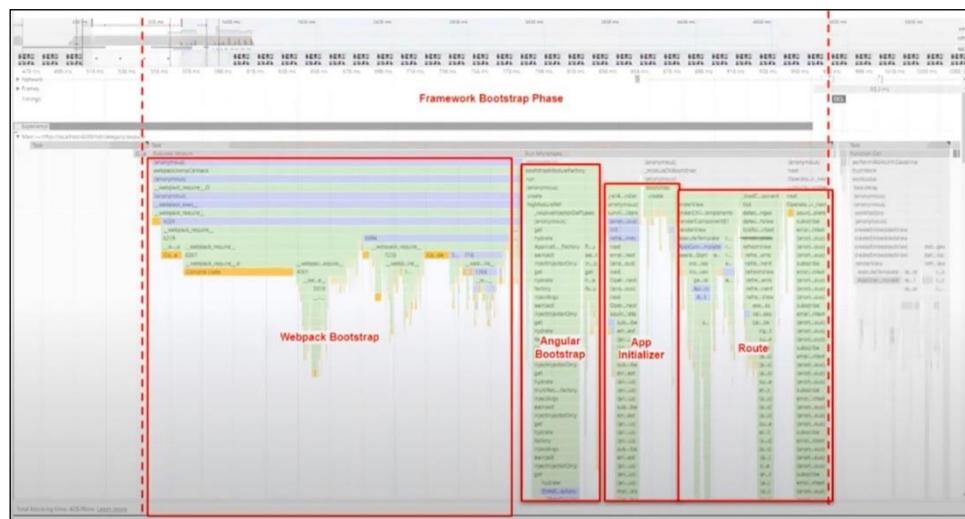
Monday Tuesday Wednesday Thursday Friday

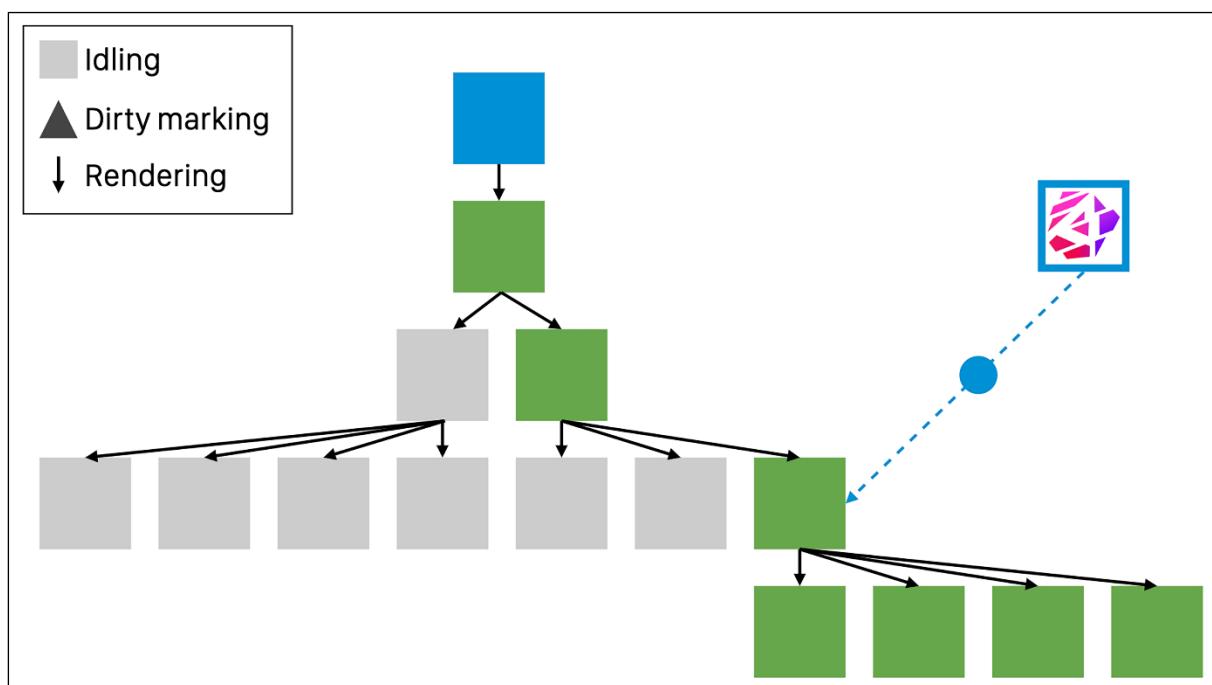
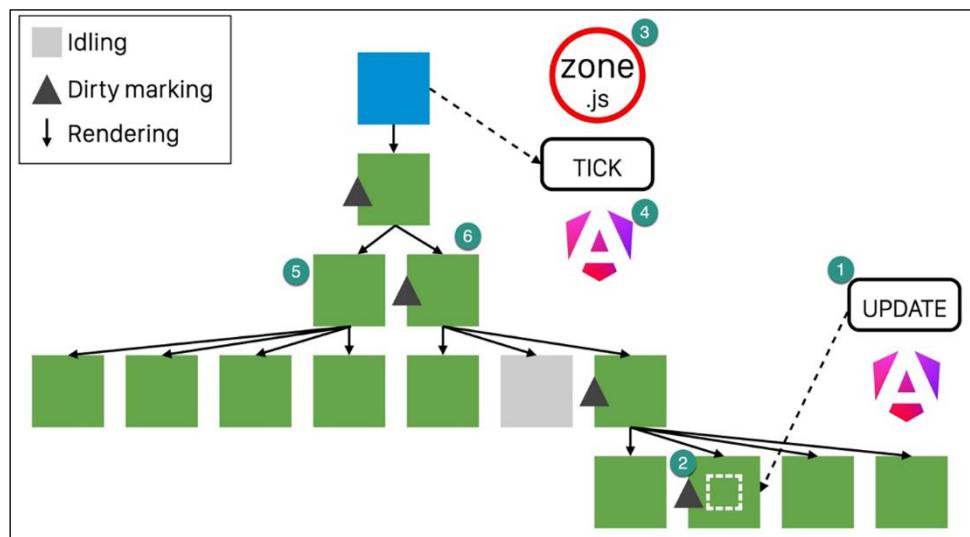
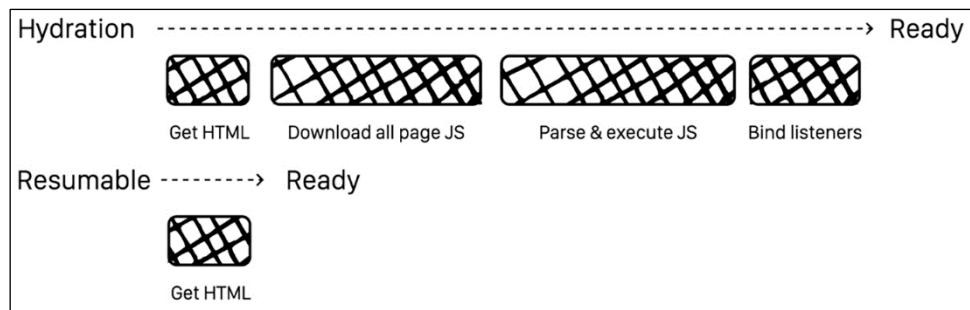
55° / 45° 60° / 50° 65° / 55° 70° / 60° 75° / 65°

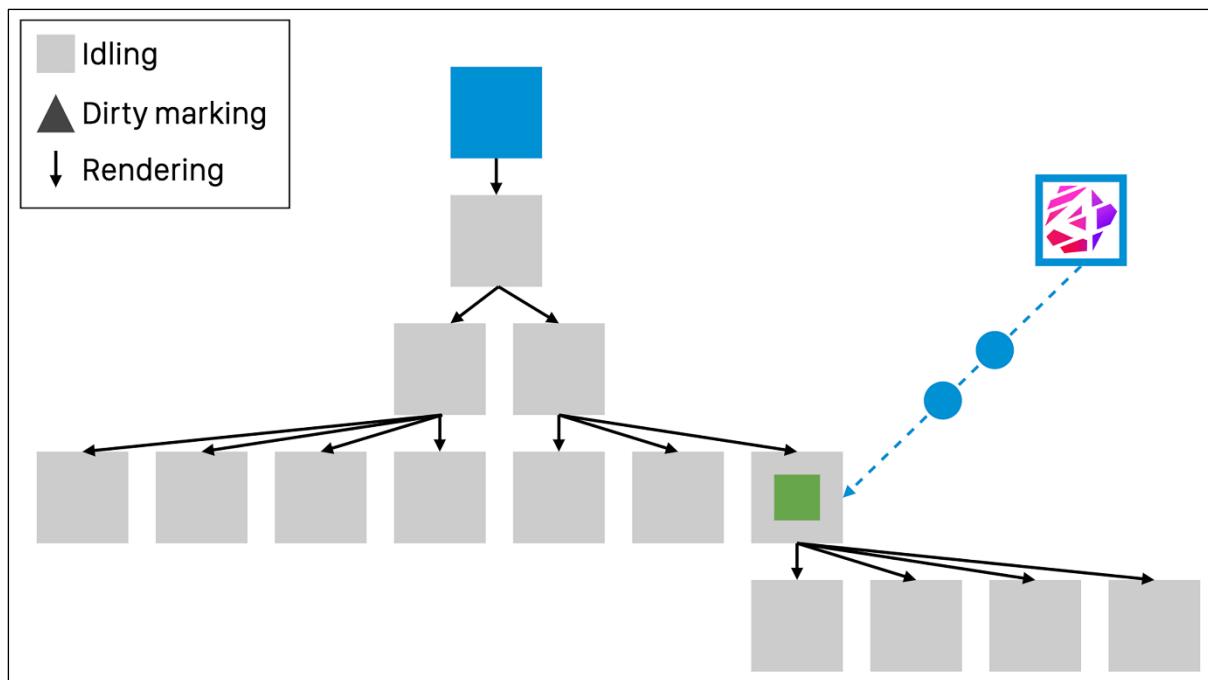




Chapter 3: Architecting an Enterprise App







Select a template

Start from scratch

- Table
- Board
- Roadmap

Project templates

- Team backlog**
- Feature

Team backlog

Project name

LemonMart

Team backlog template

Backlog 7

- planning-tracking-demo #806 Upsell / Growth experience
- planning-tracking-demo #24 Beta signup page
- planning-tracking-demo #16 Free and paid levels
- planning-tracking-demo #798 Introduce levels so the gamer can take breaks

Ready 4

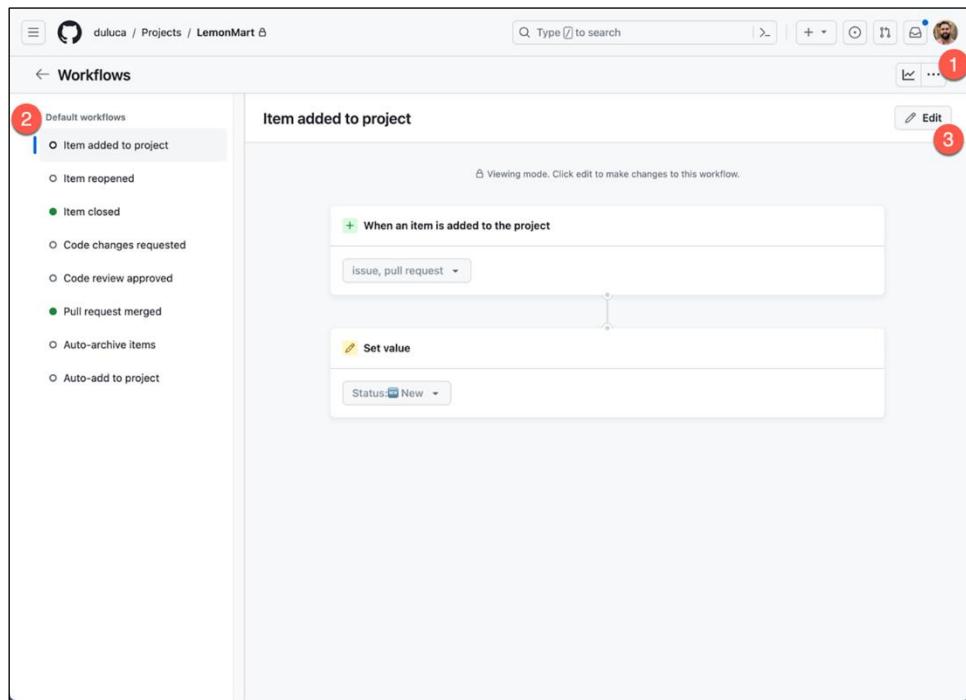
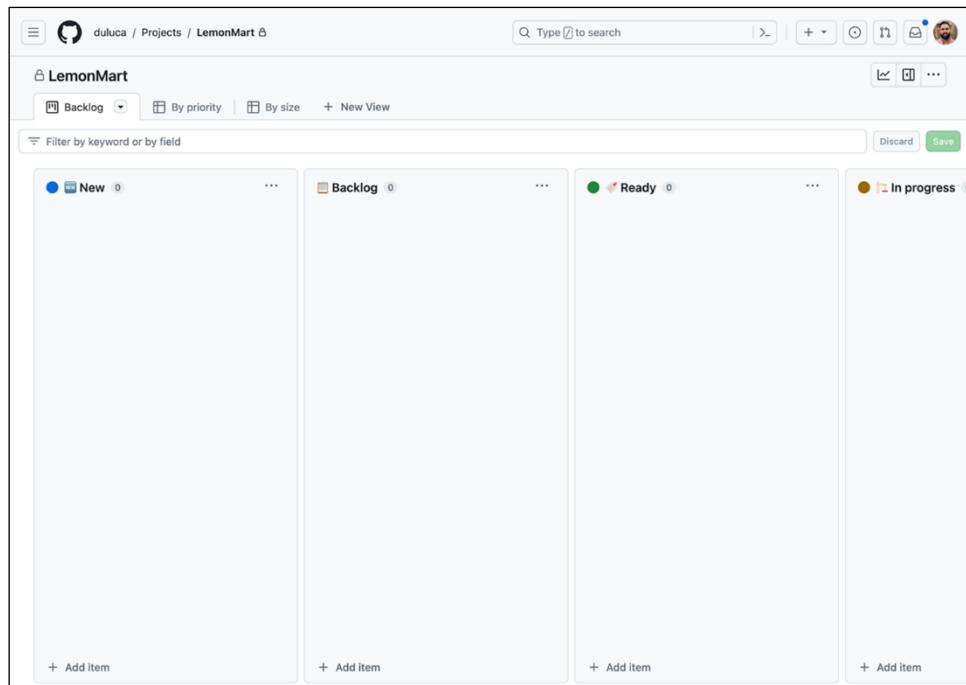
- planning-tracking-demo #101 Integrate new payments system
- planning-tracking-demo #809 Integrate with backend systems
- planning-tracking-demo #823 Updates and bug fixes to engine from Beta
- planning-tracking-demo #811 Integrate with Leaderboard Service

In progress 3

- planning-tracking-demo #822 Hero site - Development
- planning-tracking-demo #1012 Score and game reset logic
- planning-tracking-demo #1151 Design new launch screen

Define and plan your team's backlog using a task board and custom fields for item priority and size.

Create



App Shell #92
dulaca wants to merge 3 commits into `main` from `server-side-rendering`

dulaca commented 2 days ago · edited

Feature/Change Description

Implement App Shell

Developer Checklist

- Updated documentation or README.md
- If adding new feature(s), added and ran unit tests
- If create new release, bumped version number
- Ran `npm run style:fix` for code style enforcement
- Ran `npm run lint:fix` for linting
- Ran `npm audit` to discover vulnerabilities

dulaca added 3 commits 2 days ago

- o **app shell** dabf40d
- o **icon fix** f18e276
- o **added scripts** c66de52

sonarcloud bot commented 2 days ago

SonarCloud Quality Gate failed. Failed

- 0 Bugs
- 0 Vulnerabilities
- 1 Security Hotspot
- 0 Code Smells
- No Coverage information
- 0.0% Duplication

Catch issues before they fail your Quality Gate with our IDE extension [SonarLint](#)

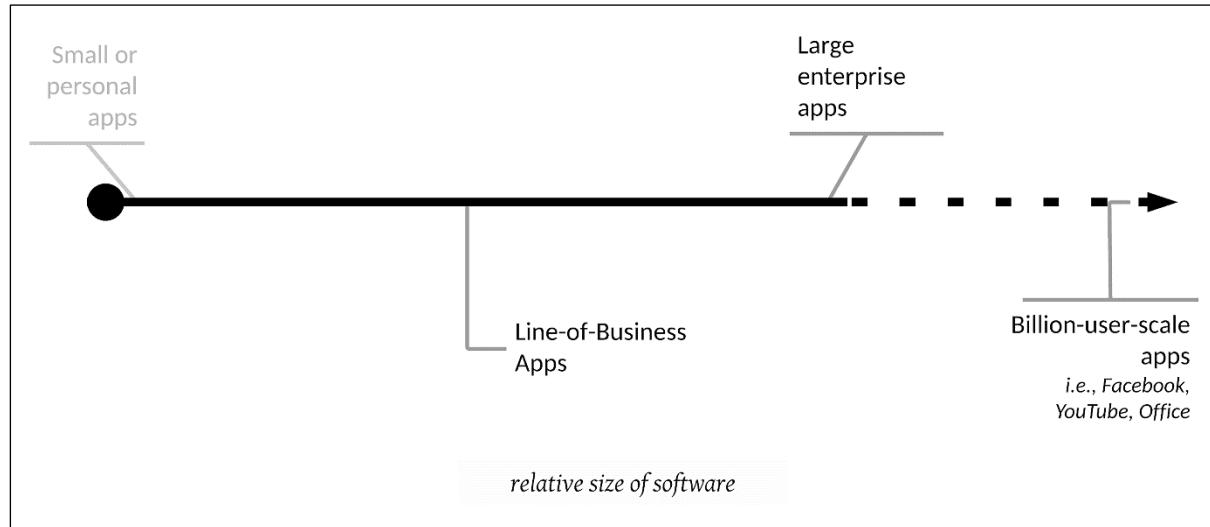
Projects
LemonMart
Status: In progress +4 more
Priority: High
Size: Large
Due date: Sep 5, 2023
Start date: Sep 1, 2023

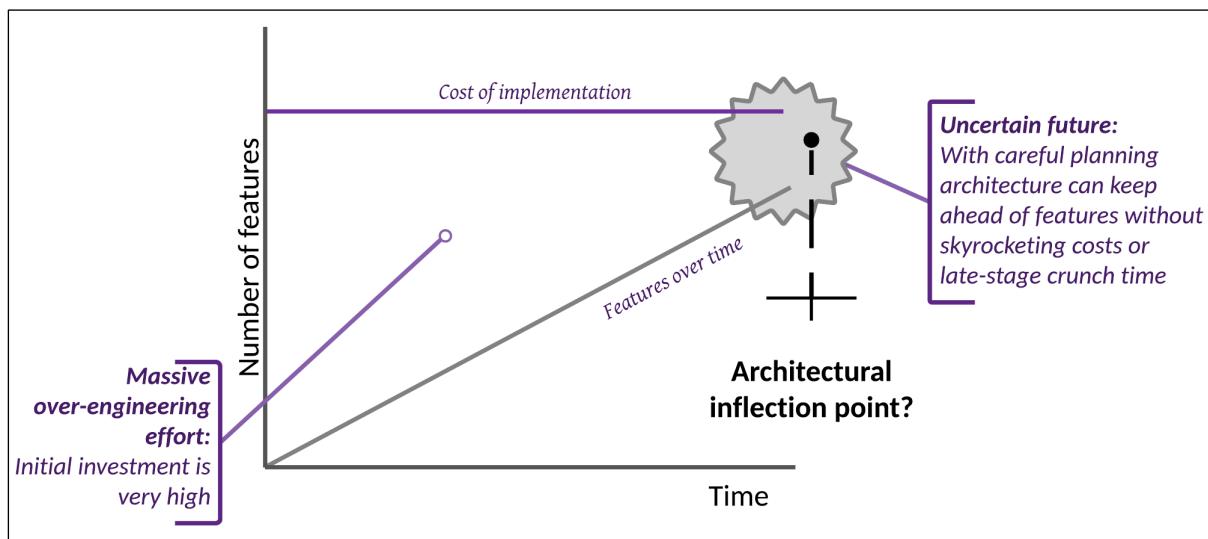
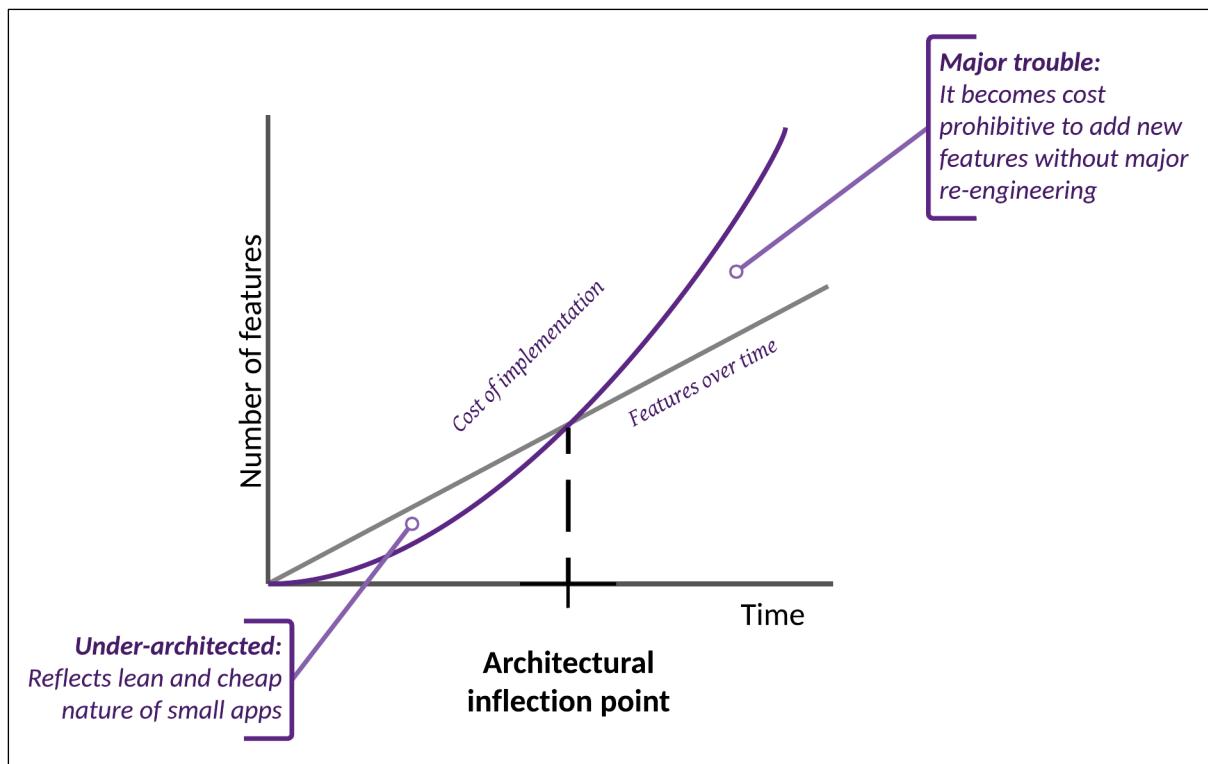
Milestone
3rd Edition

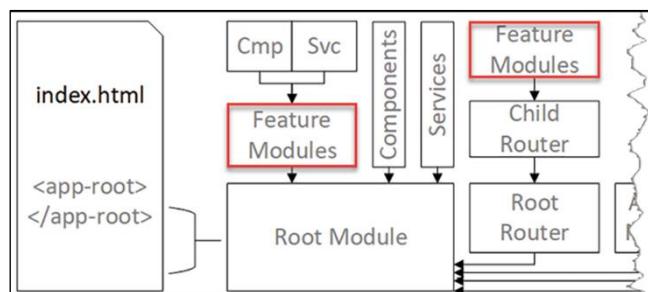
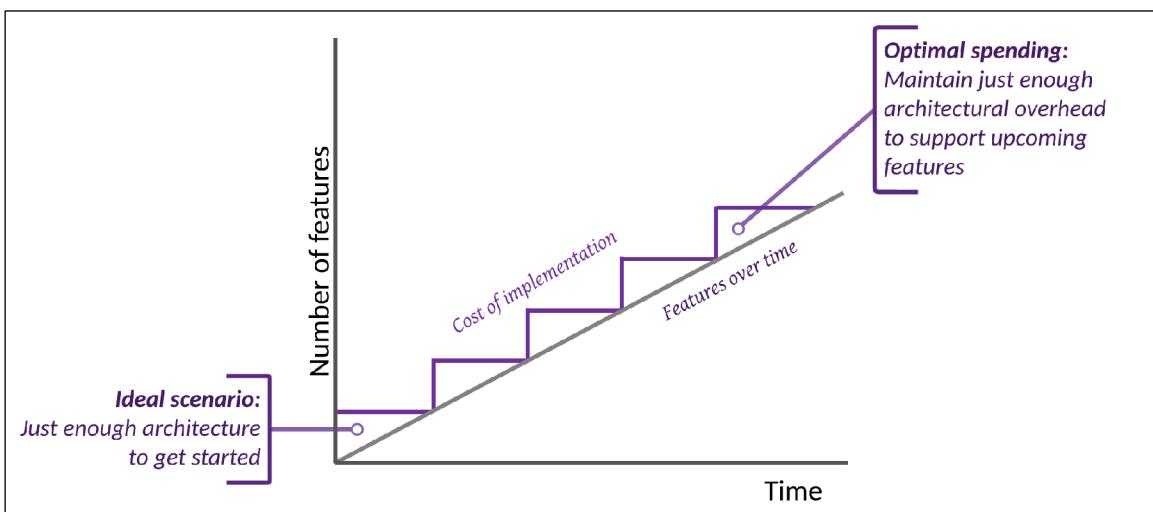
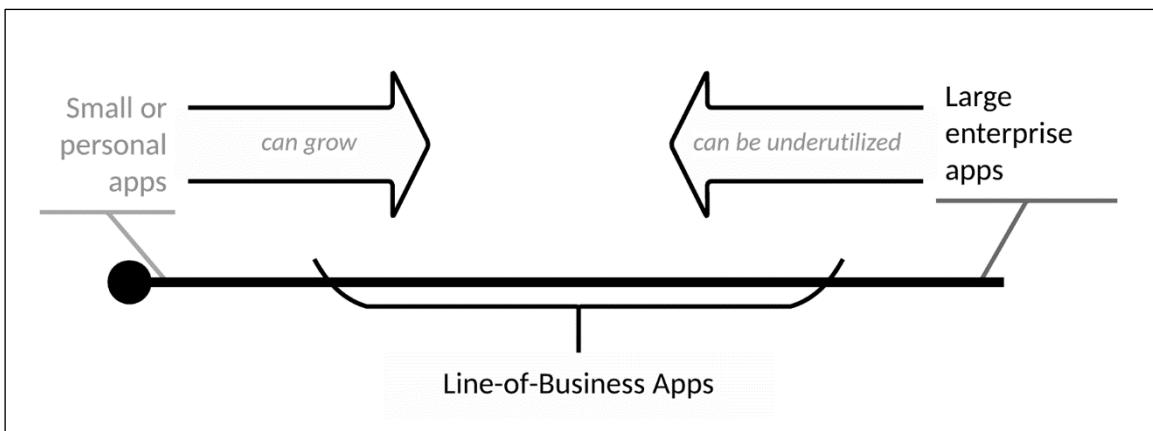
Development
Successfully merging this pull request may close these issues.

Experiment with AppShell

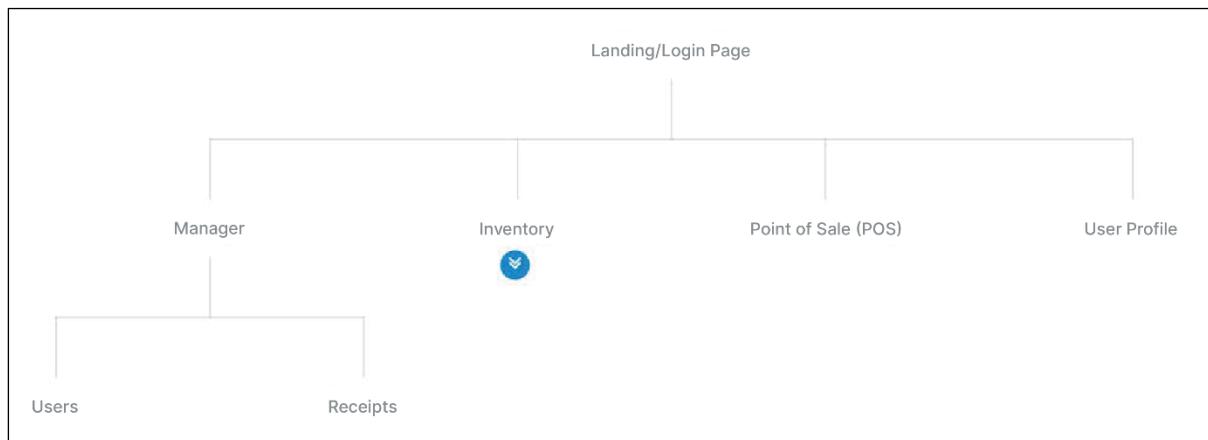
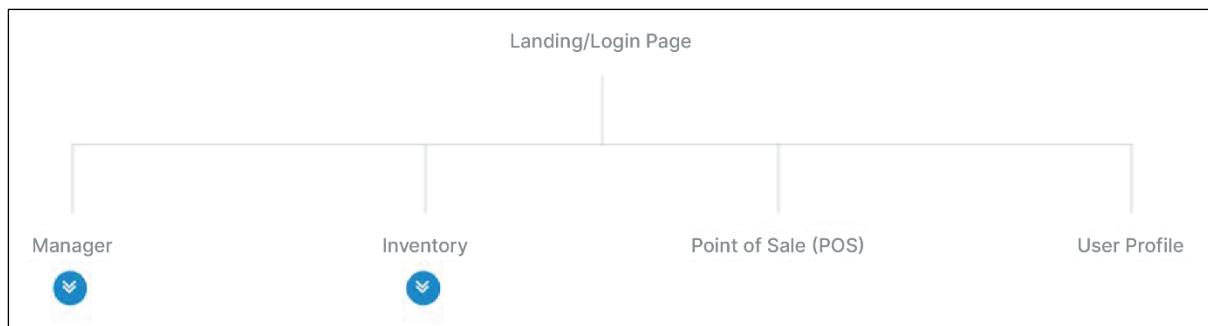
Notifications Customize [Unsubscribe](#)

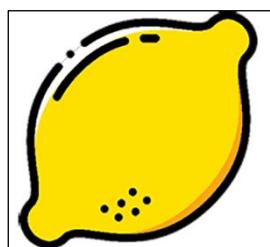
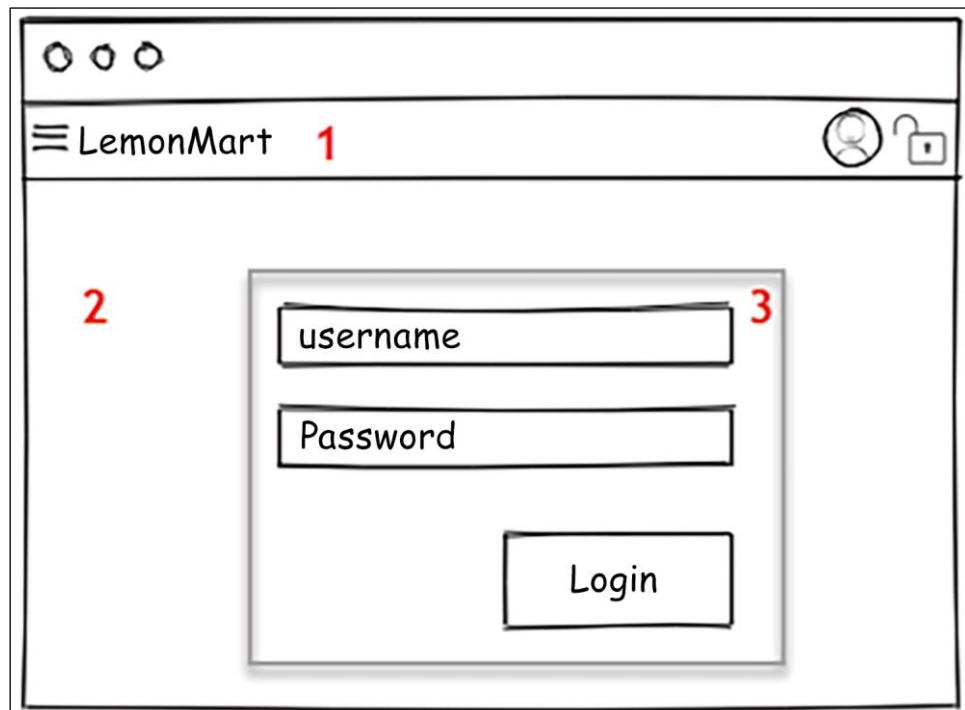
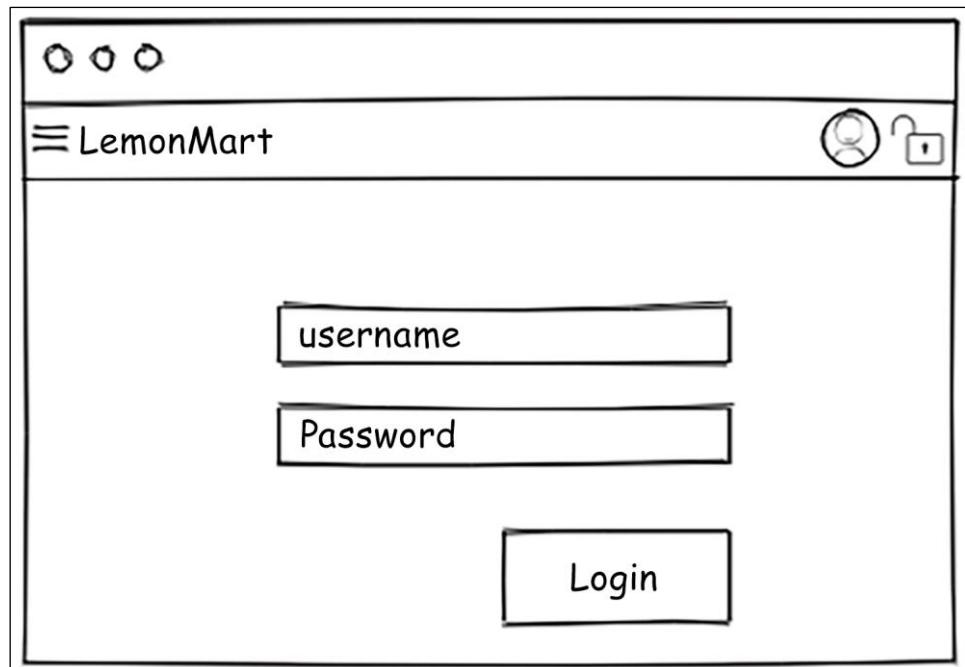


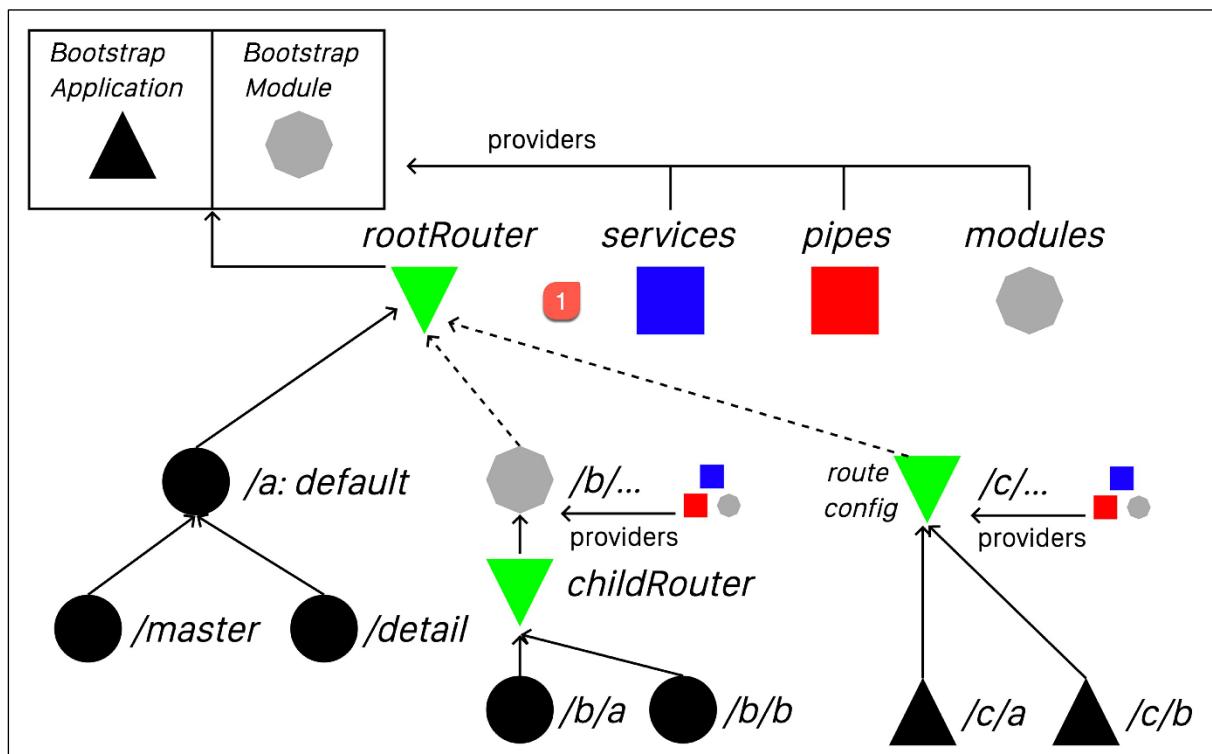
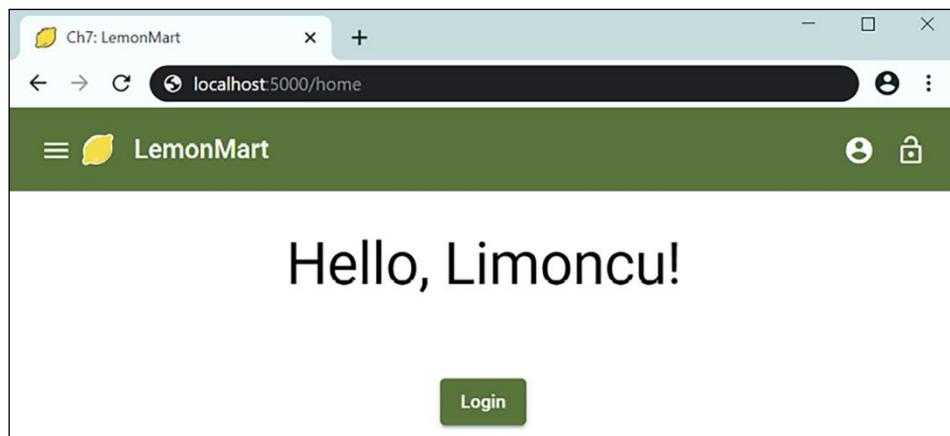


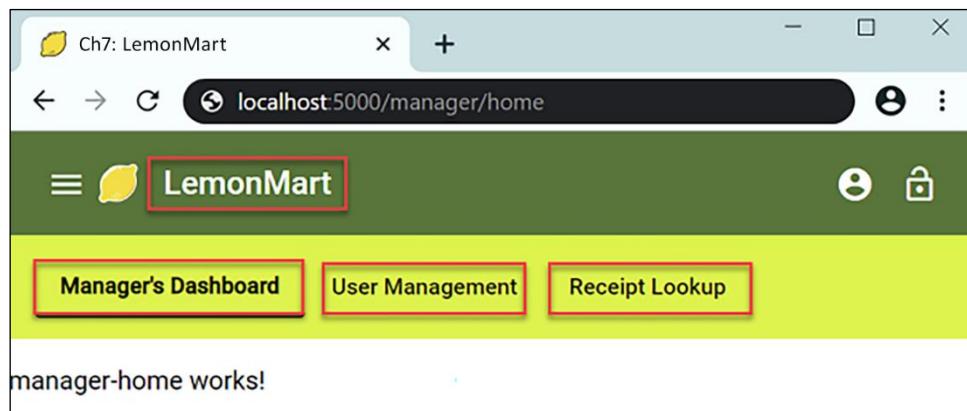
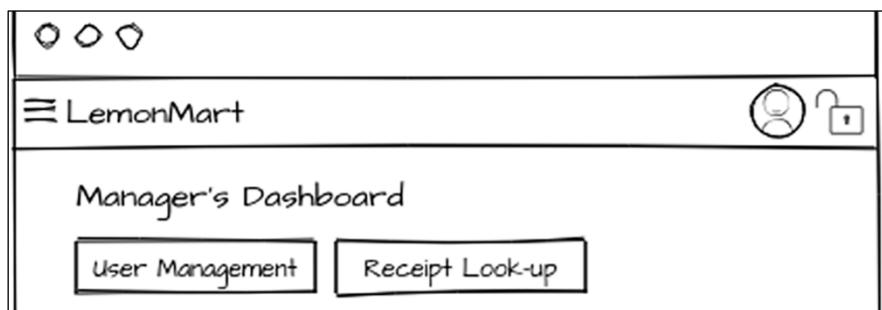
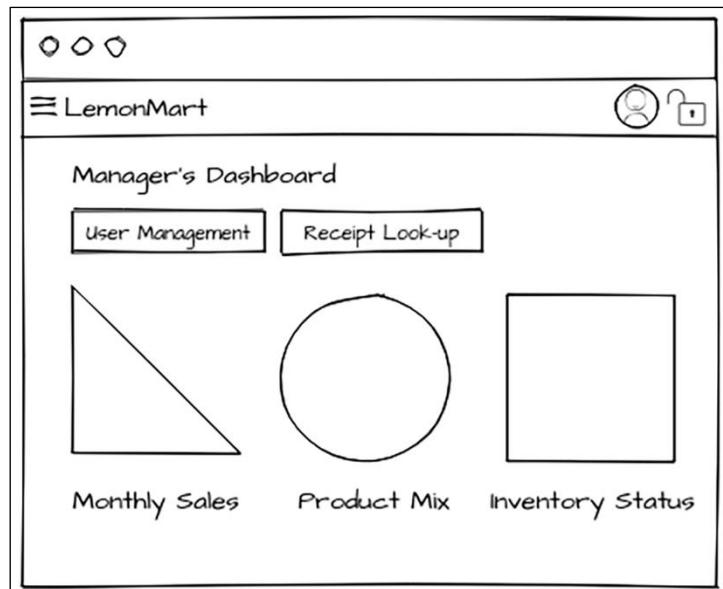


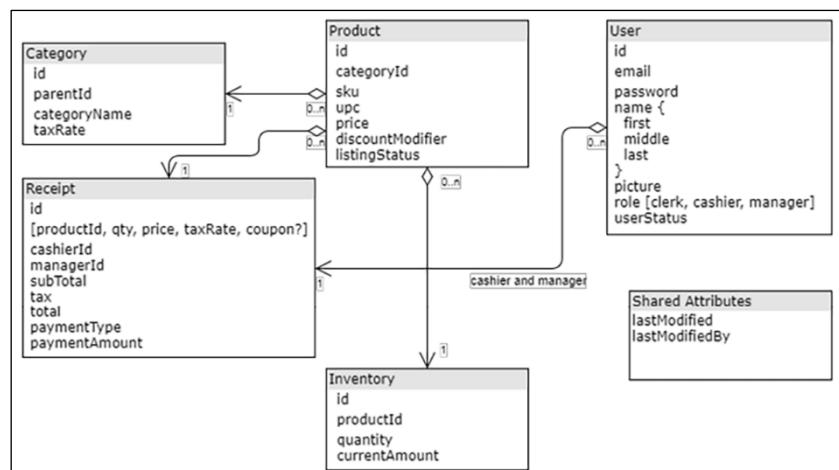
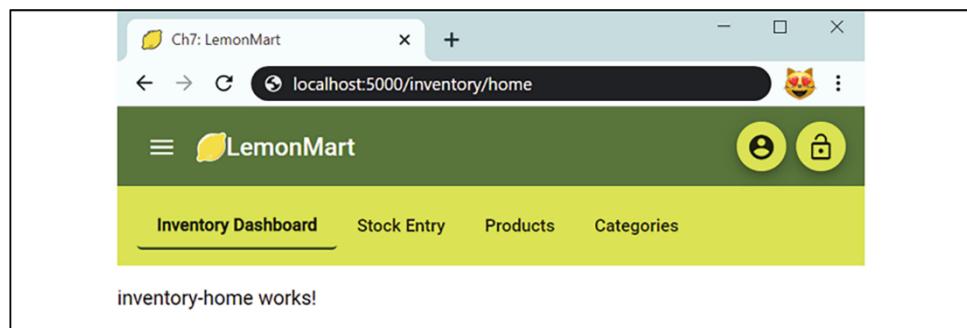
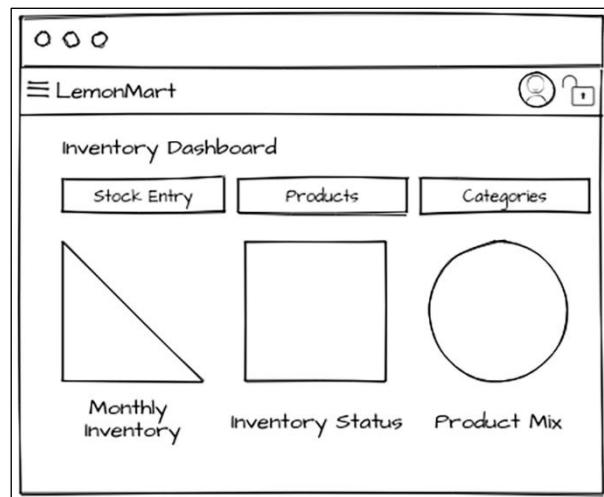
Chapter 4: Creating a Router-First Line-of-Business App



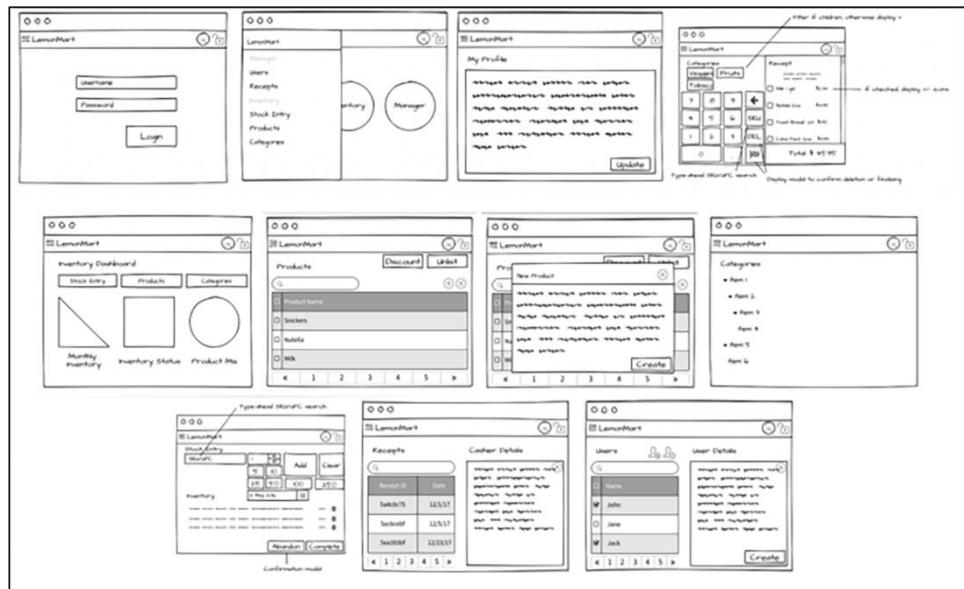


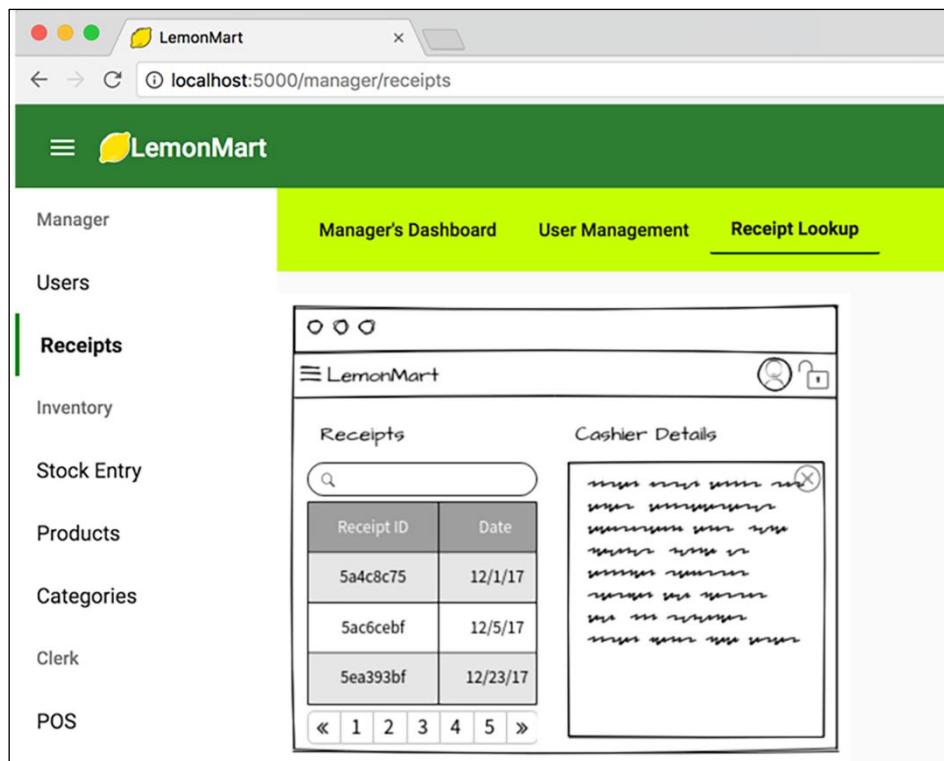




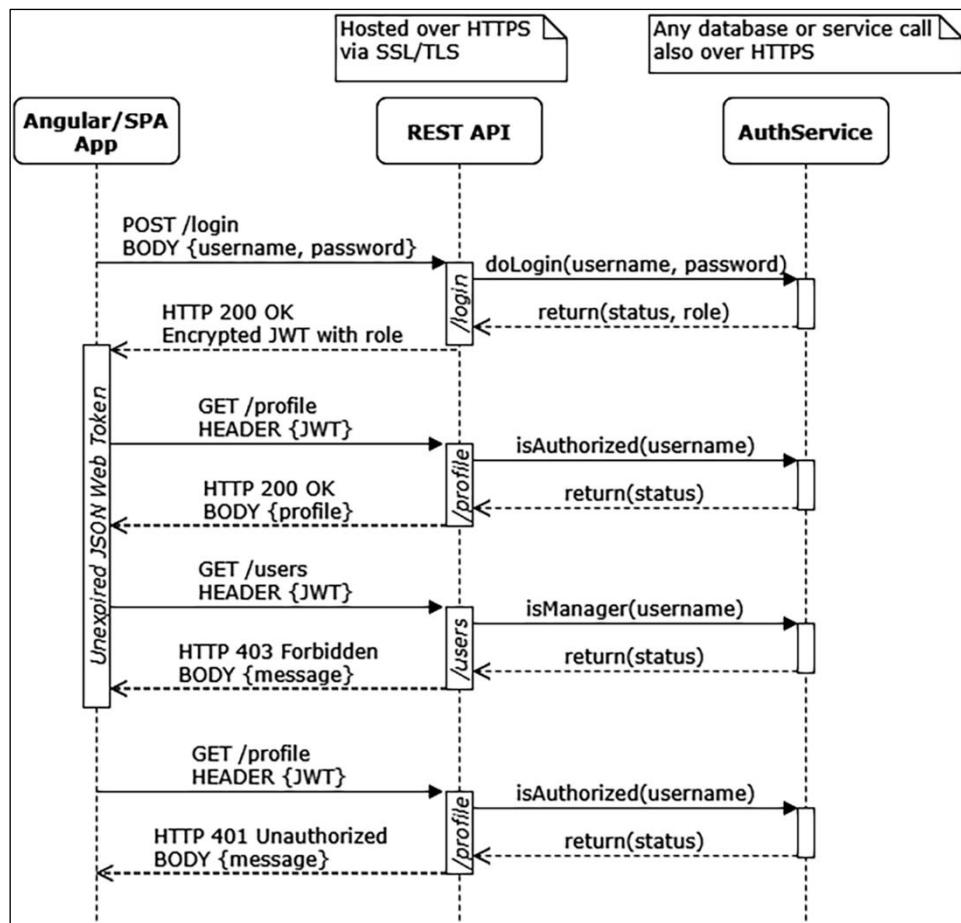


1

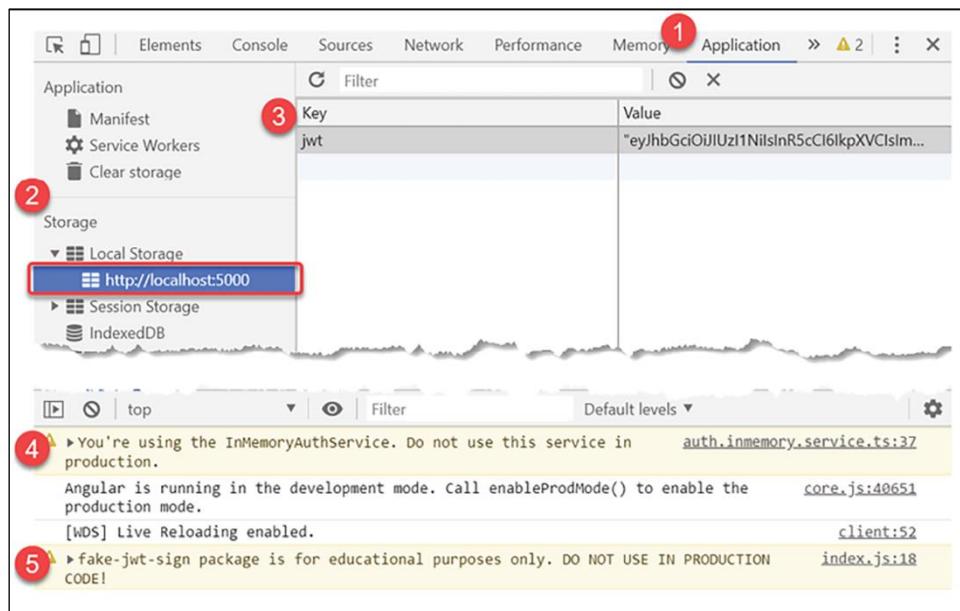
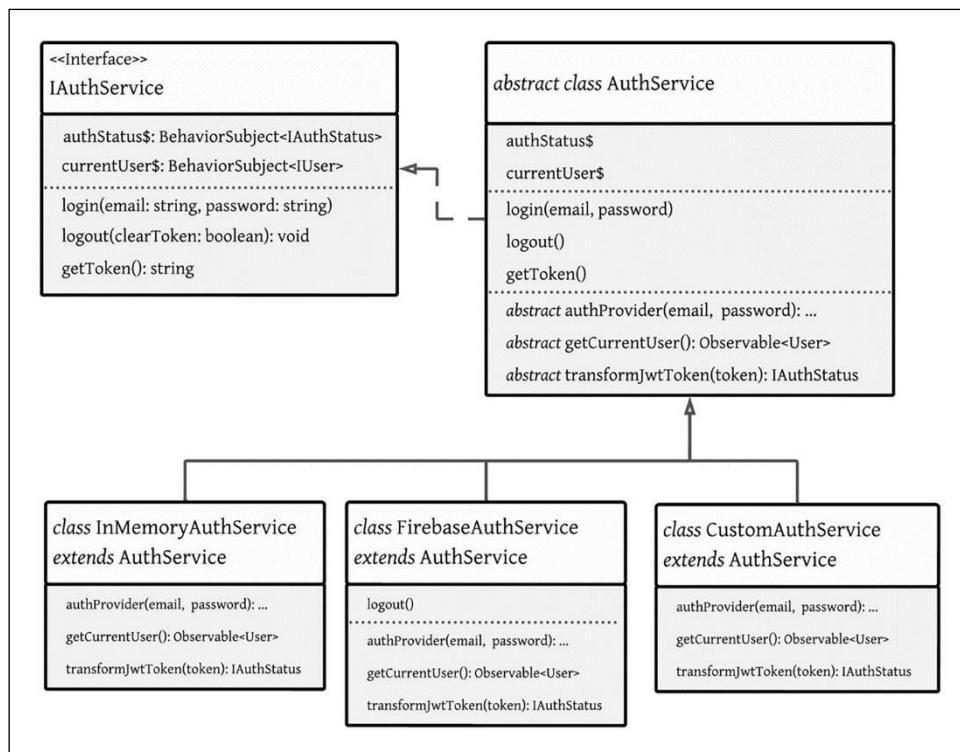




Chapter 5: Designing Authentication and Authorization



User
_id
email
name
picture
role
userStatus
dateOfBirth
level
address
phones



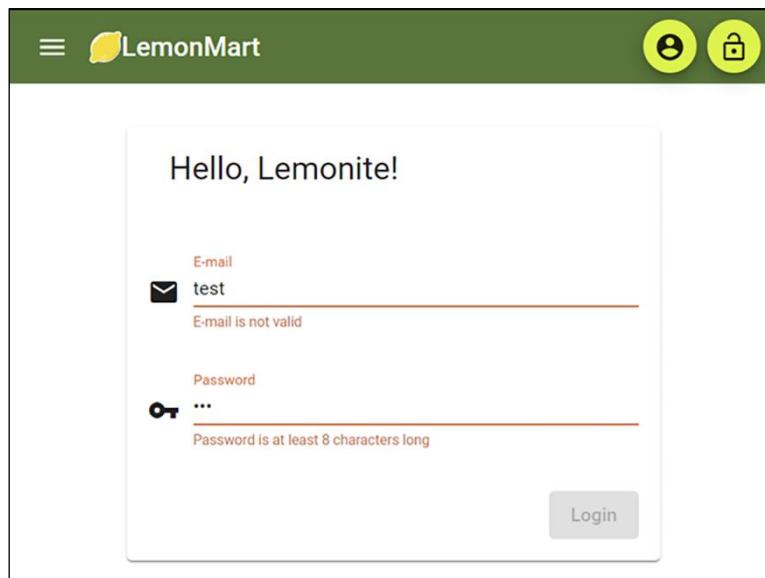
1 Network

2 XHR

3 lemon.svg

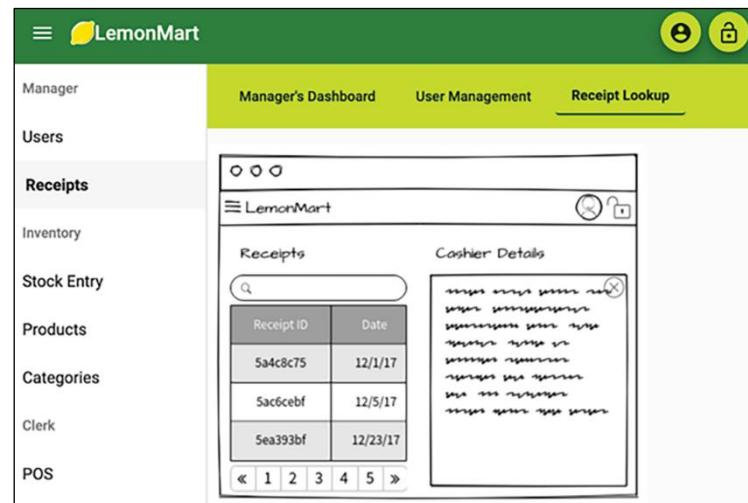
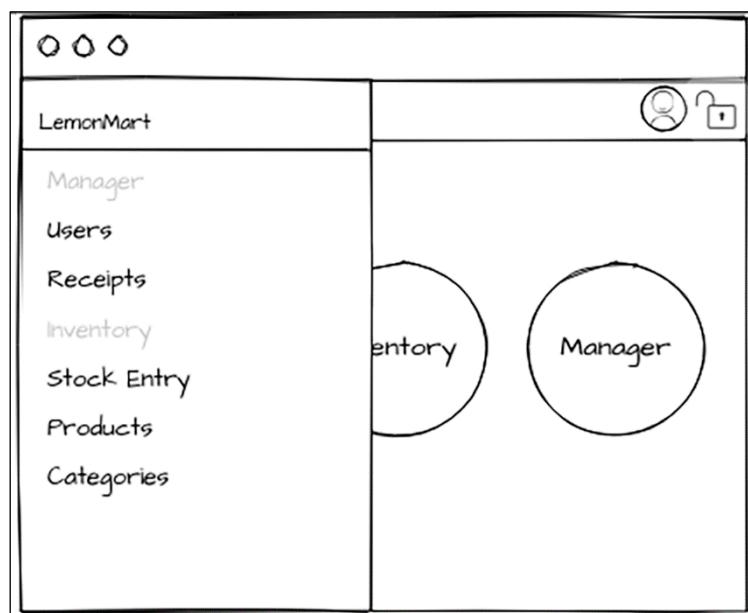
4 Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpxVCIsImV4cGlyZXNjbiI6IjFoIwiYWxn3JpdGhtIjoibm9uZSJ9.eyJpc0F1dGhbnRpY2F0ZWQiOnRydWUsInVZZXJJZCI6IjVkyTAxNzUxZGEyn2NjNDYyZDI2NTkxMyIsInVZZXJSb2xIjoibWFuYWhlcij9.SKgcjjCOMc1asK2AKm_L2XRhQ75R2P1oj8ck6u-XjT8

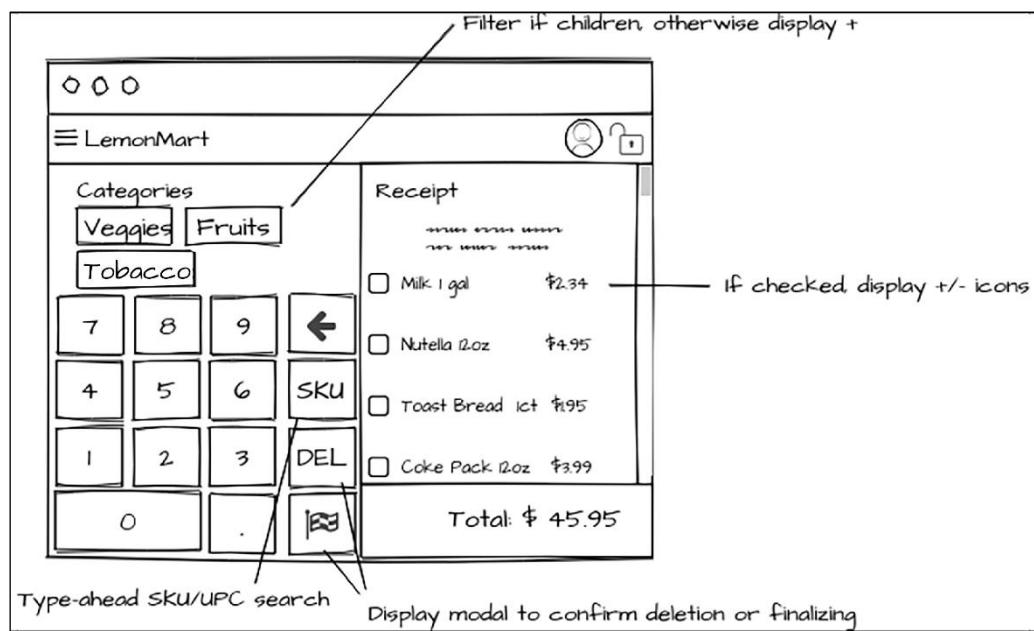
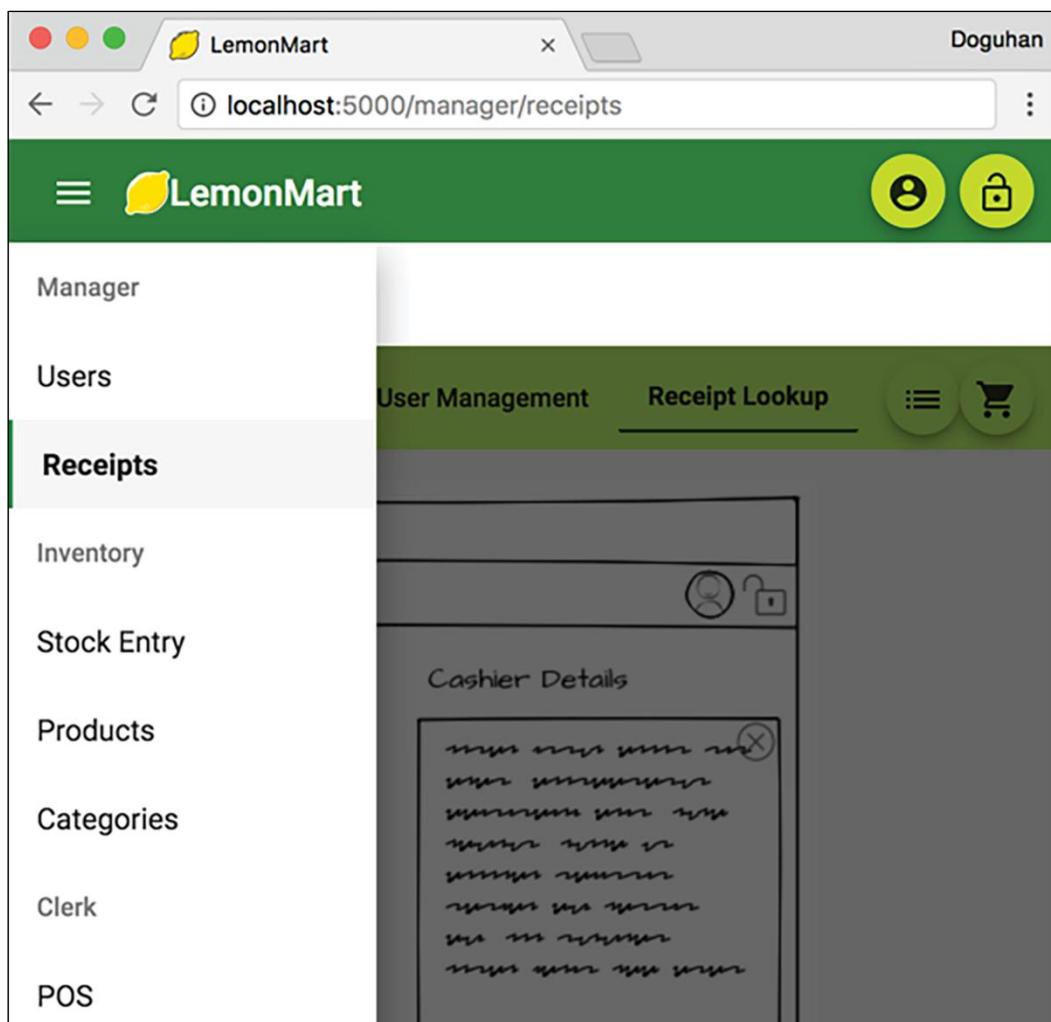
Chapter 6: Implementing Role-Based Navigation

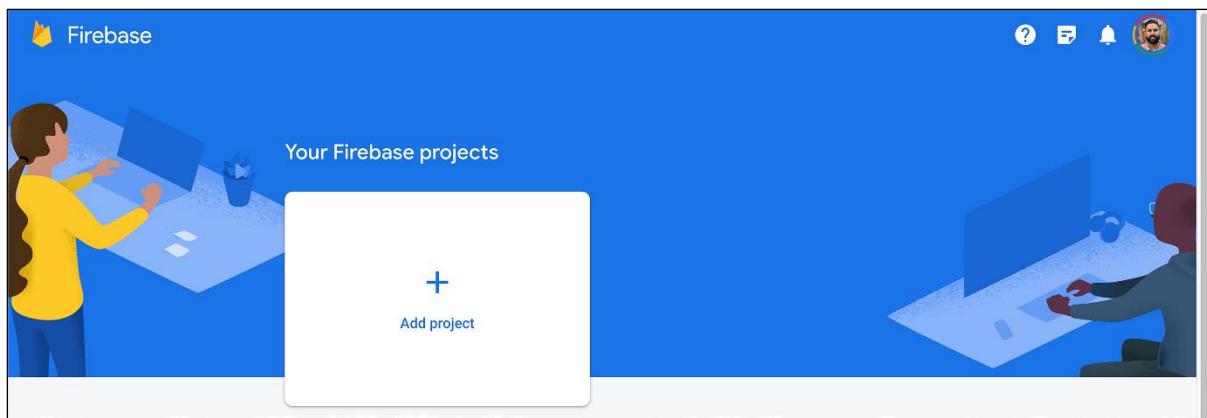


Welcome Doguhan Ulucal! Role: manager

Close







This screenshot shows the 'Project Overview' page for a project named 'lemon-mart'. A red circle with the number '1' is on the 'Project Overview' tab in the top navigation bar. A red circle with the number '2' is on the project name 'lemon-mart'. The main content area features a large blue background with the text 'Get started by adding Firebase to your app' and several developer-related icons (iOS+, Android, JavaScript, React Native, and Java). Below this is a call-to-action button labeled 'Add an app to get started'. The left sidebar contains a dark navigation menu with categories like 'Build', 'Release & Monitor', 'Analytics', 'Engage', and 'All products'. A red circle with the number '3' is on the 'JavaScript' icon in the developer tools section.

This screenshot shows the 'Authentication' settings page for the 'lemon-mart' project. A red circle with the number '1' is on the 'Authentication' item in the 'Build' section of the sidebar. A red circle with the number '2' is on the 'Sign-in method' tab in the top navigation bar. The main content area displays a 'Sign-in providers' section with two options: 'Email/Password' and 'Email link (passwordless sign-in)'. Each option has an 'Enable' toggle switch (red circles with numbers 3 and 4 respectively) and a 'Save' button (red circle with number 5). The 'Email/Password' provider is described with text about email address verification and password recovery primitives, and a 'Learn more' link.

lemon-mart ▾

?

F

Bell

Profile picture

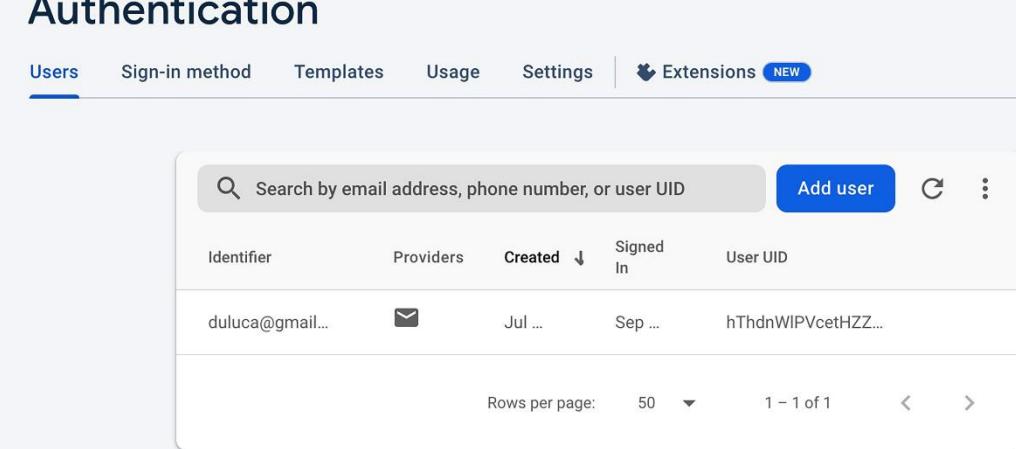
Authentication

Users Sign-in method Templates Usage Settings Extensions NEW

Search by email address, phone number, or user UID Add user C :

Identifier	Providers	Created ↓	Signed In	User UID
duluca@gmail...	✉	Jul ...	Sep ...	hThdnWIPVcetHZZ...

Rows per page: 50 ▾ 1 – 1 of 1 < >



The screenshot shows the Firebase Authentication console for a project named 'lemon-mart'. The 'Users' tab is selected. A search bar at the top allows searching by email, phone number, or user UID. A blue 'Add user' button is visible. Below the search bar is a table with columns: Identifier, Providers, Created (sorted by date), Signed In, and User UID. One user is listed: 'duluca@gmail...' with a mail icon under Providers, created on 'Jul ...' and signed in on 'Sep ...', and a long User UID. At the bottom, there are pagination controls for rows per page (50) and a page indicator showing 1 – 1 of 1.

Chapter 7: Working with REST and GraphQL APIs

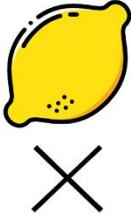
 LemonMart Server

Start the entire stack (database, backend, and frontend) by executing:

```
$ docker compose up
```

The frontend should be available at <http://localhost:8080>.

BROWSE ON 8080


DOCUMENTTS

LemonMart, the enterprise-ready Angular template project with RBAC pre-configured, is powered by DocumentTS, a lightweight TypeScript MongoDB ODM with standout convenience features. Get them both today!

INSTALL DOCUMENTTS **FORK LEMONMART**

REST API

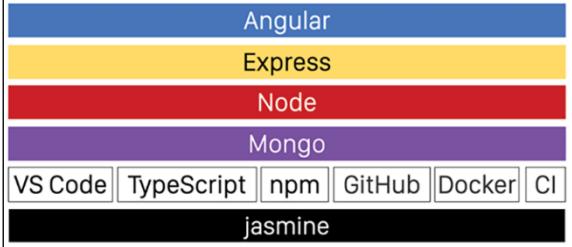
Interactive SwaggerUI documentation can be found at [/api-docs](#).
To create users, either use [/api-docs](#) or [Postman](#) (or similar) and POST the sample data.

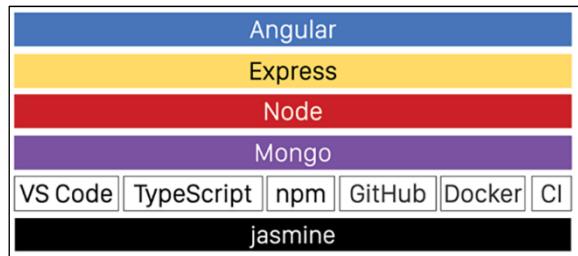
LAUNCH SWAGGER UI

REST

```
Method: POST http://localhost:3000/user
Headers:
  Content-Type application/json
  Authorization accessToken_from_login
Body: raw
{
  "email": "vader@bronies.com",
  "name": {
    "first": "Darth",
    "middle": "Mortimer",
    "last": "Vader"
  },
  "role": "Manager",
  "userStatus": true,
}
```

GraphQL





SOURCE CONTROL: GIT

▼ SOURCE CONTROL PROVIDERS

lemon-mart-server Git	master	
web-app Git	master	

The screenshot shows the API Platform interface with two main panes. On the left, the `swagger.yaml` file is being edited. The code defines an OpenAPI 3.1.0 schema for a service named `lemon-mart-server`. It includes definitions for servers (Local, Staging, and Production environments), components (security schemes like bearerAuth and responses for Unauthorized errors), and schemas for objects like `ServerMessage`, `Role`, and `PhoneType`. On the right, the `Swagger Preview` pane displays the API documentation for `lemon-mart-server` version 3.0.0, which is OAS3 compliant. The preview shows the `default` endpoint group with various operations like `POST /v1/login`, `GET /v1/auth/me`, `GET /v2/users`, `POST /v2/users` (with a description "Create a new `User`"), `GET /v2/users/{id}`, and `PUT /v2/users/{id}` (with a description "Updates an existing `User`"). A sidebar on the left contains icons for different API-related features.

```

server > swagger.yaml > {} info > version
  You, 30 seconds ago | 1 author (You) | openapi.json - A JSON schema for Open API 3.0.0
  1 openapi: 3.1.0
  2 info:
    title: lemon-mart-server
    description: Easy to learn and use full-stack TypeScript
    version: '3.0.0'
  3
  4 servers:
  5   - url: http://localhost:3000
    description: Local environment
  6   - url: https://mystagingserver.com
    description: Staging environment
  7   - url: https://myprodserver.com
    description: Production environment
  8
  9 components:
  10   securitySchemes:
  11     bearerAuth:
  12       type: http
  13       scheme: bearer
  14       bearerFormat: JWT
  15   responses:
  16     UnauthorizedError:
  17       description: Unauthorized
  18       content:
  19         application/json:
  20           schema:
  21             $ref: '#/components/schemas/ServerMessage'
  22
  23 schemas:
  24   ServerMessage:
  25     type: object
  26     properties:
  27       message:
  28         type: string
  29   Role:
  30     type: string
  31     enum: [none, clerk, cashier, manager]
  32   PhoneType:
  33     type: string
  34     enum: [none, mobile, home, work]
  35   Phone:
  36     type: object
  37     properties:
  38       type:
  39         $ref: '#/components/schemas/PhoneType'
  40       digits:
  41         type: string
  42
  43
  44
  45
  46
  47

```

SANDBOX http://localhost:3000/gra... Publish

Me Login +

Operation Collections

Saved operations for your Sandbox, across all endpoints

Select a graph/variant or sandbox to see its collections

Sandbox

Only visible to you in your Sandbox + Create collection

My Collection

- Me
- Login
- CreateUser

Operation

```
query Me {  
  me {  
    address {  
      line1  
      line2  
      city  
      state  
      zip  
    }  
    dateOfBirth  
    email  
    id  
    level  
    name {  
      first  
      middle  
      last  
    }  
    phones {  
      digits  
      type  
    }  
    picture  
  }  
}
```

Variables Headers Script

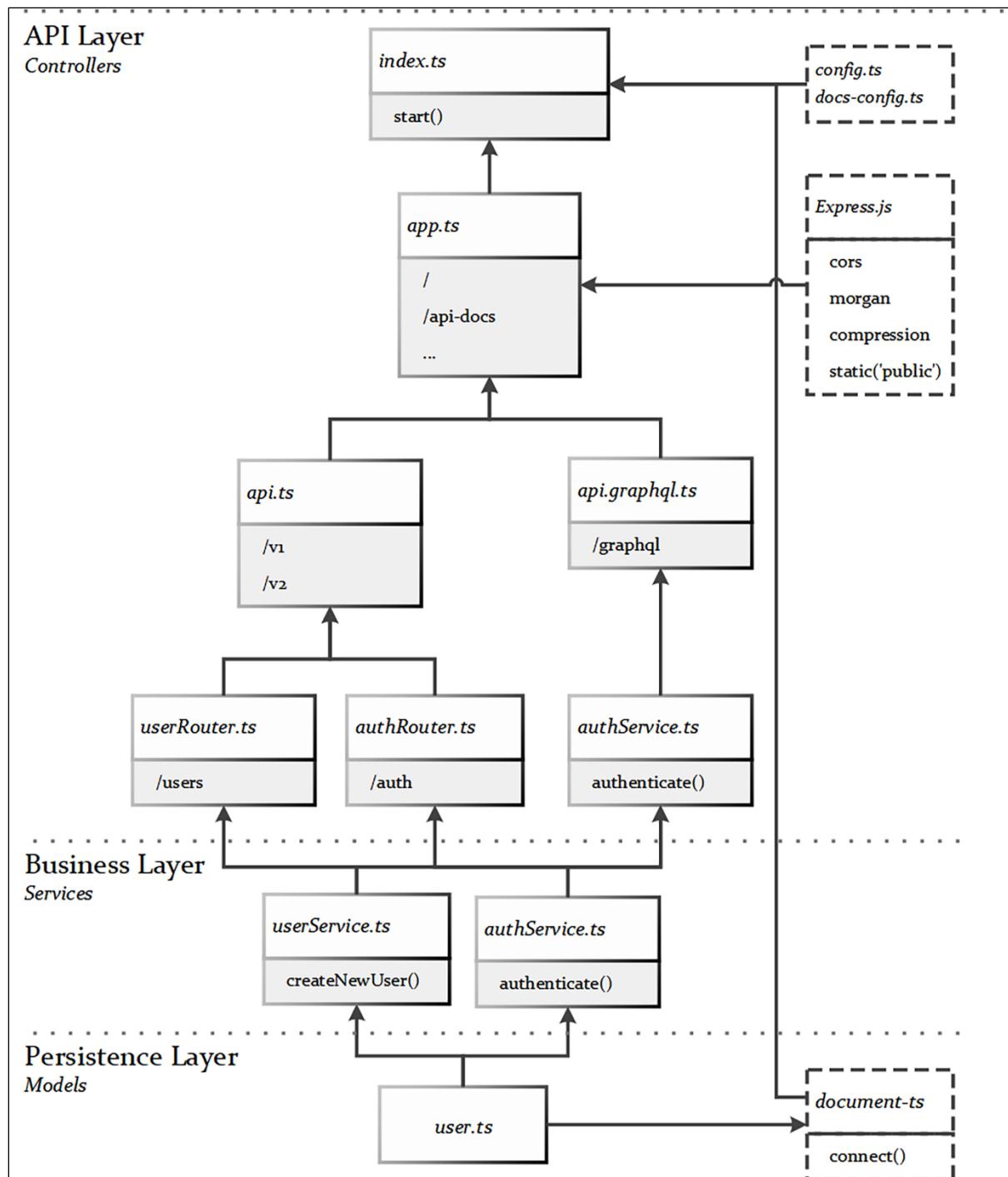
Authorization eyJhbGciOiJIUzUxMiI

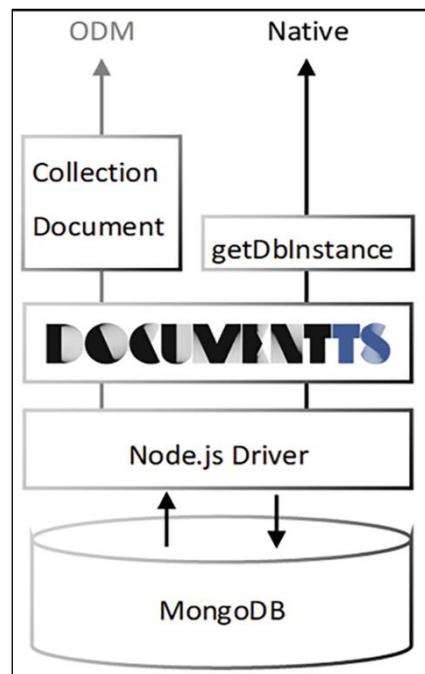
Response STATUS 200 | 33.0ms | 451B

```
{"data": {  
  "me": {  
    "address": {  
      "line1": "101 Sesame St.",  
      "line2": null,  
      "city": "Bethesda",  
      "state": "Maryland",  
      "zip": "20810"  
    },  
    "dateOfBirth": "1980-02-01T05:00:00.000Z",  
    "email": "dulucag@gmail.com",  
    "id": "5da01751da27cc462d265913",  
    "level": 2,  
    "name": {  
      "first": "Doguhan",  
      "middle": null,  
      "last": "Uluda"  
    },  
    "phones": [  
      {  
        "digits": "5555550717",  
        "type": "Mobile"  
      }  
    ],  
    "picture": "https://secure.gravatar.com/avatar/7cba9af5ca78d97f3c689f8ce6c985",  
    "role": "Manager",  
    "userStatus": true  
  }  
}
```

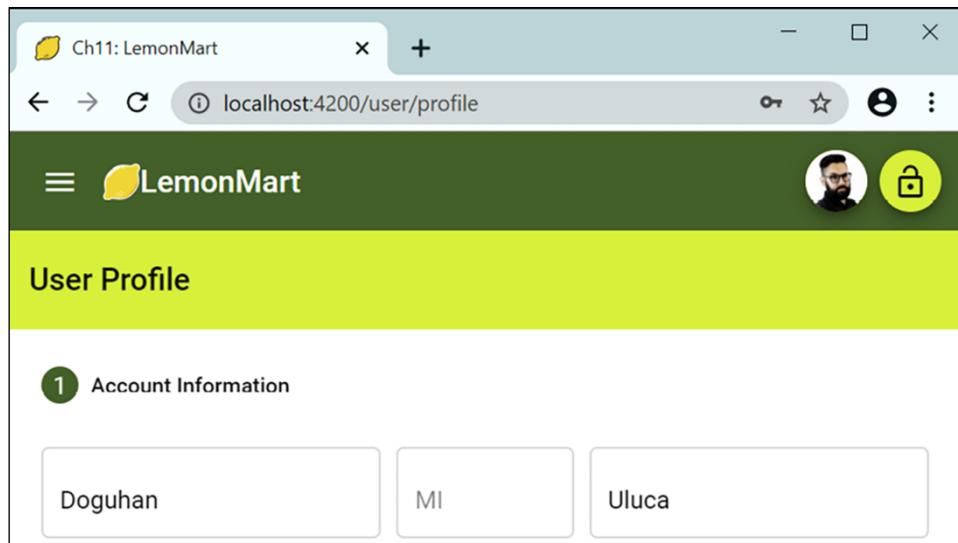
New header Set shared headers

The screenshot shows the GraphQL playground interface with a successful query execution. The query `query Me { me { address { line1, line2, city, state, zip }, dateOfBirth, email, id, level, name { first, middle, last }, phones { digits, type }, picture } }` is run against the 'Me' endpoint. The response is a JSON object containing the user's details, including address, date of birth, email, ID, level, name (first, middle, last), phones (digits, type), and picture URL. The status is 200, and the response time is 33.0ms.





Chapter 8: Recipes - Reusability, Forms, and Caching



Ch11: LemonMart

localhost:4200/user/profile

User Profile

1 Account Information

Doguhan

MI

Uluca

LemonMart

User Profile

1 Account Information 2 Contact Information 3 Review

First Name: Doguhan

Middle Initial: MI

Last Name: Uluca

Date of Birth: 1/31/1980

E-mail: duluca@gmail.com

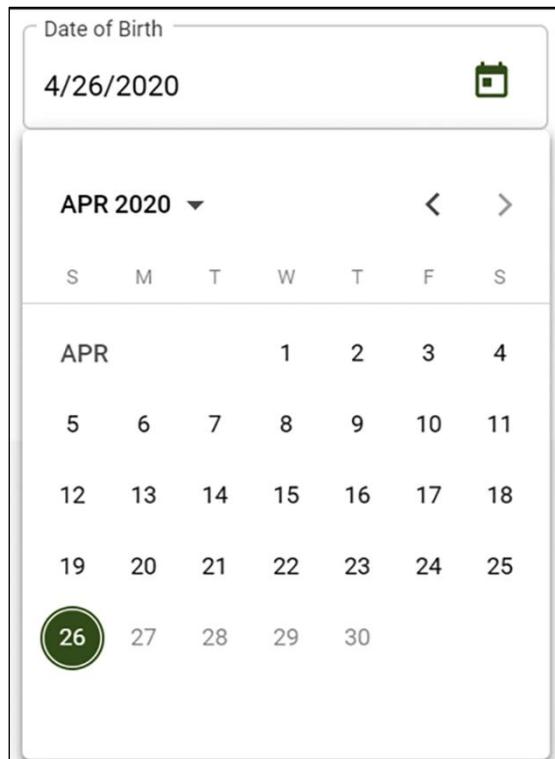
40 year(s) old

Only your manager can update your e-mail.

Role: None Cashier Clerk Manager

Select the Limoncu level:

Next



Date of Birth

1/31/1980

40 year(s) old

State —

V

Virginia

Virgin Islands

Vermont

Phone Number(s) + Add Phone

Type — Number —

Mobile 5555550717

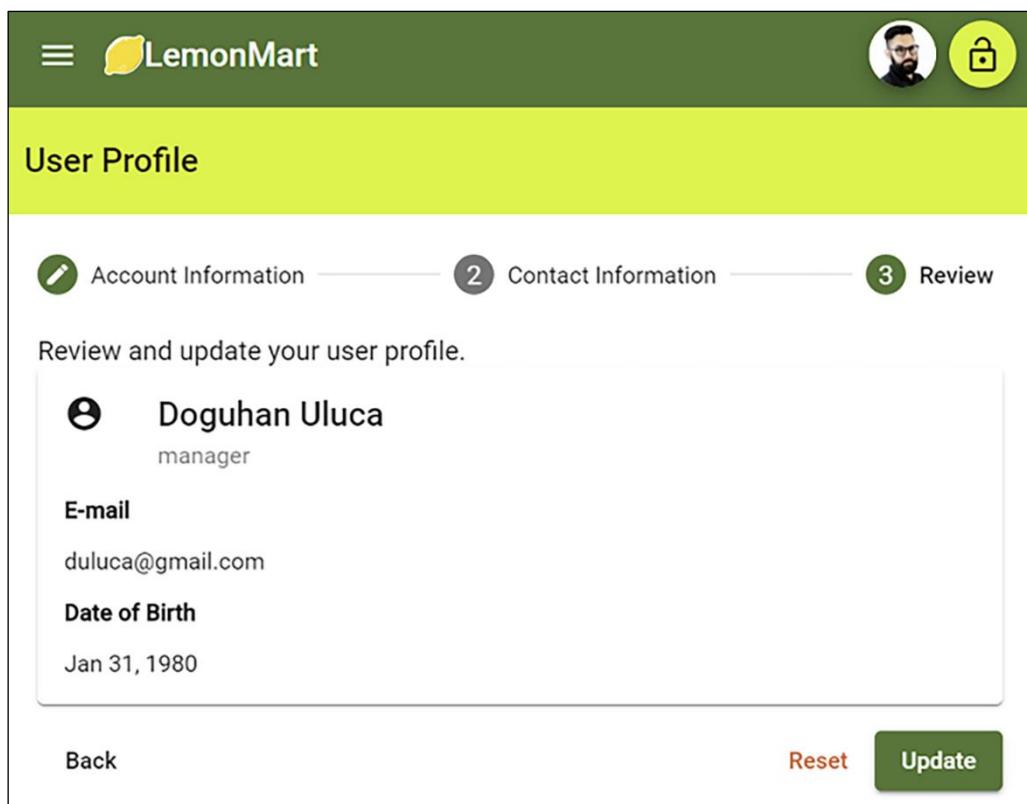
Type — Number —

None

Mobile

Home

Work



LemonMart

User Profile

1 Account Information ————— 2 Contact Information ————— 3 Review

Review and update your user profile.

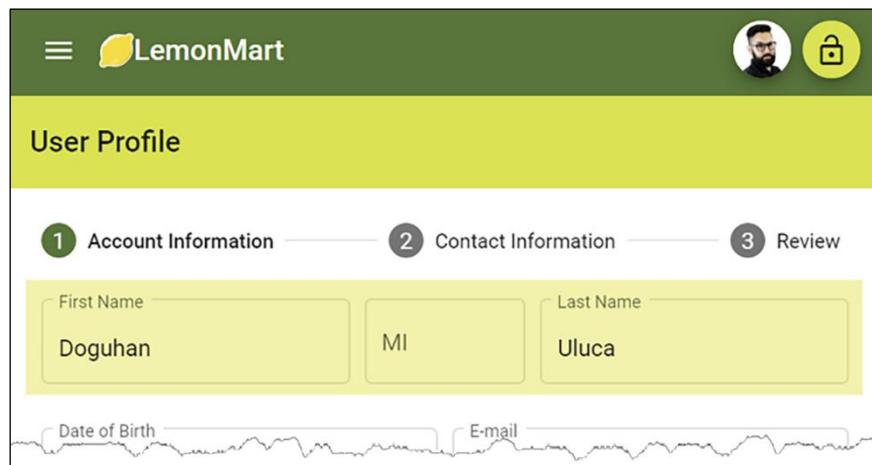
Doguhan Uluca
manager

E-mail
duluca@gmail.com

Date of Birth
Jan 31, 1980

Back Reset Update

This screen shows a user's profile information. At the top, there are three tabs: 'Account Information' (selected), 'Contact Information', and 'Review'. Below the tabs, a message says 'Review and update your user profile.' A large section displays the user's name ('Doguhan Uluca') and title ('manager'). Underneath, there are fields for 'E-mail' (duluca@gmail.com) and 'Date of Birth' (Jan 31, 1980). At the bottom, there are 'Back', 'Reset', and 'Update' buttons.



LemonMart

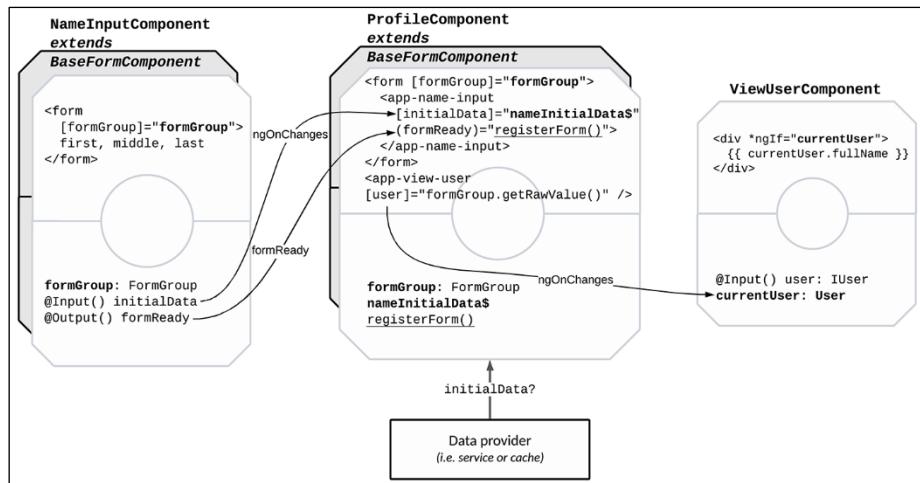
User Profile

1 Account Information ————— 2 Contact Information ————— 3 Review

First Name: Doguhan MI: Last Name: Uluca

Date of Birth E-mail

This screen allows editing of user profile information. It features the same navigation and tabs as the previous screen. The 'Account Information' tab is selected. The user's first name is 'Doguhan', MI is empty, and last name is 'Uluca'. Below these fields are input fields for 'Date of Birth' and 'E-mail'.



Phone Number(s) + Add Phone

Type	Number
Mobile ▾	+1(555) 555-0717
Type	Number
	+1(____) ____-

Select the Limoncu level: *neither a lemon or a lime*

 **password**

Minimum 8 characters

Login

Authentication Mode: *In Memory*

Fake Login Info ^

Use any 8 character string as password		
Role	E-mail	
None	Any @test.com email	Fill
Clerk	clerk@test.com	Fill
Cashier	cashier@test.com	Fill
Manager	manager@test.com	Fill

The screenshot shows the LemonMart User Profile page with several numbered annotations:

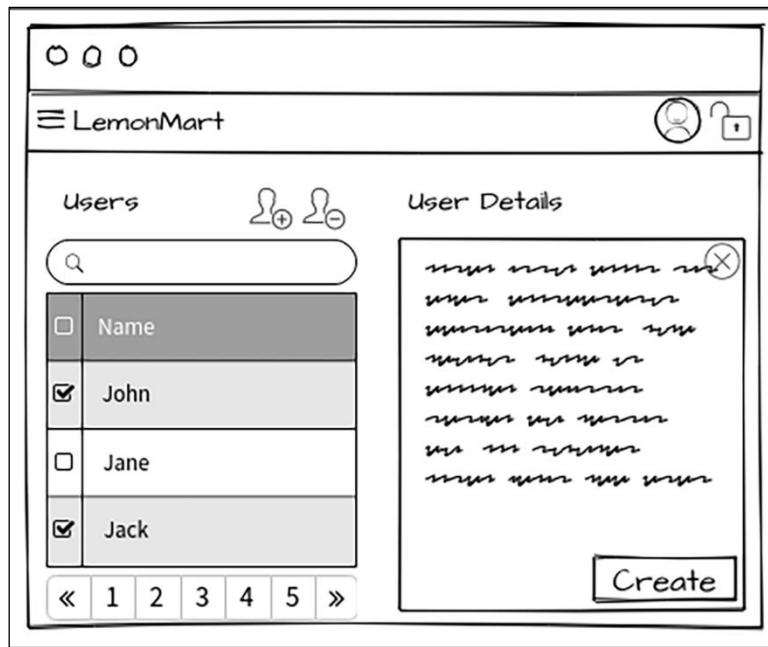
- 1**: A red circle highlights the "Network" tab in the browser's developer tools header.
- 2**: A red circle highlights the "Offline" button in the developer tools header.
- 3**: A red circle highlights the "Review" button in the top navigation bar of the profile page.
- 4**: A red circle highlights the error message "An unknown error has occurred" below the "Update" button.
- 5**: A red circle highlights a specific network request in the developer tools Network tab, showing it failed with a status of 0 B and 9 ms.

The screenshot shows the LemonMart User Profile page with a modal dialog open, containing the following numbered annotations:

- 1**: A red circle highlights the "Last Name" input field, which contains "Cache".
- 2**: A red circle highlights the "Close" button on the modal dialog.
- 3**: A red circle highlights the "Review" button in the top navigation bar of the profile page.

The modal dialog displays the message "Loaded data from cache".

Chapter 9: Recipes - Master/Detail, Data Tables, and NgRx



Name ↑	E-mail	Role	View Details
Bugs Bunny	bugs@bunnylove.com	clerk	
Doguhan Uluca	duluca@gmail.com	manager	

Developer Tools - http://localhost:5000/manager/users

Elements Console Sources Network Performance Memory Application Security Audits Augury

```

view-user.components X
[{"id": "1", "name": "John Doe", "email": "john.doe@example.com", "role": "clerk", "picture": "https://api.adorable.io/avatars/285/abott.png"}, {"id": "2", "name": "Jane Smith", "email": "jane.smith@example.com", "role": "manager", "picture": "https://api.adorable.io/avatars/285/abott.png"}, {"id": "3", "name": "Jack Black", "email": "jack.black@example.com", "role": "clerk", "picture": "https://api.adorable.io/avatars/285/abott.png"}]
31  },
32  })
33  export class ViewUserComponent implements OnInit {
34  @Input() user: IUser;
35  currentUser = new User();
36
37  get editMode() {
38    return !this.user;
39  }
40
41  constructor(private route: ActivatedRoute) {}
42
43  ngOnInit() {
44    if (this.user) {
45      this.currentUser = User.BuildUser(this.user);
46    }
47
48    if (this.route.snapshot && this.route.snapshot.data) {
49      this.currentUser = User.BuildUser(this.route.snapshot.data['user']);
50      this.currentUser.dateOfBirth = Date.now() // for data mocking purposes only
51    }
52  }
53}

```

Line 49, Column 17 (source mapped from view-user.component.ts)

Object

- ▶ user: {id: "Sample text", email: "Sample text", name: "Sample text", picture: "Sample text", role: "clerk", ...}
- ▶ __proto__: Object

used on breakpoint

tch
| Stack
|>ViewUserComponent.ngOnInit
|>view-user.component.ts:50
|>checkAndUpdateDirectiveInline
core.js:12365
|>checkAndUpdateNodeInline
core.js:13889
|>checkAndUpdateNode
core.js:13832
|>bugCheckAndUpdateNode
core.js:14725
debugCheckDirectivesFn
core.js:14666
(anonymous)
ViewUserComponent...ory.js? [sm]:1
debugUpdateDirectives
core.js:14651

Console

Angular is running in the development mode. Call enableProdMode() to enable the production mode.

```

> this.currentUser
< ▶ User {id: "Sample text", email: "Sample text", name: "Sample text", picture: "Sample text", role: "clerk", ...}
>

```

core.js:3683

LemonMart

Manager

Manager's Dashboard User Management Receipt Lookup

Users

Receipts

Inventory

Stock Entry

Products

Categories

Clerk

POS

Search

Search by e-mail or name

Name ↑	E-mail	Role
Ali Smith	efg@gmail.com	clerk
Bugs Bunny	bugs@bunnylove.com	clerk
Doguhan Uluca	duluca@gmail.com	manager
Justin Thunderclaps	thunderdome@hotmail.com	clerk
Obladi Oblada	apple@smith.com	clerk

Items per page: 5 1 – 5 of 8

Name ↑	E-mail	Role
Ali Smith	efg@gmail.com	clerk
Bugs Bunny	bugs@bunnylove.com	clerk
Doguhan Uluca	duluca@gmail.com	manager
Justin Thunderclaps	thunderdome@hotmail.com	clerk
Obladi Oblada	apple@smith.com	clerk

Items per page: 5 1 – 5 of 8

Doguhan Uluca manager

E-mail
duluca@gmail.com

Date of Birth
Feb 1, 1980

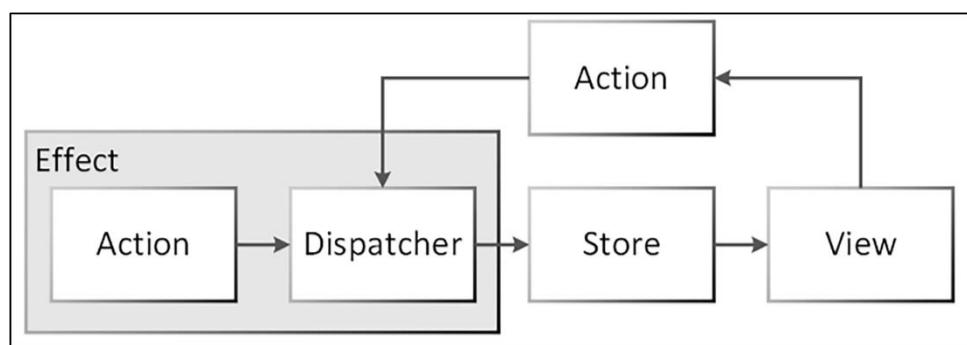
Name ↑	E-mail	Role	View Details
Ali Smith	efg@gmail.com	clerk	
Bugs Bunny	bugs@bunnylove.com	clerk	
Doguhan Uluca	duluca@gmail.com	manager	
Justin Thunderclaps	thunderdome@hotmail.com	clerk	
Obladi Oblada	apple@smith.com	clerk	

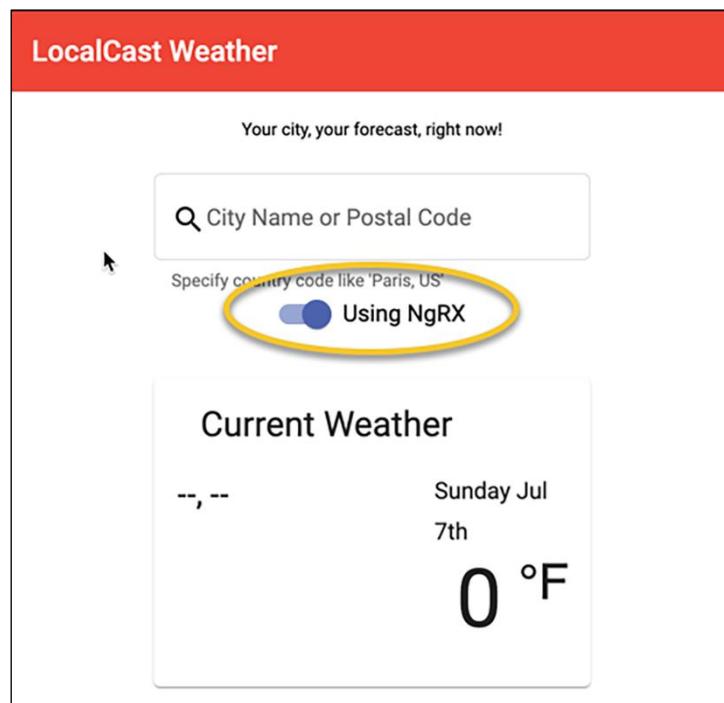
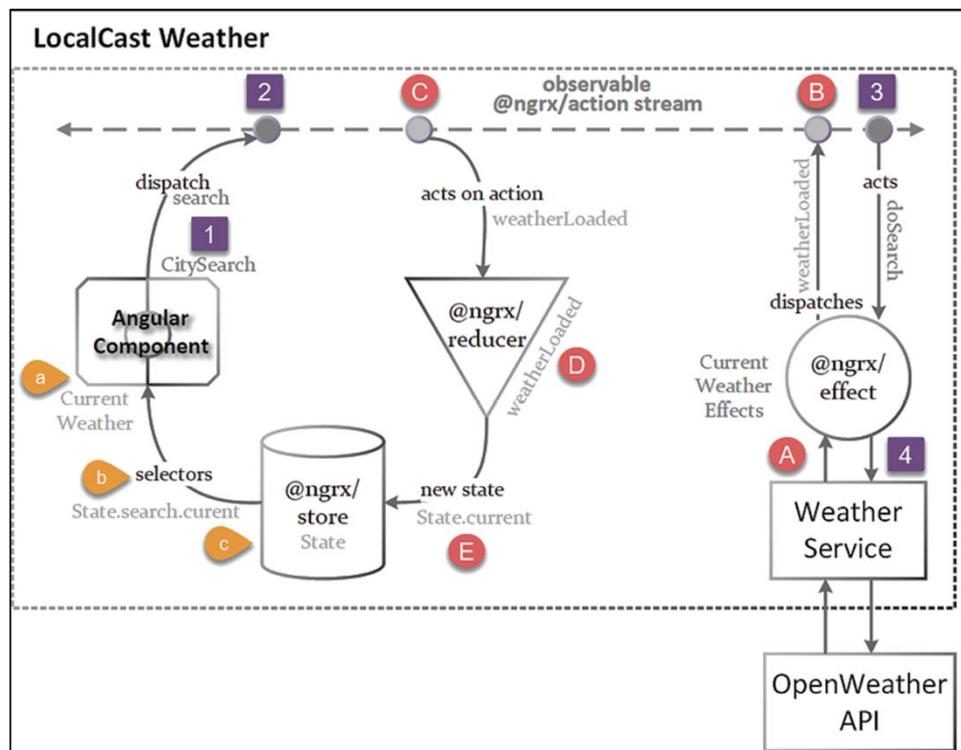
C Items per page: 5 1 – 5 of 8 < >

Bugs Bunny
 clerk

E-mail
 bugs@bunnylove.com

Date of Birth
 Jul 26, 1940





User Profile

1 Account Information 2 Contact Information 3 Review

First Name* MI Last Name*

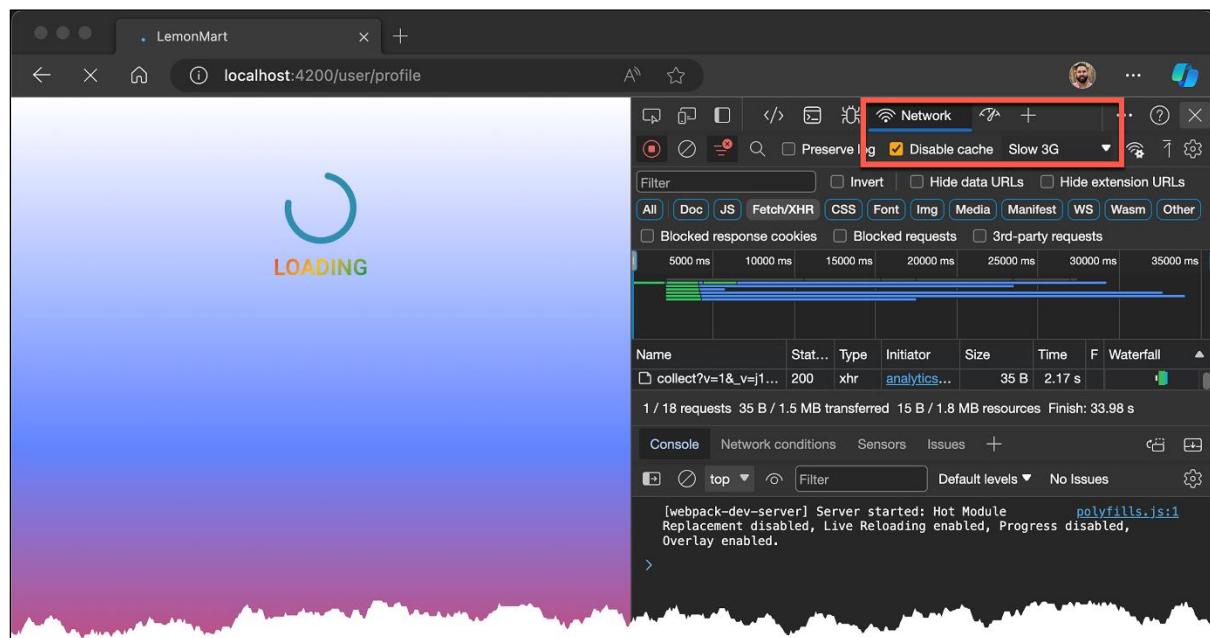
Date of Birth* E-mail*

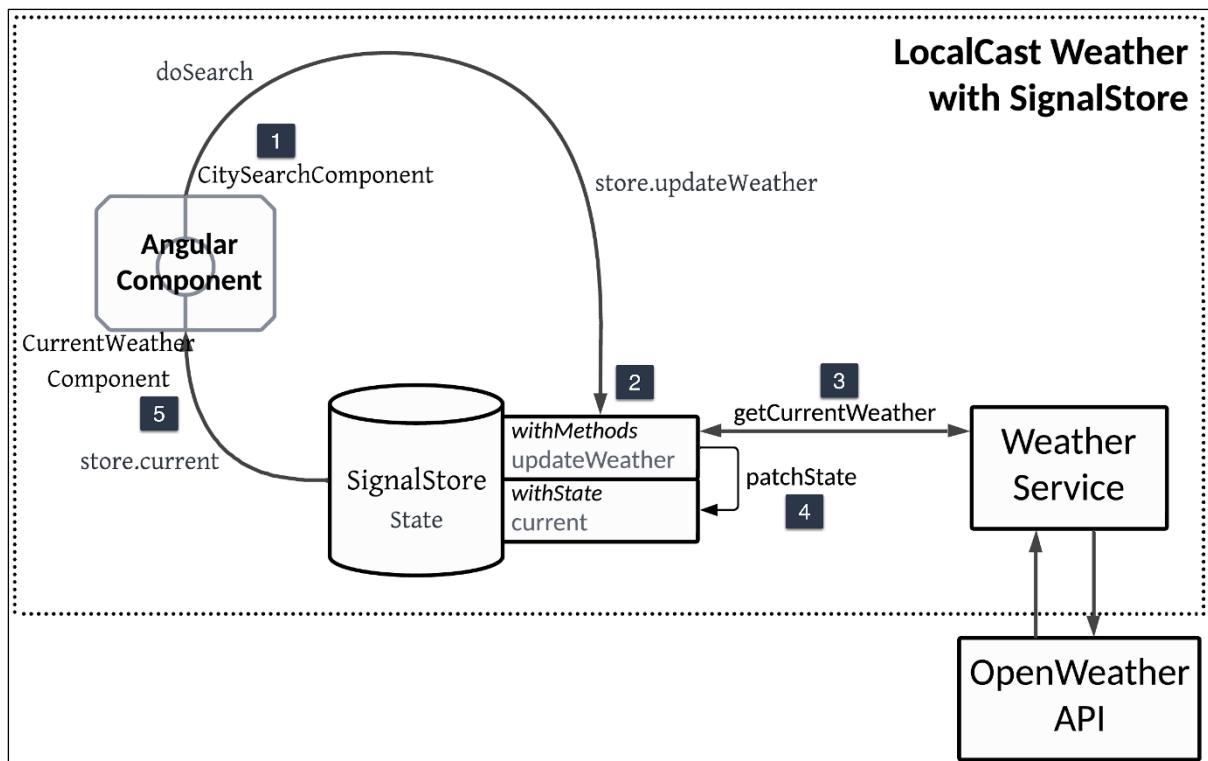
Only your manager can update your e-mail.

Role None Cashier Clerk Manager

Select the Limoncu level:

Demo Lazy Load Name **Next**

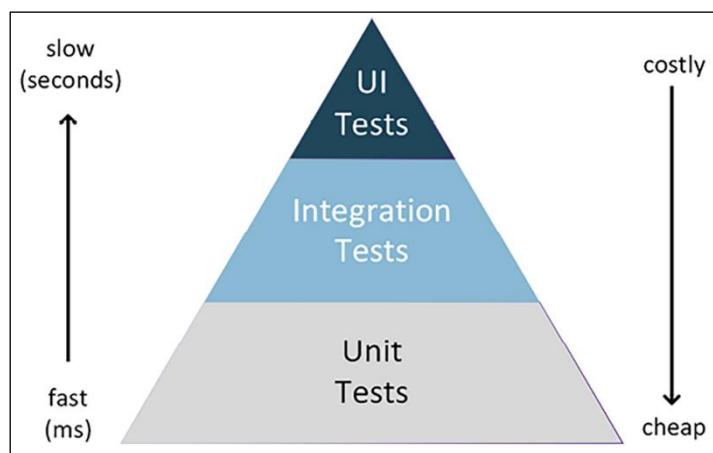


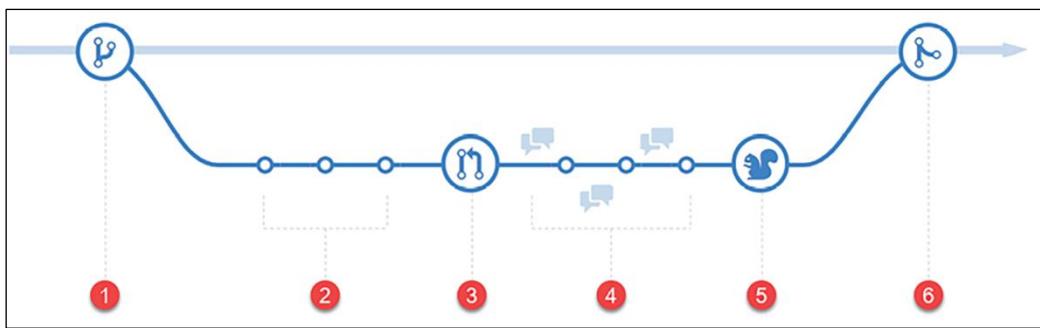


Chapter 10: Releasing to Production with CI/CD

--yolo

Skips cleanup and testing





duluca / local-weather-app

Code Issues 5 Pull requests 5 Discussions Actions Projects 1 ...

General Branch protection rules Add rule

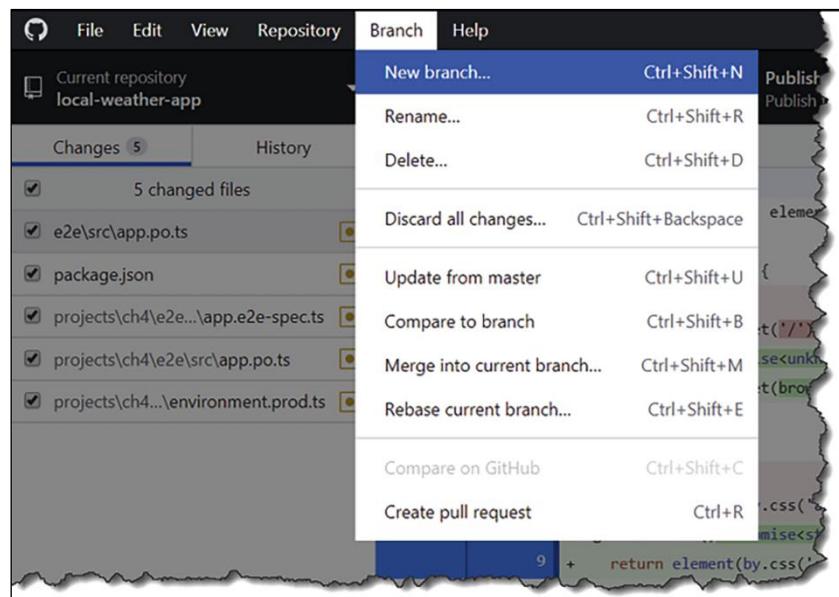
Access Collaborators main Currently applies to 1 branch Edit Delete

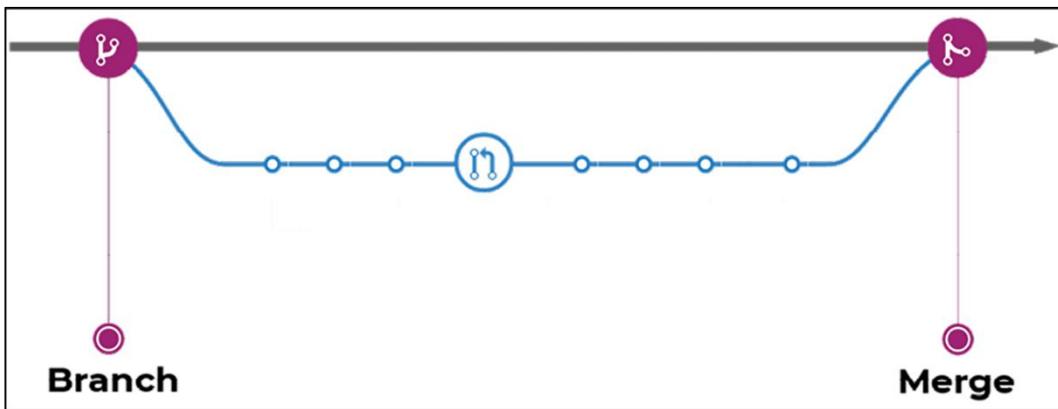
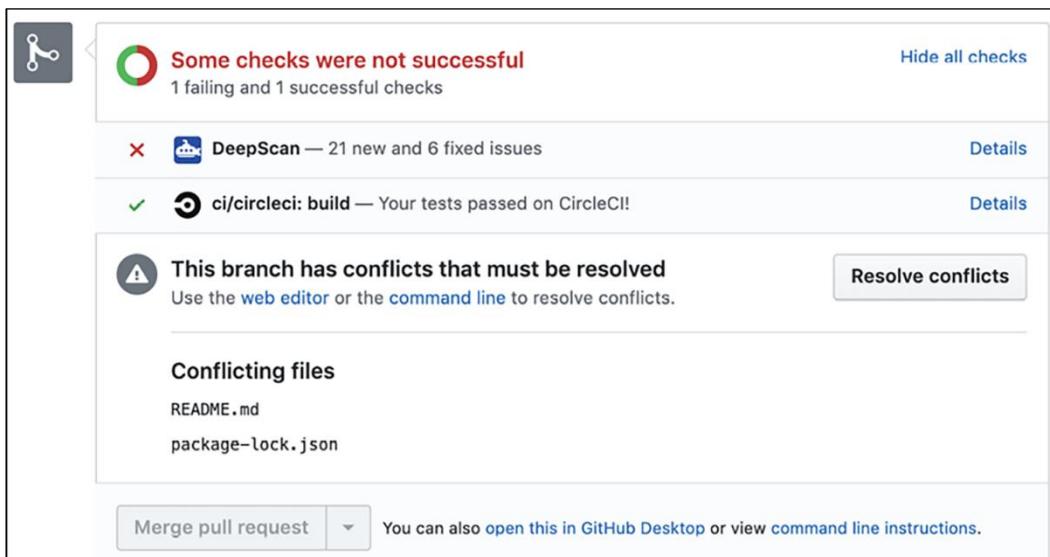
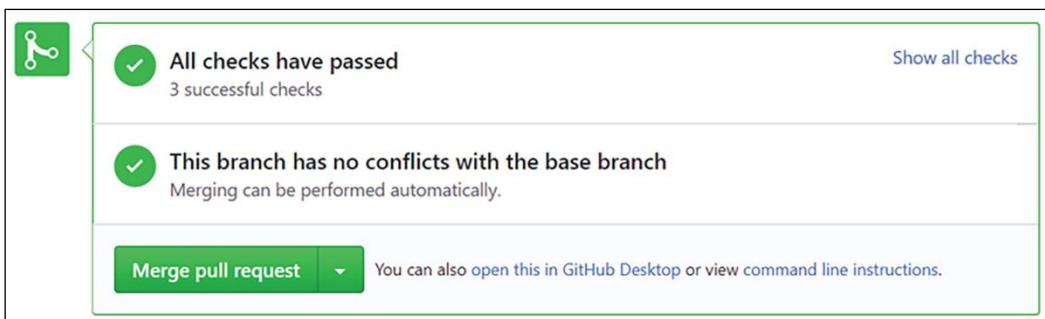
Moderation options

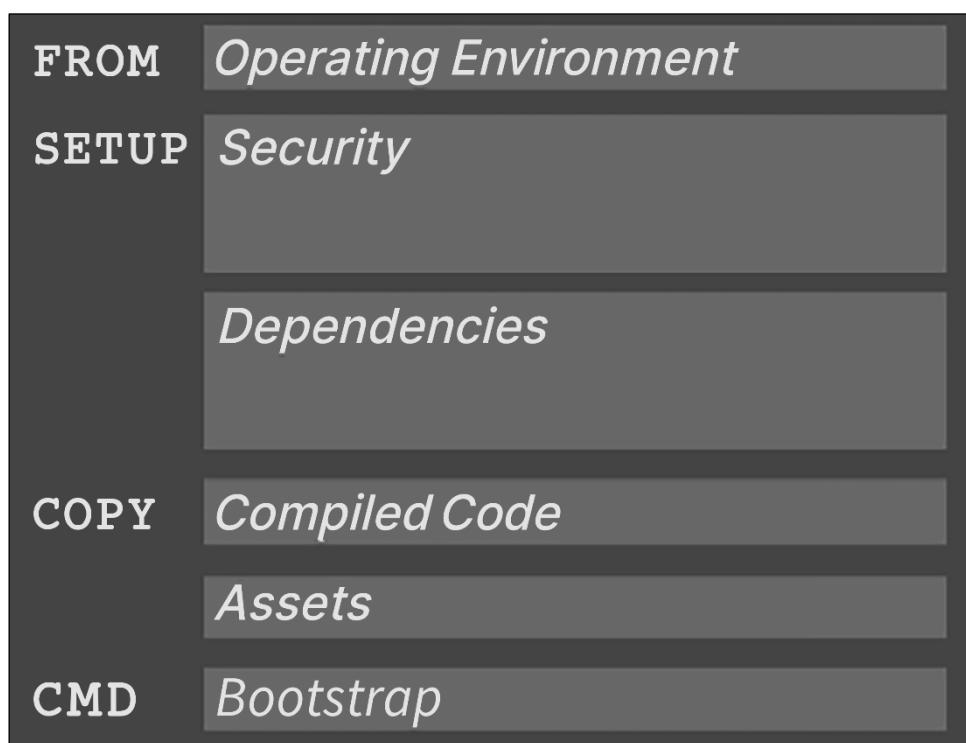
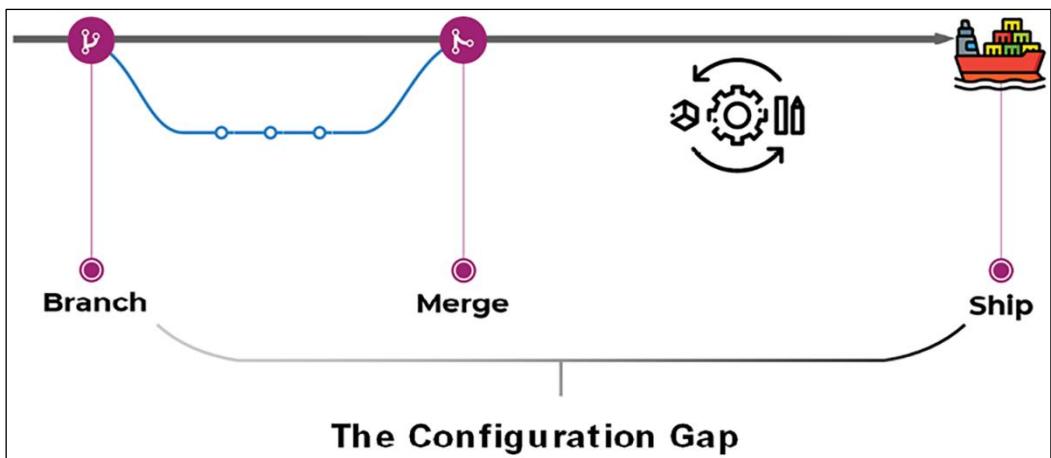
Code and automation

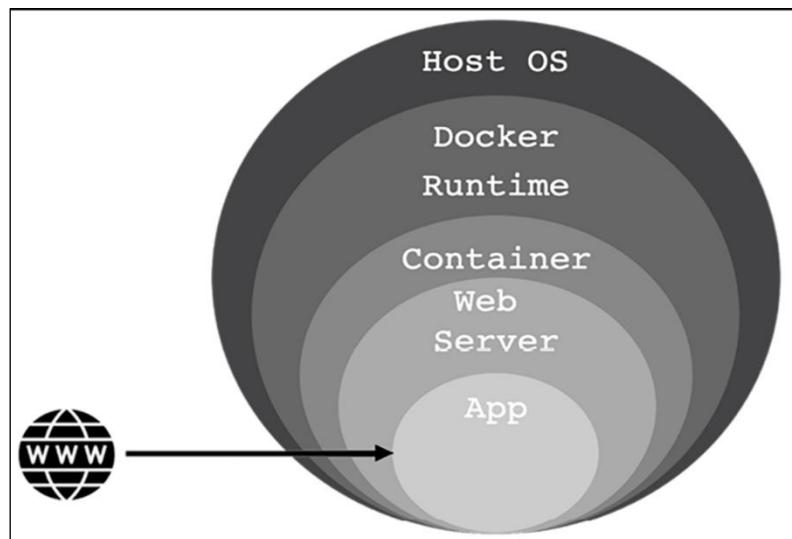
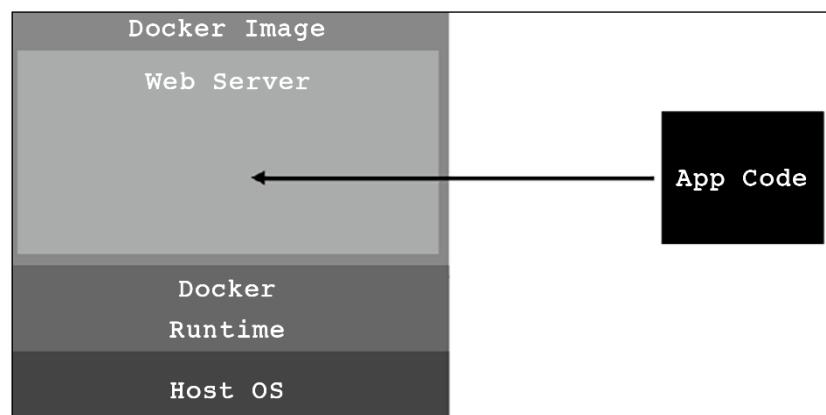
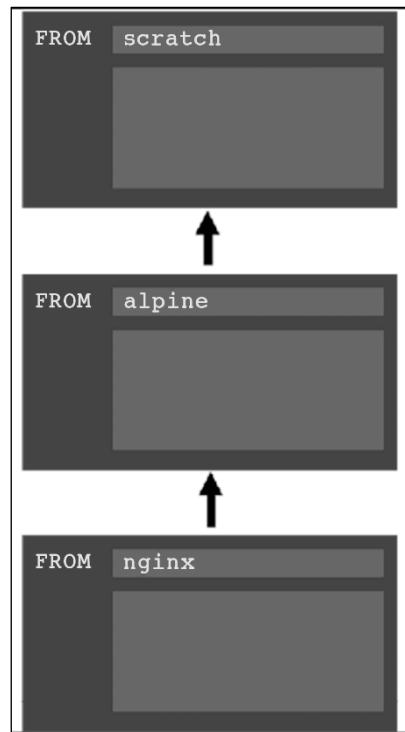
Branches

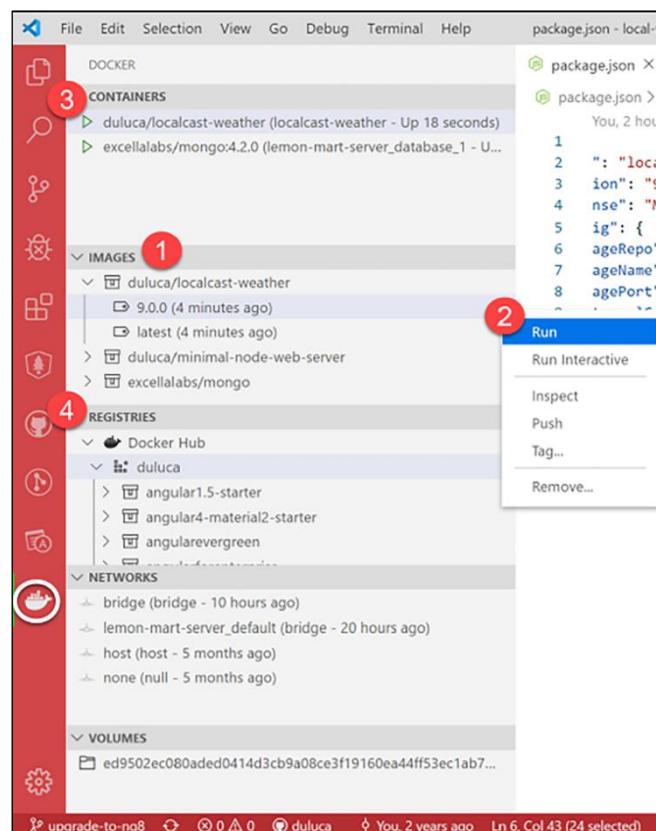
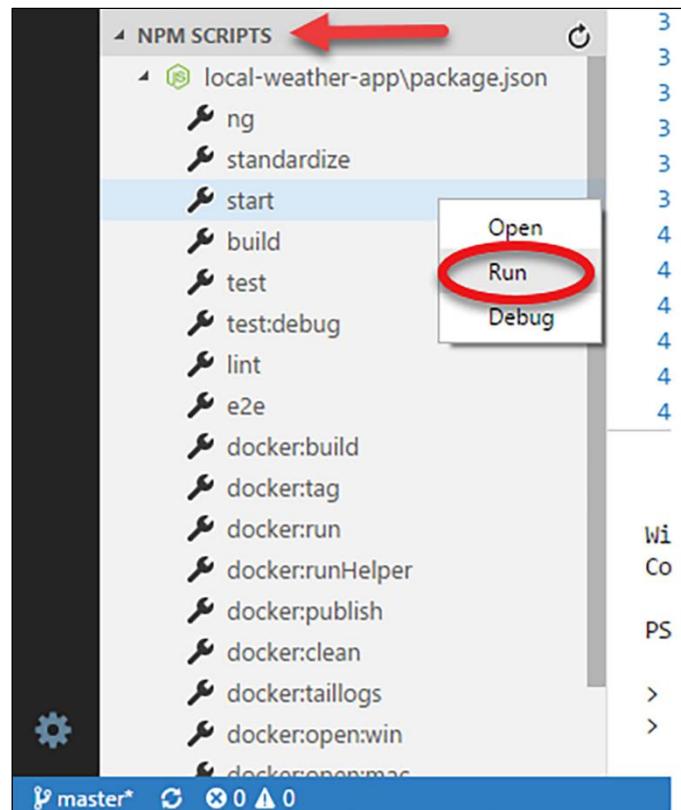
Tacs

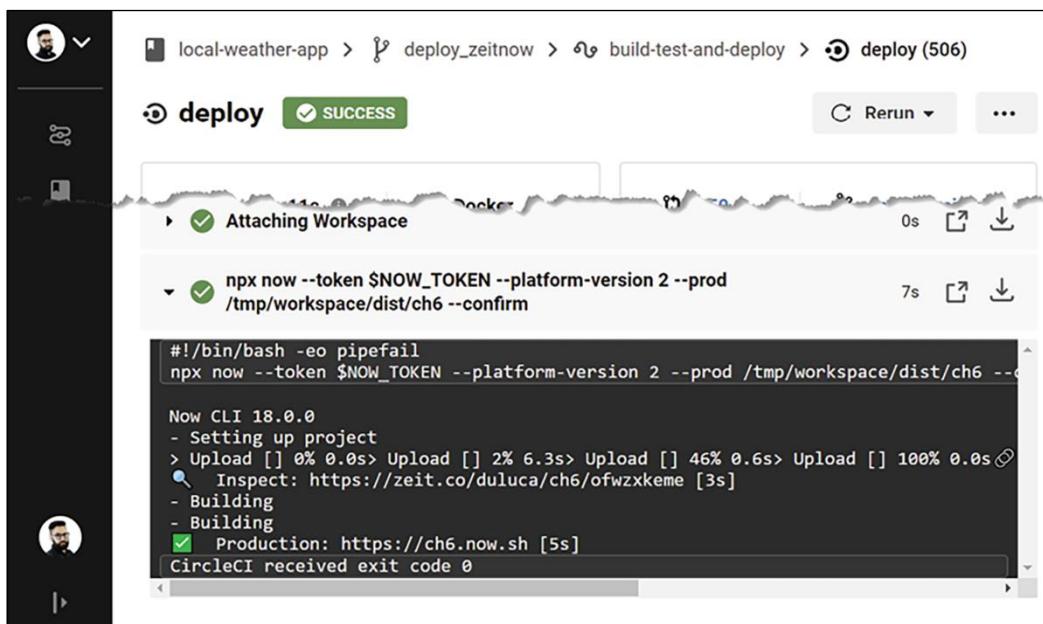
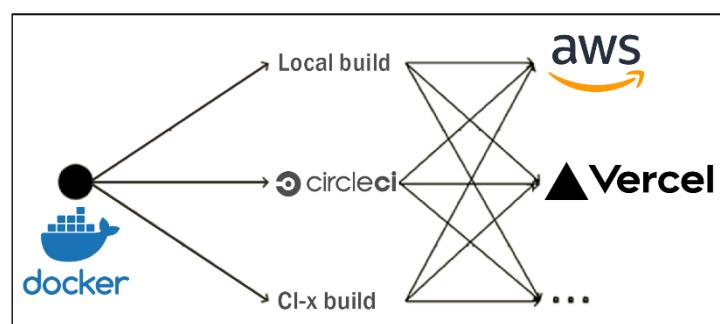
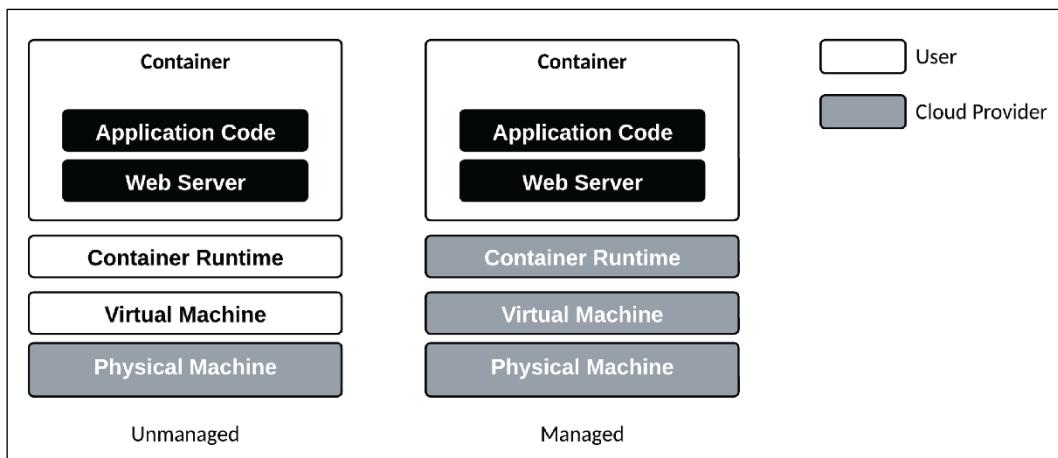


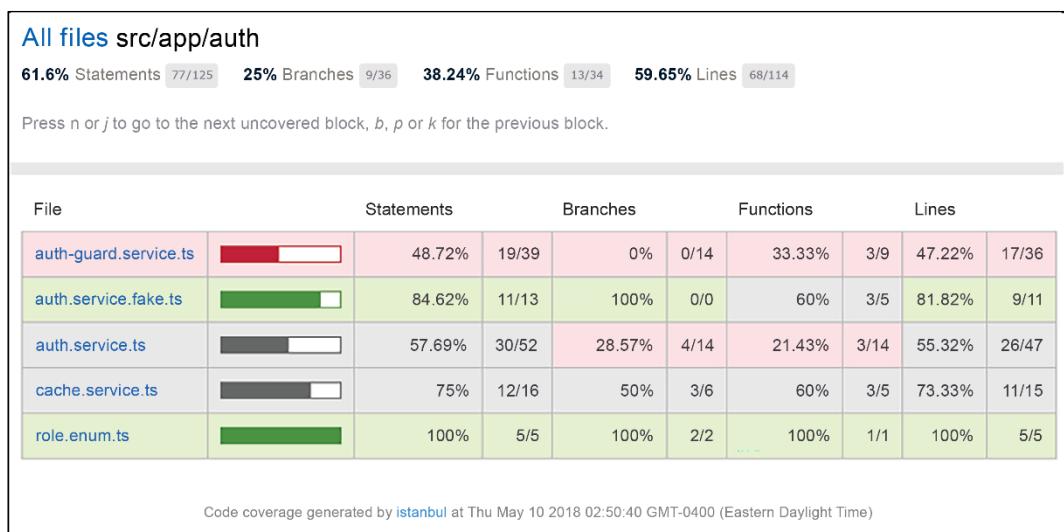
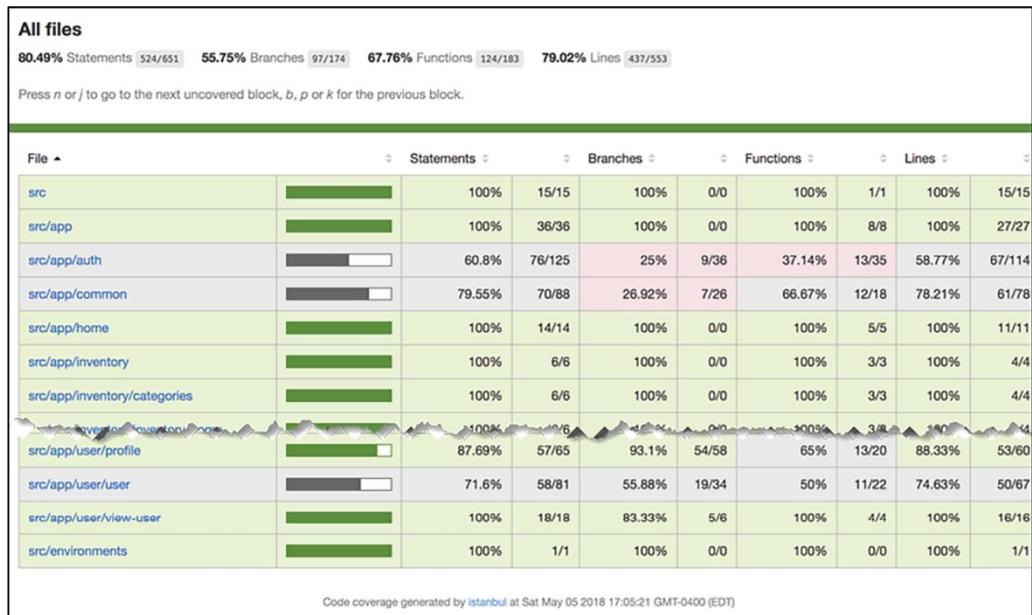
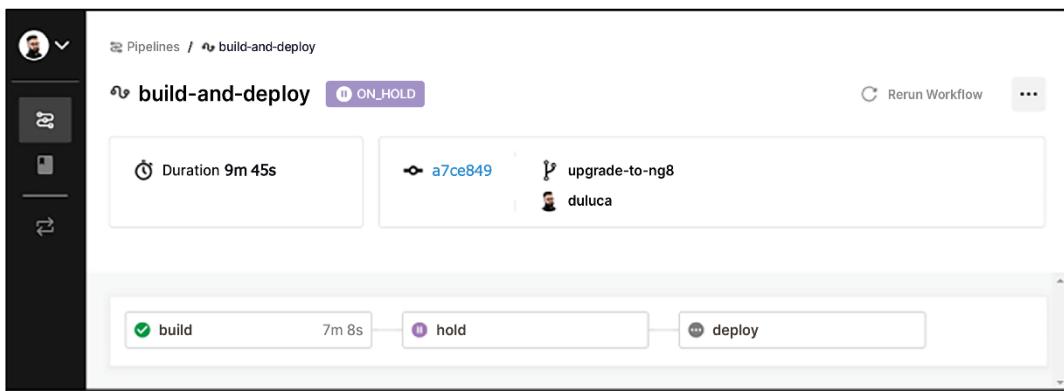












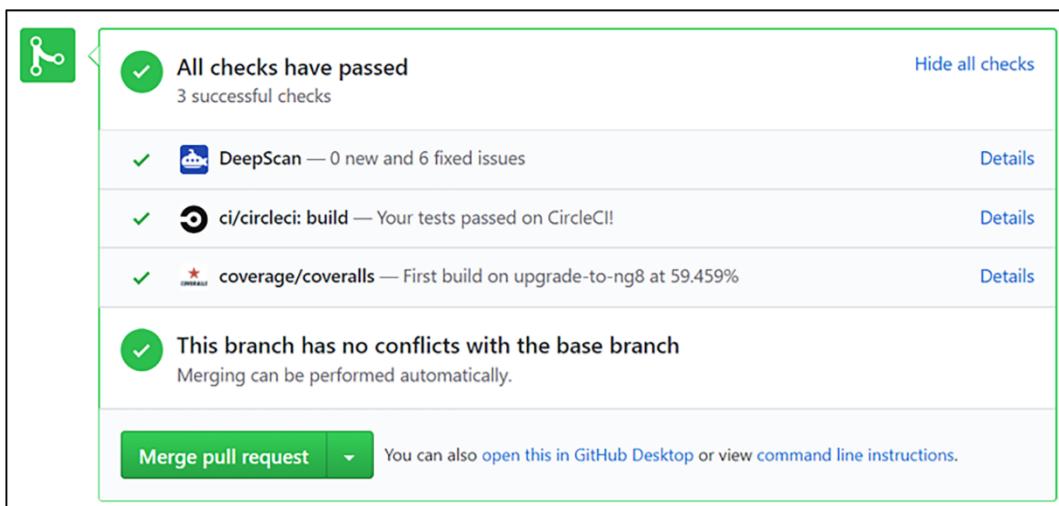
All files / src/app/auth cache.service.ts

75% Statements 12/16 50% Branches 3/6 60% Functions 3/5 73.33% Lines 11/15

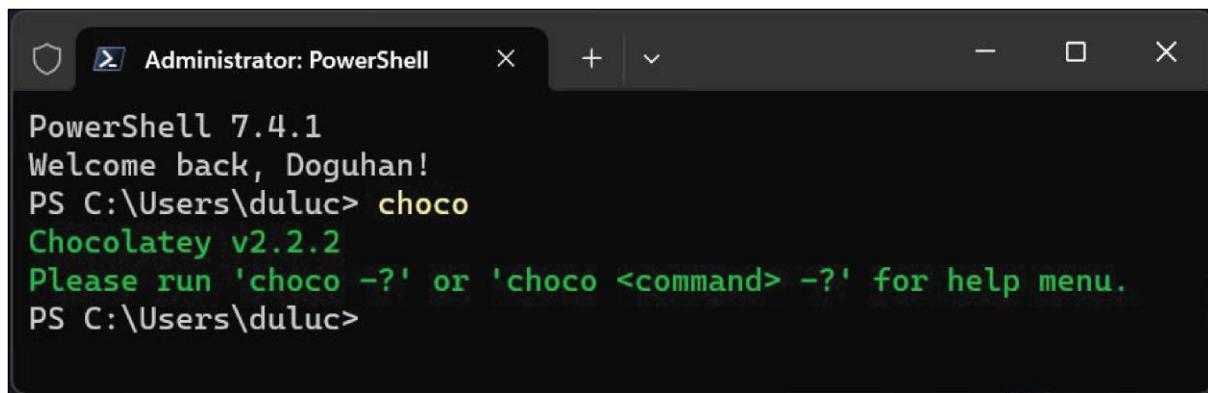
Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

```
1 1x export abstract class CacheService {  
2 1x   protected getItem<T>(key: string): T {  
3 2x     const data = localStorage.getItem(key)  
4 2x     if (data && data !== 'undefined') {  
5       return JSON.parse(data)  
6     }  
7 2x     return null  
8   }  
9  
10 1x   protected setItem(key: string, data: object | string) {  
11 2x     if (typeof data === 'string') {  
12       localStorage.setItem(key, data)  
13     }  
14     localStorage.setItem(key, JSON.stringify(data))  
15   }  
16  
17 1x   protected removeItem(key: string) {  
18     localStorage.removeItem(key)  
19   }  
20  
21 1x   protected clear() {  
22     localStorage.clear()  
23   }  
24 1x }  
25
```

Code coverage generated by [istanbul](#) at Thu May 10 2018 02:50:40 GMT-0400 (Eastern Daylight Time)

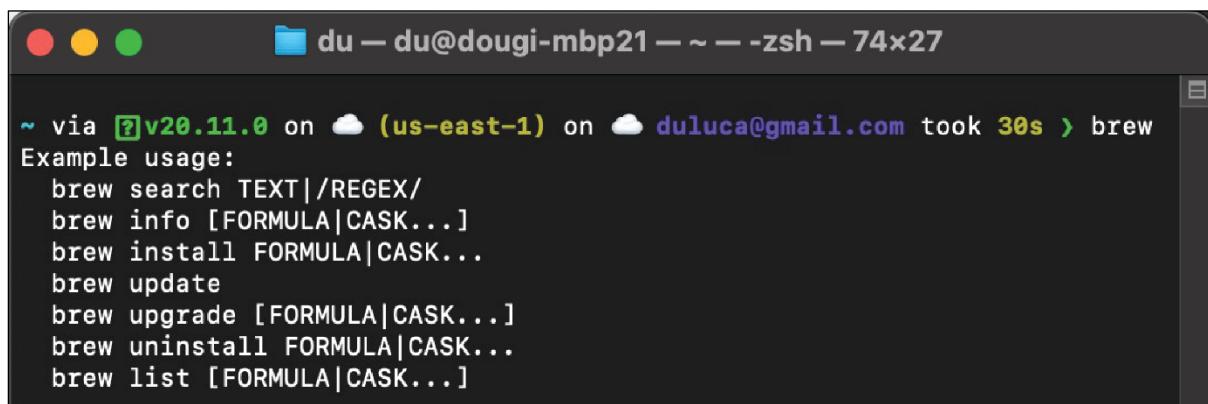


Appendix A: Setting Up Your Development Environment



A screenshot of an Administrator PowerShell window. The title bar says "Administrator: PowerShell". The command "choco" is run, showing the Chocolatey v2.2.2 version and usage instructions.

```
PowerShell 7.4.1
Welcome back, Doguhan!
PS C:\Users\duluc> choco
Chocolatey v2.2.2
Please run 'choco -?' or 'choco <command> -?' for help menu.
PS C:\Users\duluc>
```



A screenshot of a zsh terminal window. The title bar shows the user is on a Mac (via v20.11.0) and the command took 30s. It displays example usage for the brew command.

```
~ via [?]v20.11.0 on [cloud] (us-east-1) on [cloud] duluca@gmail.com took 30s > brew
Example usage:
brew search TEXT|/REGEX/
brew info [FORMULA|CASK...]
brew install FORMULA|CASK...
brew update
brew upgrade [FORMULA|CASK...]
brew uninstall FORMULA|CASK...
brew list [FORMULA|CASK...]
```