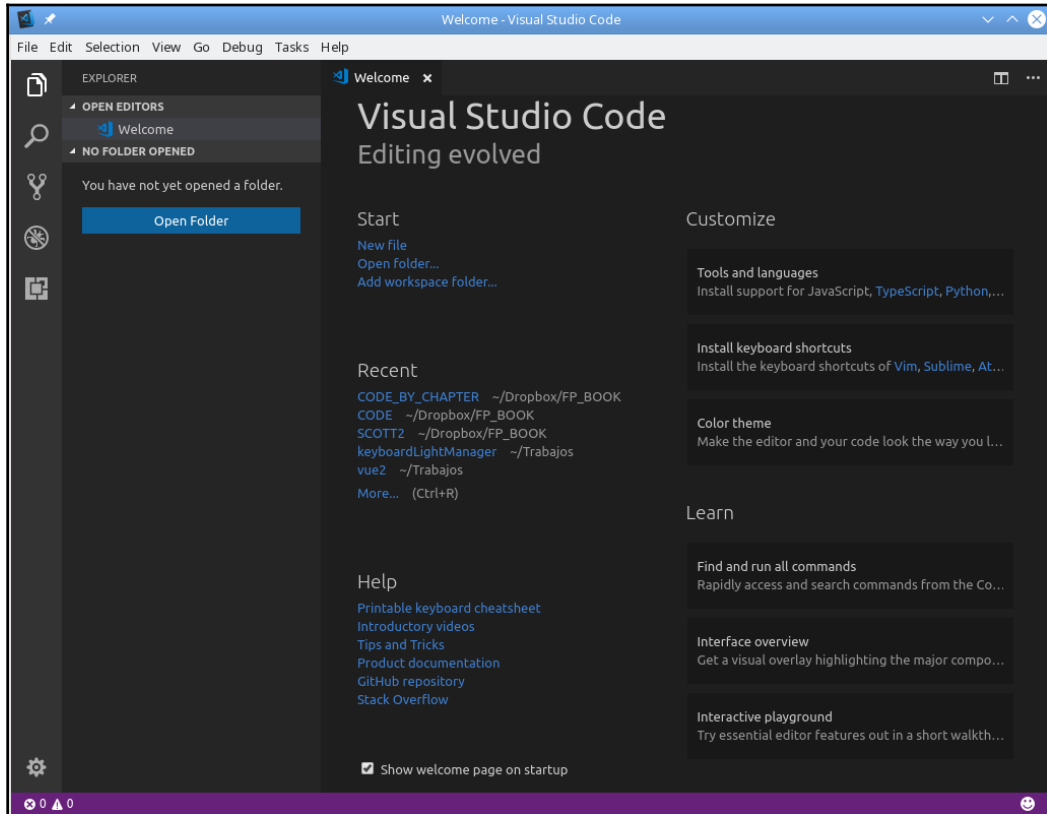
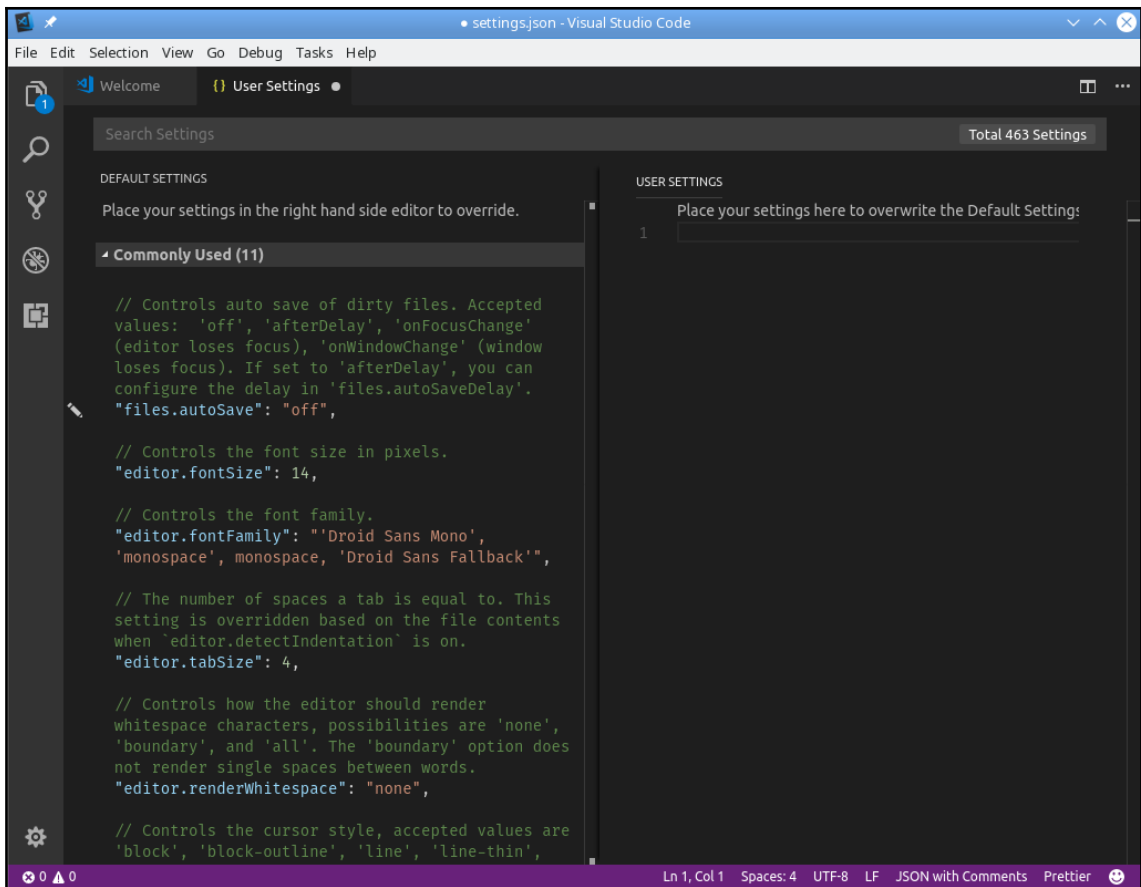
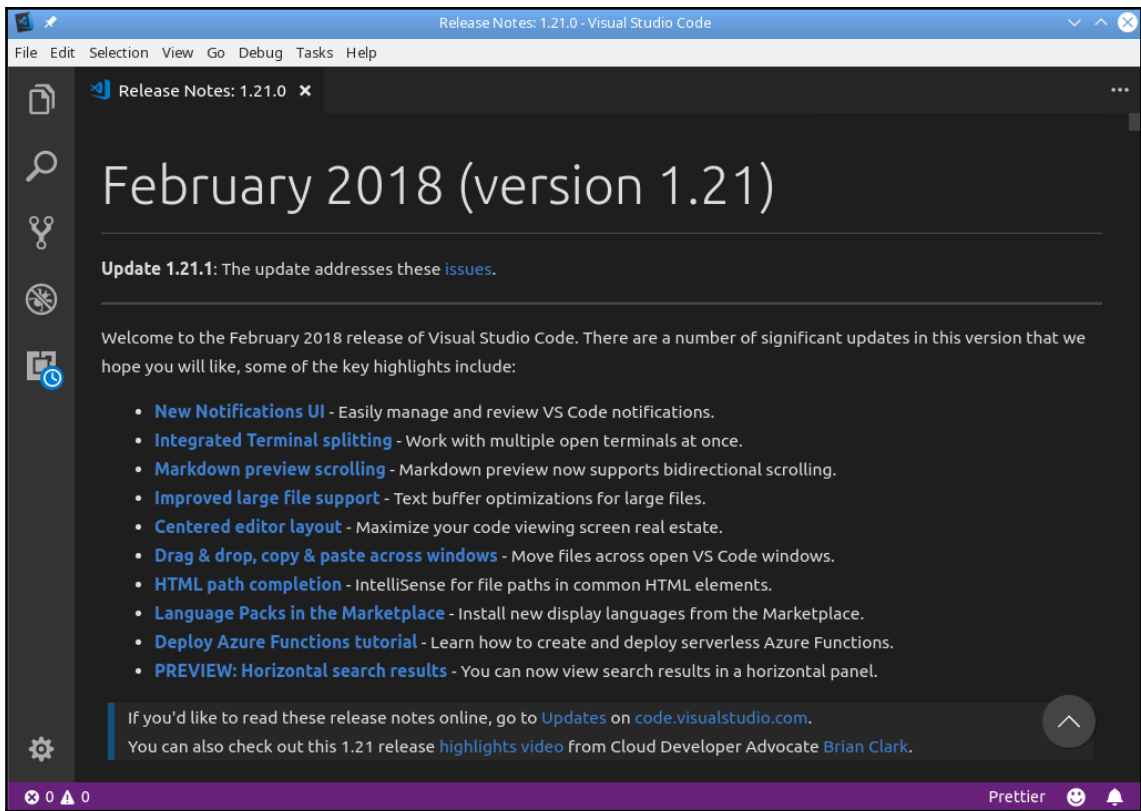
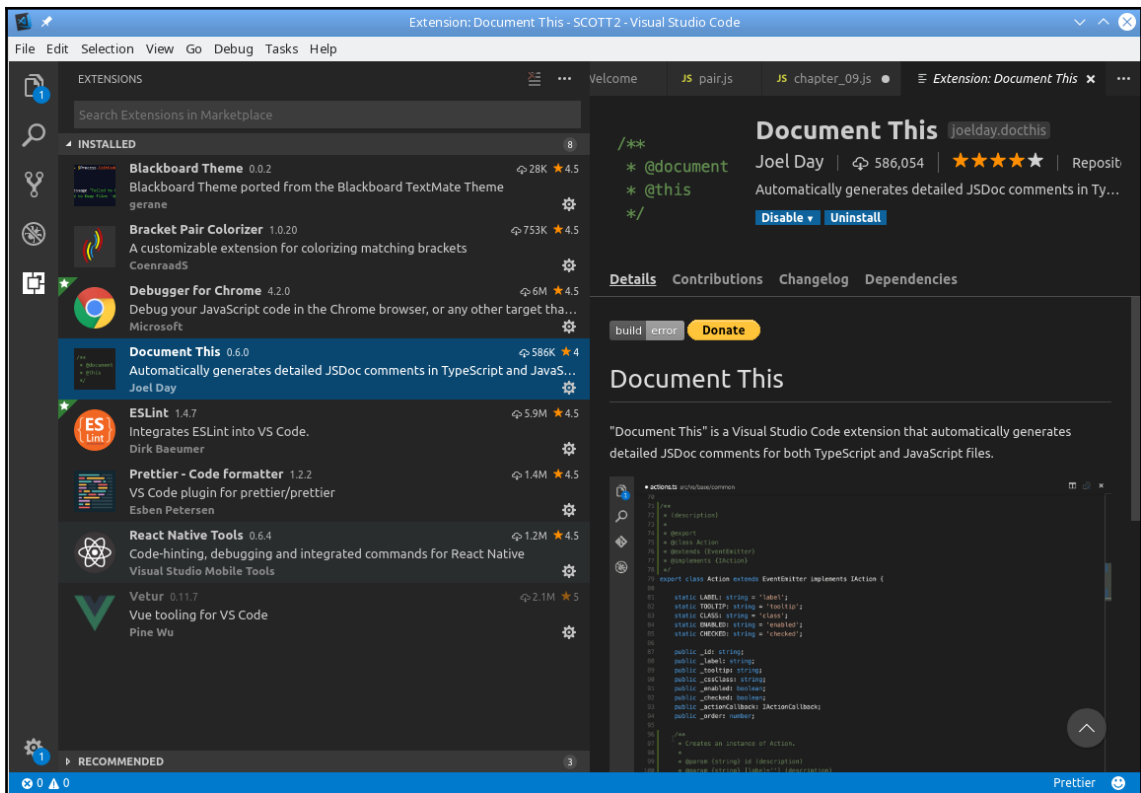


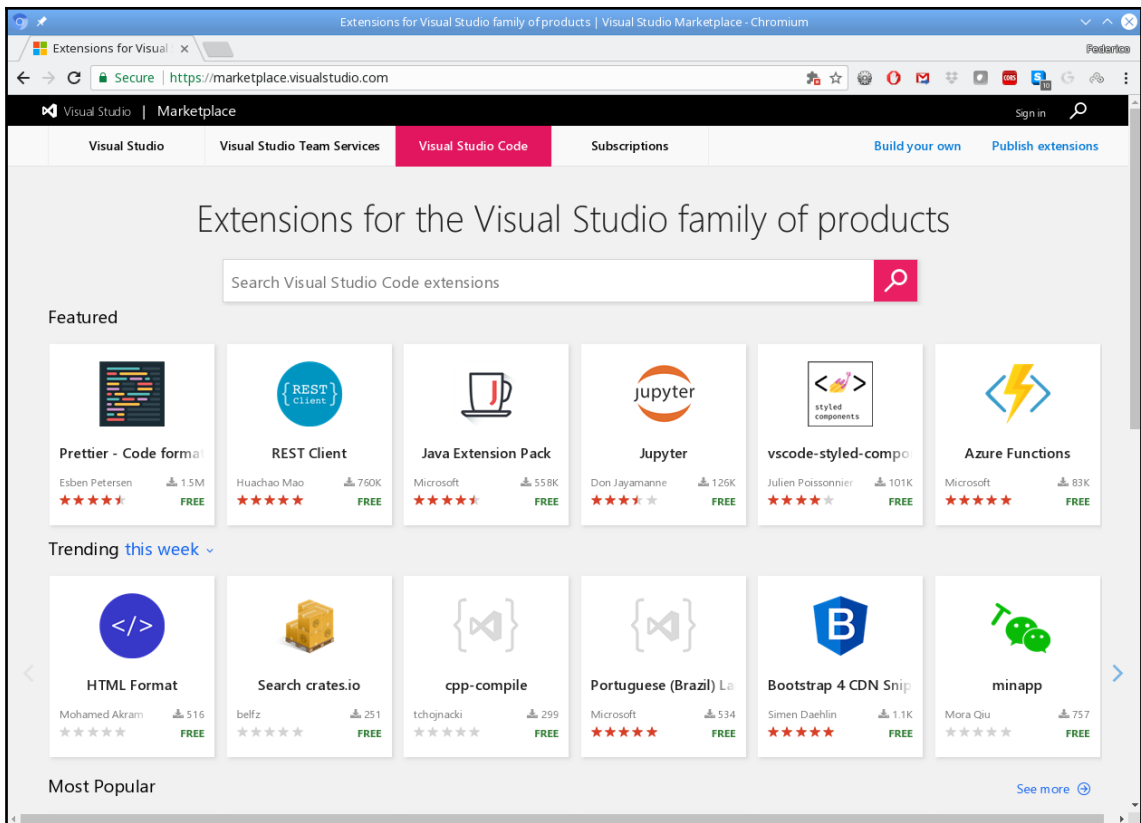
Chapter 1: Working with JavaScript Development Tools

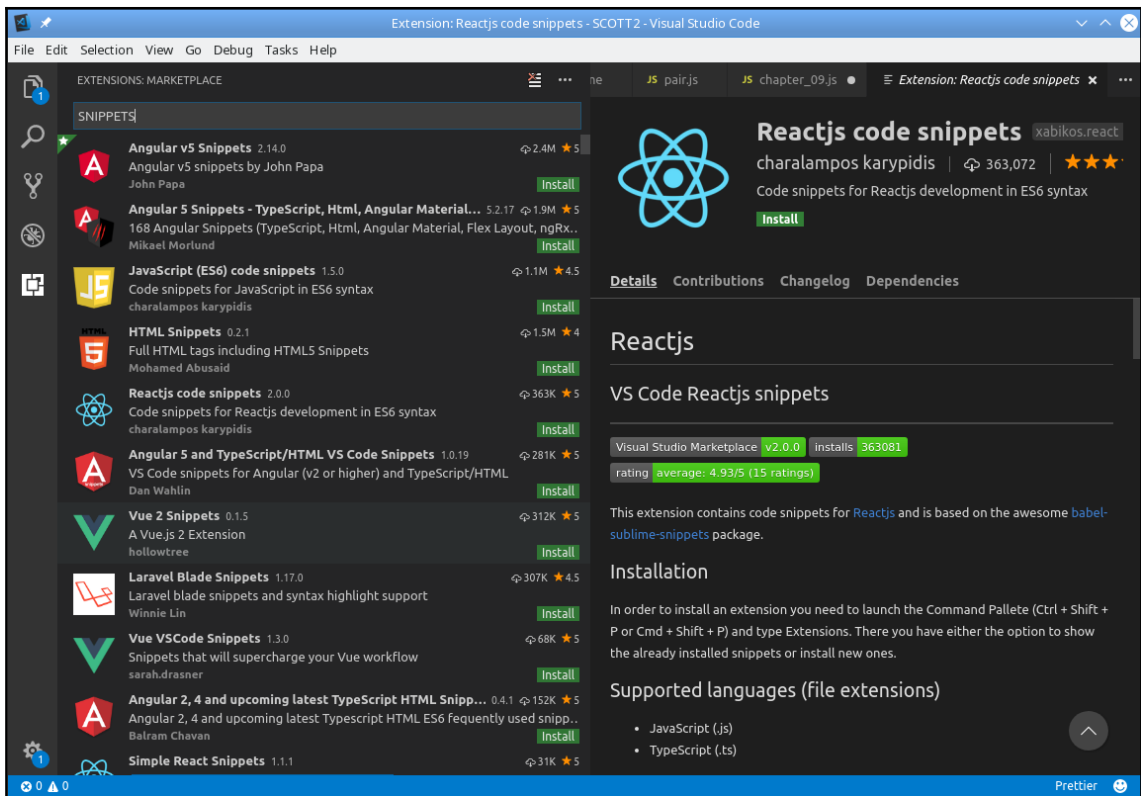


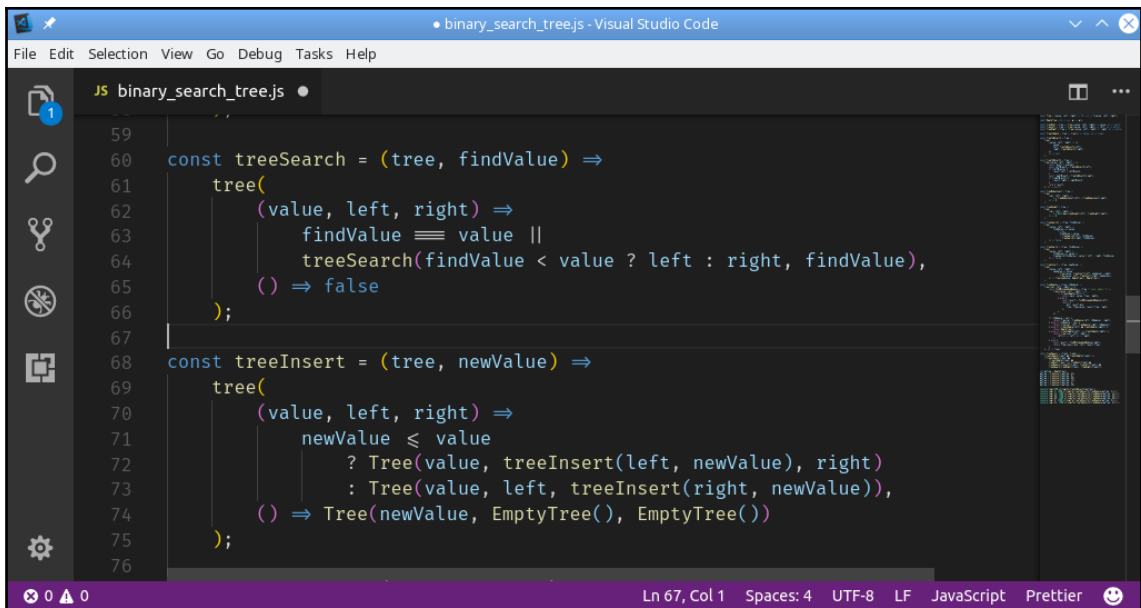








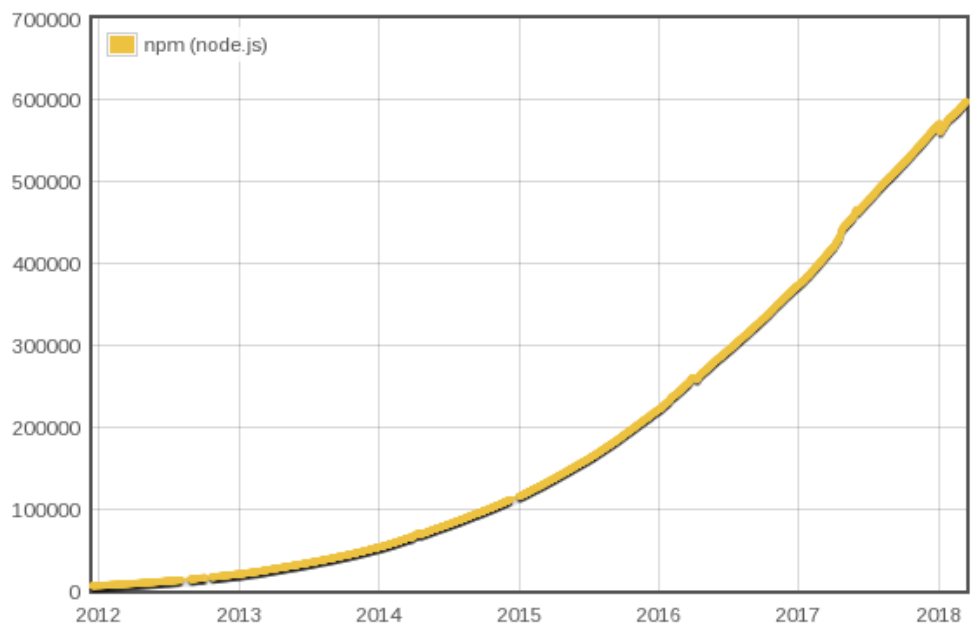


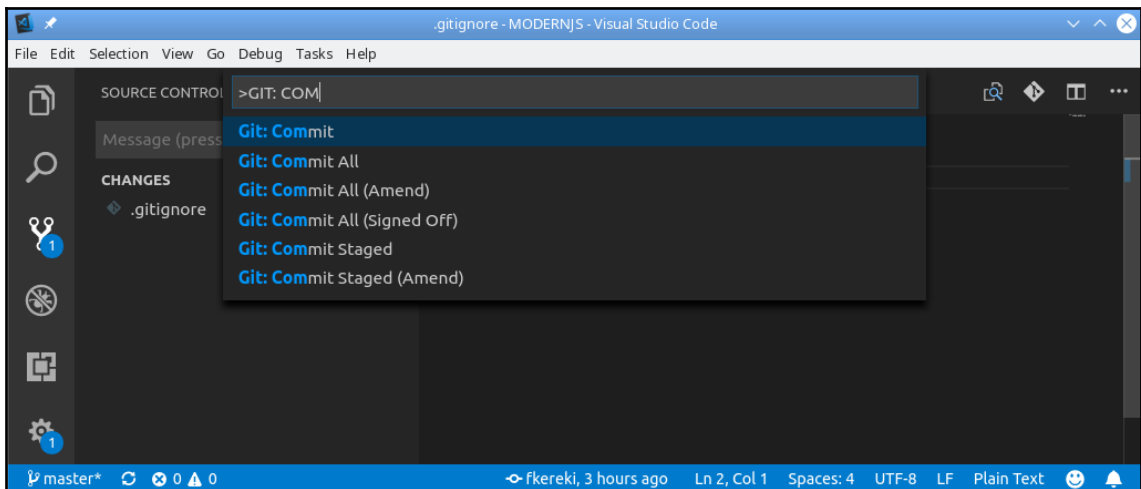


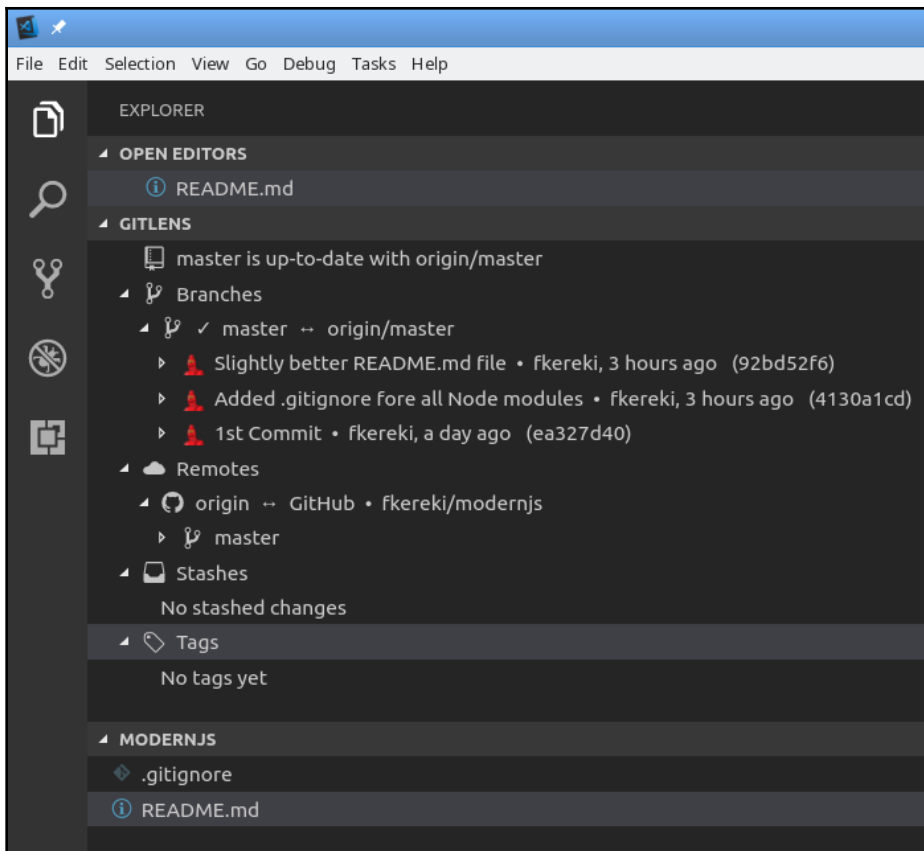
```
59
60 const treeSearch = (tree, findValue) =>
61   tree(
62     (value, left, right) =>
63       findValue === value ||
64       treeSearch(findValue < value ? left : right, findValue),
65     () => false
66   );
67
68 const treeInsert = (tree, newValue) =>
69   tree(
70     (value, left, right) =>
71       newValue ≤ value
72       ? Tree(value, treeInsert(left, newValue), right)
73       : Tree(value, left, treeInsert(right, newValue)),
74     () => Tree(newValue, EmptyTree(), EmptyTree())
75   );
76
```

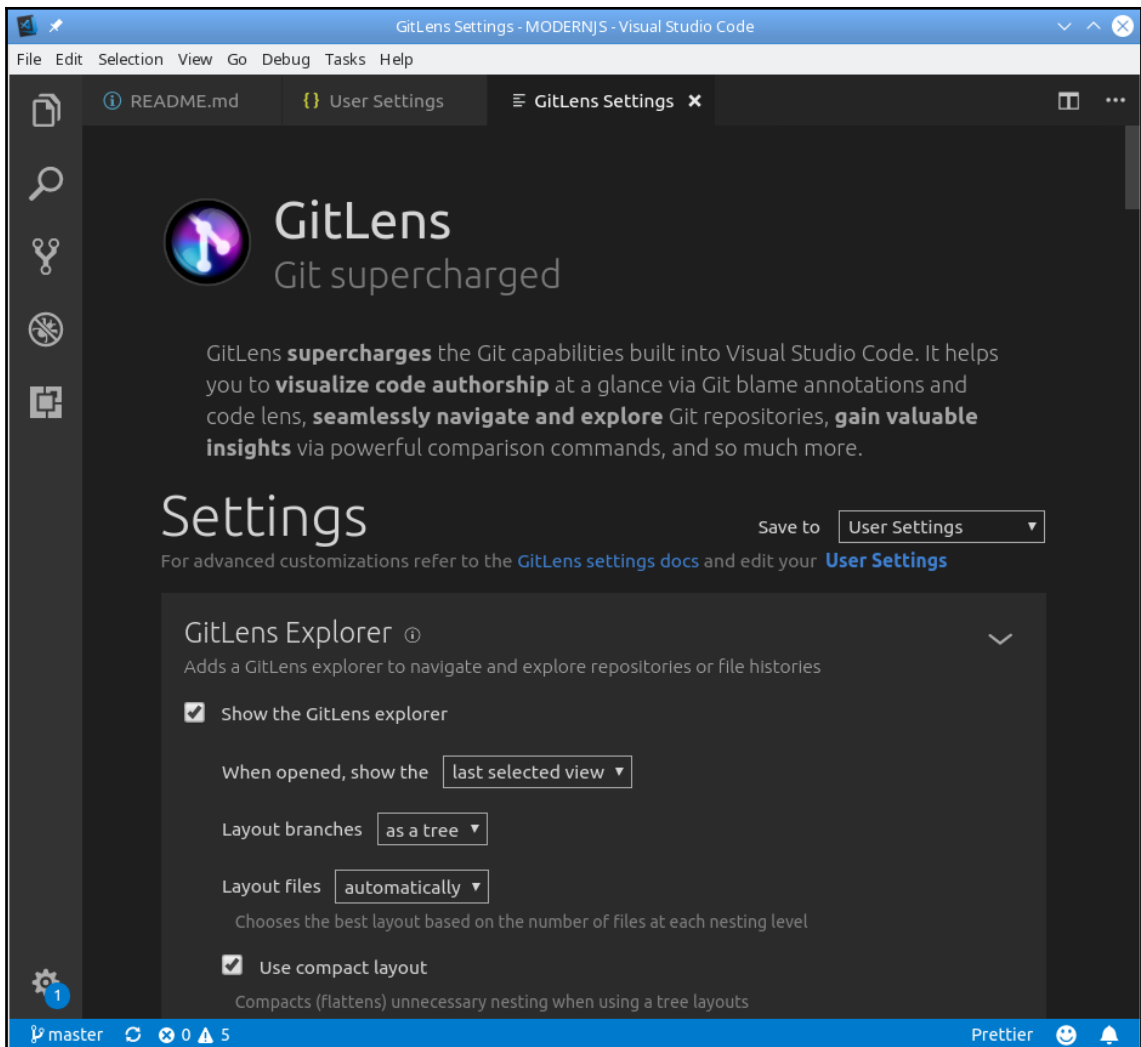
Ln 67, Col 1 Spaces: 4 UTF-8 LF JavaScript Prettier

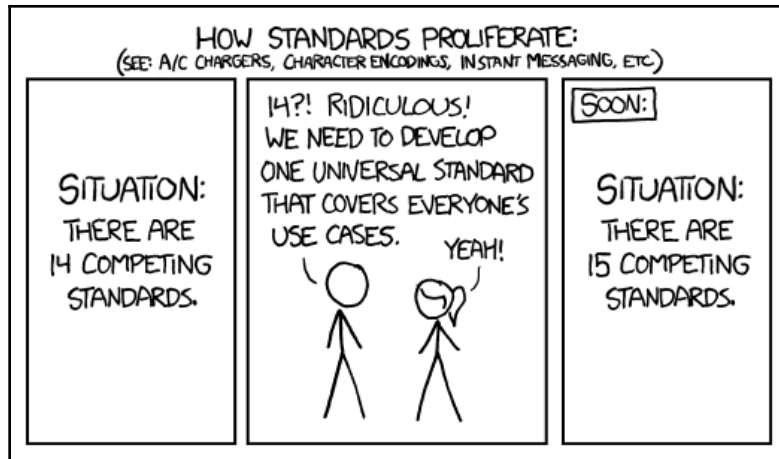
Module Counts







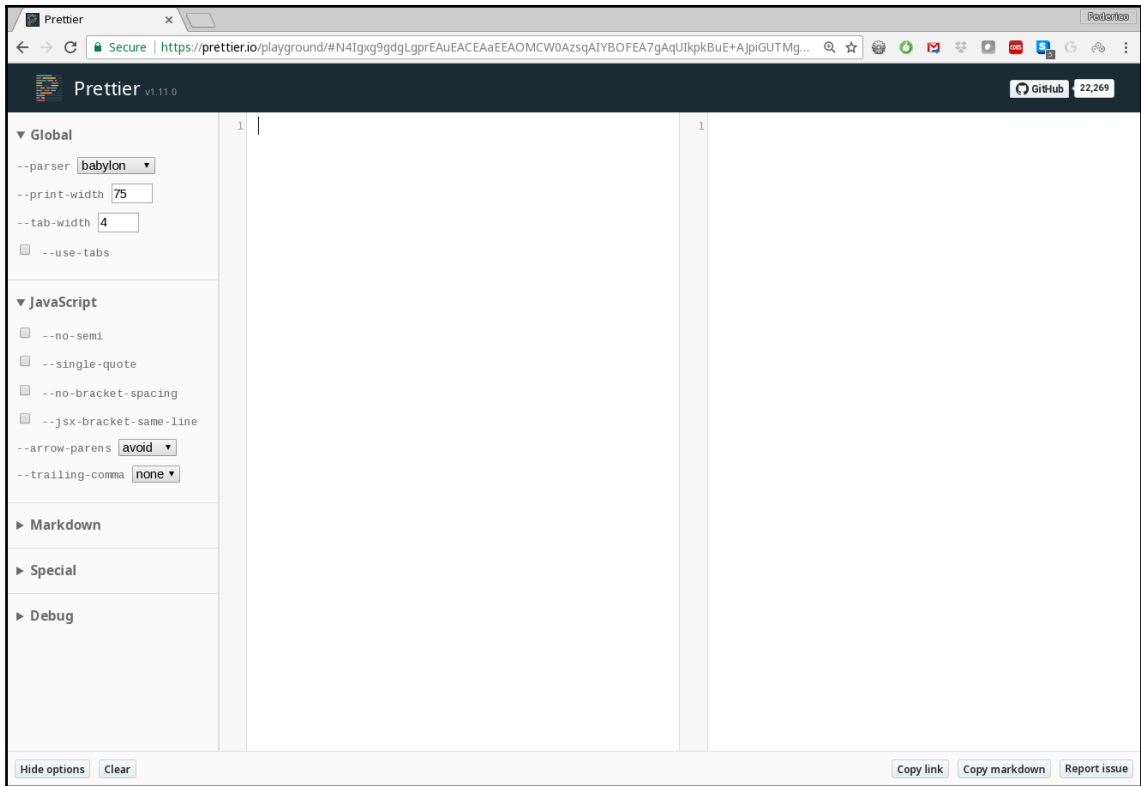




```

1 const Tree = (value, left, right) =>
2   (f, _) => f(value, left, right);
3
4 const EmptyTree = () =>
5   (_, g) => g();
6
7 const treeRoot = (tree) => tree((value, left, right) => value, () => null);
8 const treeLeft = (tree) => tree((value, left, right) => left, () => null);
9 const treeRight = (tree) => tree((value, left, right) => right, () => null);
10
11 const treeIsEmpty = tree => tree(() => false, () => true);
12
13 const treeToObject = (tree) =>
14   tree((value, left, right) => {
15     const result = { value };
16     const leftBranch = treeToObject(left);
17     if (leftBranch) { result.left = leftBranch; }
18     const rightBranch = treeToObject(right);
19     if (rightBranch) { result.right = rightBranch; }
20     return result;
21   }, () => null);
22
23 const treeNodesCount = tree => tree((val, left, right) =>
24   1 + treeNodesCount(left) + treeNodesCount(right), () => 0);
25
26 const treeHeight = tree => tree((val, left, right) =>
27   1 + Math.max(treeHeight(left), treeHeight(right)), () => 0);
28
29 const treeSearch1 = (tree, findValue) =>
30   tree(
31     (value, left, right) =>
32       findValue === value
33       ? true
34       : findValue < value ? treeSearch1(left, findValue) : treeSearch1(right, findValue)
35   );
36
37 const treeToObj = tree =>
38   tree((value, left, right) => {
39     const result = { value };
40     const leftBranch = treeToObj(left);
41     if (leftBranch) { result.left = leftBranch; }
42     const rightBranch = treeToObj(right);
43     if (rightBranch) { result.right = rightBranch; }
44     return result;
45   }, () => null);
46
47 const treeNodesCount = tree =>
48   tree(
49     (val, left, right) =>
50       1 + treeNodesCount(left) + treeNodesCount(right),
51     () => 0
52   );
53
54 const treeHeight = tree =>
55   tree(
56     (val, left, right) =>
57       1 + Math.max(treeHeight(left), treeHeight(right)),
58     () => 0
59   );
60
61 const treeSearch1 = (tree, findValue) =>
62   tree(
63     (value, left, right) =>
64       findValue === value
65       ? true
66       : findValue < value ? treeSearch1(left, findValue) : treeSearch1(right, findValue)
67   );

```



JSDoc: Global - Chromium

JSDoc: Global

file:///tmp/jsdoc/out/global.html#hanoi

Home

Global

hanoi

Global

Methods

`hanoi(disks, from, to, extra)`

Solves the Hanoi Towers puzzle, for any number of disks

Parameters:

Name	Type	Description
<code>disks</code>	number	How many disks to move
<code>from</code>	string	The starting pole's name
<code>to</code>	string	The destination pole's name
<code>extra</code>	string	The other pole's name

Source: [hanoi.js, line 9](#)

Documentation generated by [JSDoc 3.5.5](#) on Sat Mar 10 2018 15:09:10 GMT-0300 (-03)

```

9
10 const finder = (column = 0) => {
11   if (column === SIZE) {
12     [eslint] Unary operator '+' used. (no-plusplus)
13     solutions++; // count it
14   } else {
15     const testRowsInColumn = j => {
16       if (j < SIZE) {
17         if (checkPlace(column, j)) {
18           places[column] = j;
19           finder(column + 1);
20         }
21         testRowsInColumn(j + 1);
22       }
23     };
24     testRowsInColumn(0);
25   }
26 };

```

The screenshot shows a code editor with the following code and a linting error:

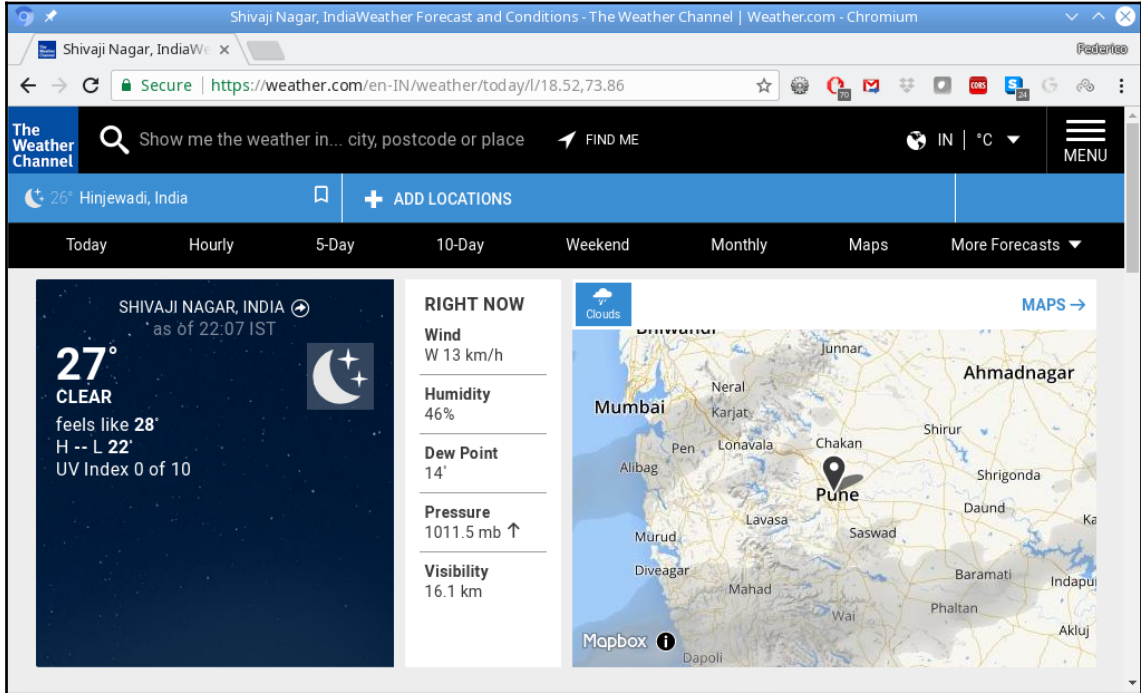
```

1 // @flow
2
3 const SIZE = 8;
4 let places = Array(SIZE);
5 let solutions /* :number */ = 0;
6
7
8
9
10 solutions = "0";
11
12 const checkPlace = (column, row) =>
13   places
14     .slice(0, column)
15     .every((v, i) => v !== row && Math.abs(v - row) !== column - i);

```

The linting error message is: [flow] Cannot assign ``0`` to `solutions` because string [1] is incompatible with number [2]. (References: [1] [2])

Chapter 2: Using Modern JavaScript Features



ECMAScript 2016+ compatibility table - Chromium <2>

ECMAScript 5 6 2016+ next intl non-standard compatibility table

Sort by Engine types Show obsolete platforms Show unstable platforms

by kangax and webbedspace and zloirock Fork 578

Compilers/polyfills

Desktop browsers

Feature name	Current browser	Traceur	Babel 6 + core-js ^[7]	Closure	TypeScript + core-js	es7-shim	IE 11	Edge 15	Edge 16	FF 52 ESR	FF 58	FF 59	CH 64, OP 51 ^[1]	CH 65, OP 52 ^[1]	SF 10.1	SF 11
2016 features																
exponentiation (**) operator	3/3	2/3	3/3	3/3	2/3	0/3	0/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
Array.prototype.includes	3/3	0/3	3/3	1/3	3/3	2/3	0/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
2016 misc																
generator functions can't be used with "new"	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
generator throw() caught by inner generator	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
strict fn w/ non-strict non-simple params is error ^[11]	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
nested rest destructuring declarations	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
nested rest destructuring parameters ^[13]	Yes	No	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proxy "enumerate" handler removed ^[14]	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Proxy internal calls Array.prototype.includes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2017 features																
Object static methods	4/4	0/4	4/4	3/4	4/4	3/4	0/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
String padding	2/2	0/2	2/2	2/2	2/2	2/2	0/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
trailing commas in function syntax	2/2	0/2	2/2	2/2	2/2	2/2	0/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
async functions	15/15	3/15	3/15	9/15	2/15	0/15	0/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15
shared memory and atomics	0/17	0/17	0/17	0/17	0/17	0/17	0/17	0/17	17/17	0/17	0/17	0/17	0/17	0/17	16/17	12/17

Can I use... Support tables for HTML5, CSS3, etc - Chromium

Can I use... Support ta x

Secure | https://caniuse.com/#search=proxy

HomeNewsMarch 12, 2018 - New feature: Array.prototype.includesCompare browsersAbout

Can I use

proxy

?

Settings

2 results found

#

Proxy object

OTHER

UsageGlobal

% of all users87.66%

The Proxy object allows custom behavior to be defined for fundamental operations. Useful for logging, profiling, object visualization, etc.

Current alignedUsage relativeDate relativeShow all

IE	Edge	Firefox	Chrome	Safari	iOS Safari	Opera Mini	Chrome for Android	UC Browser for Android	Samsung Internet
			49						
			63		10.2				
		58	64		10.3				4
11	16	59	65	11	11.2	all	64	11.8	6.2
	17	60	66	11.1	11.3				
		61	67	TP					
			68						

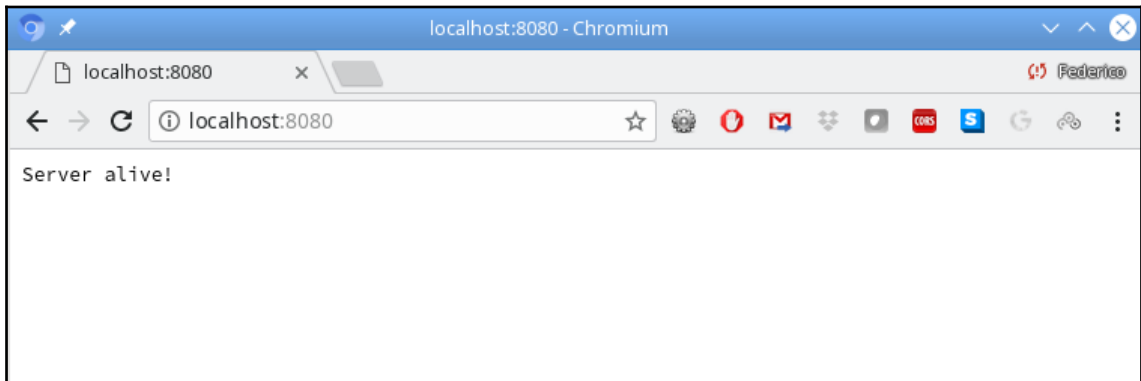
NotesKnown issues (0)Resources (9)Feedback

No notes

See support for Proxy (ECMAScript 6)

[19]

Chapter 3: Developing with Node

A screenshot of a terminal window titled 'chapter03: npm — Konsole'. The terminal shows the following sequence of commands and output:

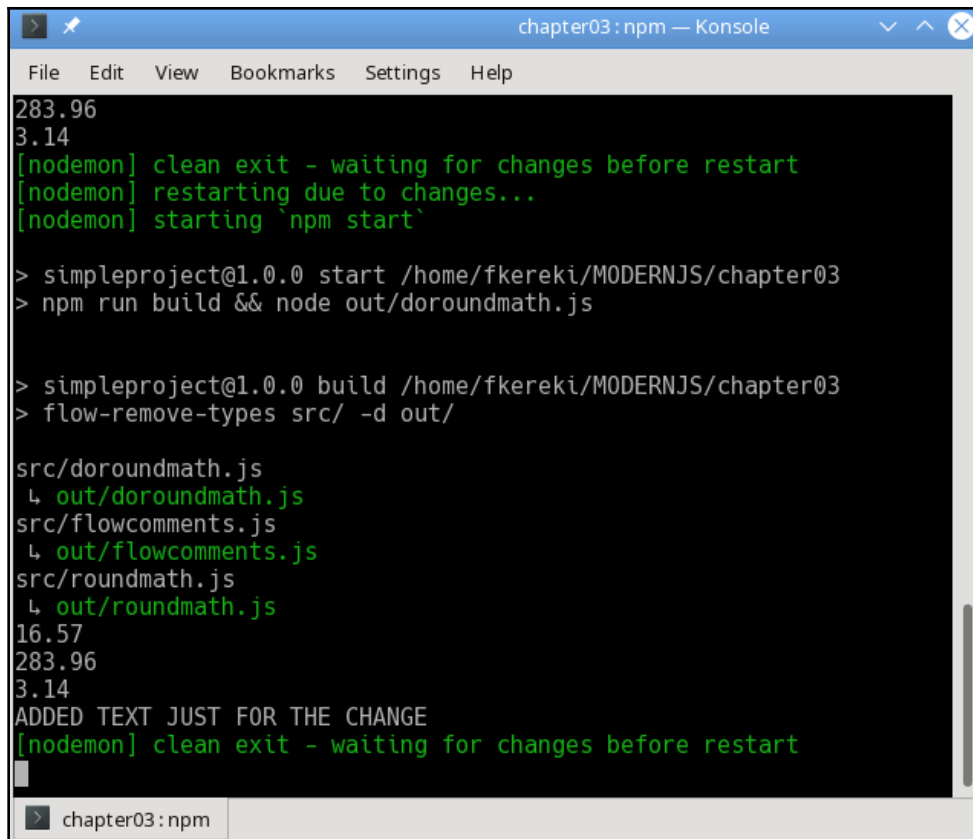
```
> nodemon --watch src --delay 1 --exec npm start
[nodemon] 1.17.3
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: /home/fkereki/MODERNJS/chapter03/src/**/*
[nodemon] starting `npm start`

> simpleproject@1.0.0 start /home/fkereki/MODERNJS/chapter03
> npm run build && node out/doroundmath.js

> simpleproject@1.0.0 build /home/fkereki/MODERNJS/chapter03
> flow-remove-types src/ -d out/

src/doroundmath.js
  ↳ out/doroundmath.js
src/flowcomments.js
  ↳ out/flowcomments.js
src/roundmath.js
  ↳ out/roundmath.js
16.57
283.96
3.14
[nodemon] clean exit - waiting for changes before restart
```

The terminal window has a menu bar with 'File', 'Edit', 'View', 'Bookmarks', 'Settings', and 'Help'. A tab at the bottom is labeled 'chapter03: npm'.

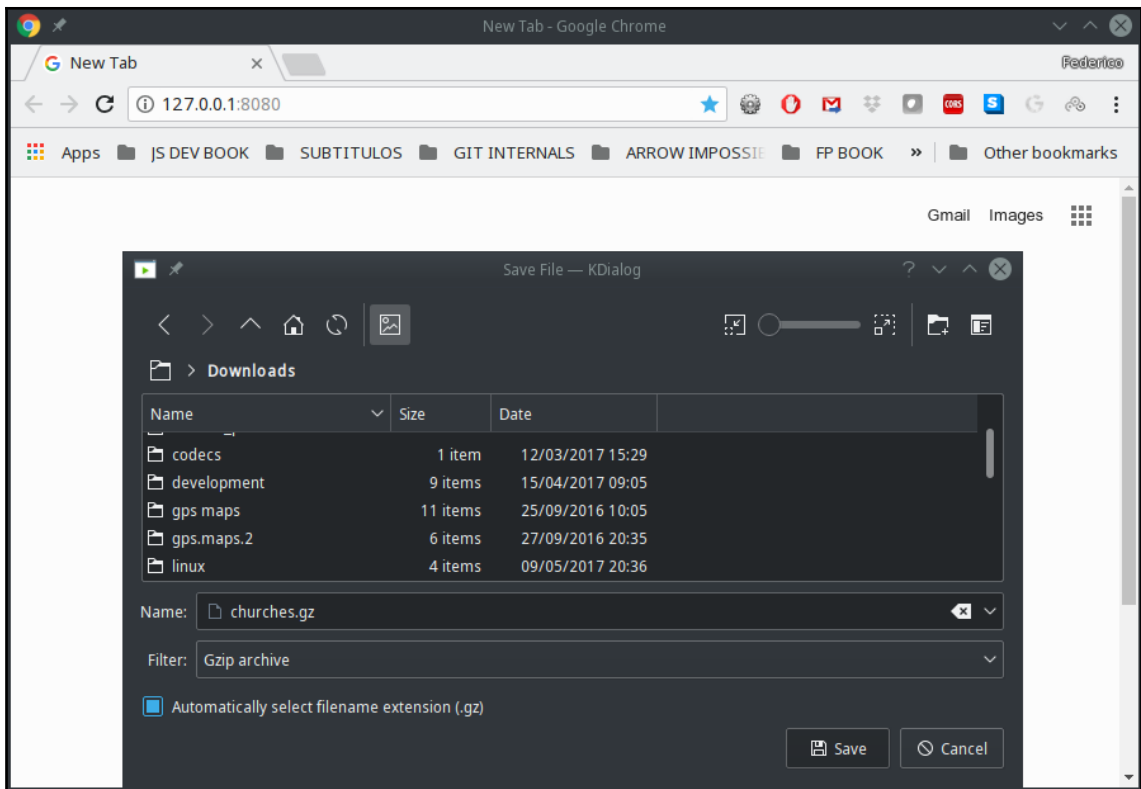


```
chapter03:npm — Konsole
File Edit View Bookmarks Settings Help
283.96
3.14
[nodemon] clean exit - waiting for changes before restart
[nodemon] restarting due to changes...
[nodemon] starting `npm start`

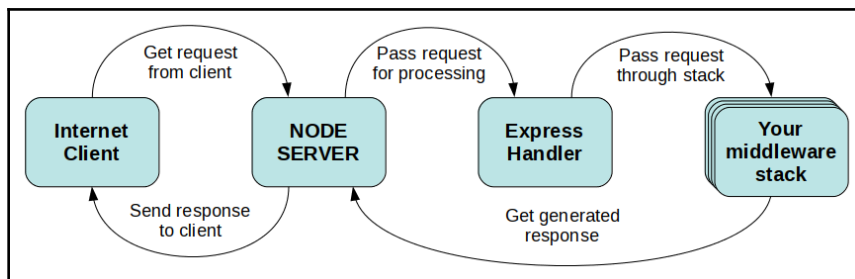
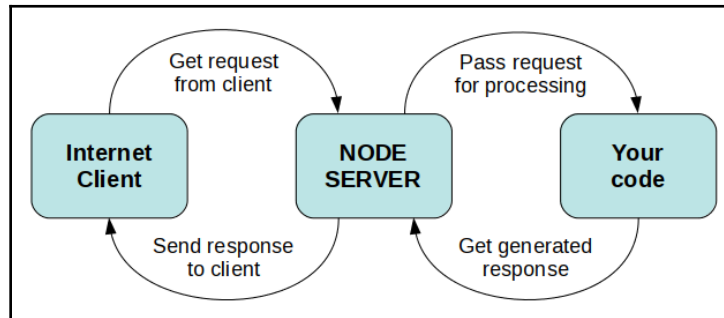
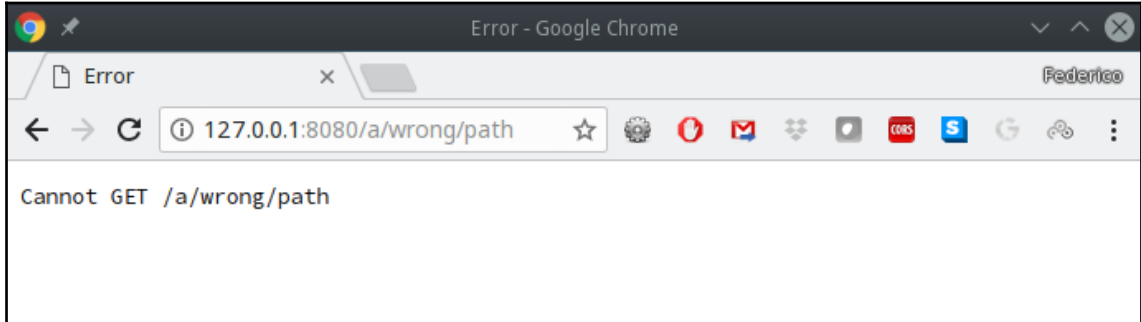
> simpleproject@1.0.0 start /home/fkereki/MODERNJS/chapter03
> npm run build && node out/doroundmath.js

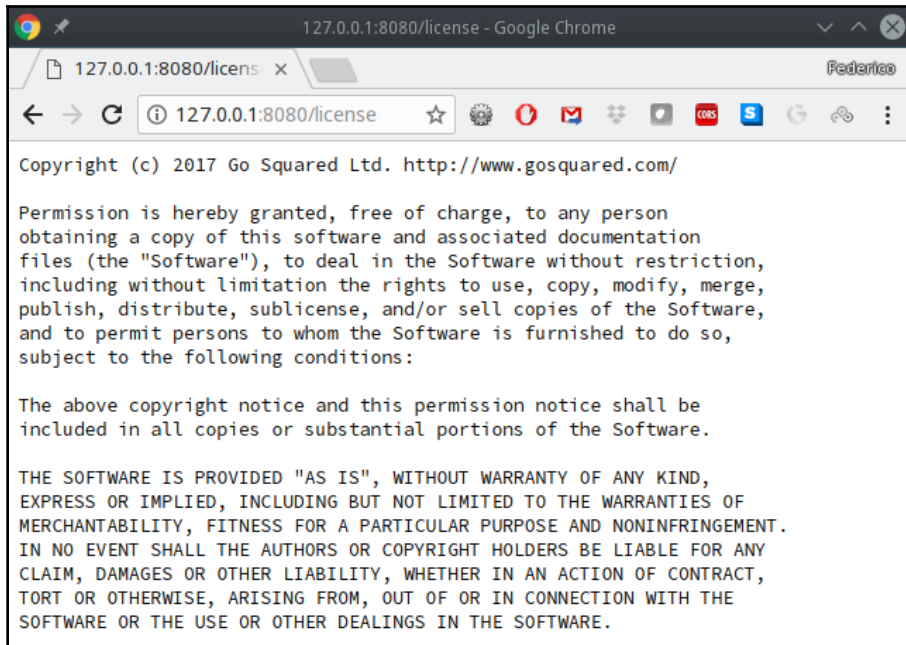
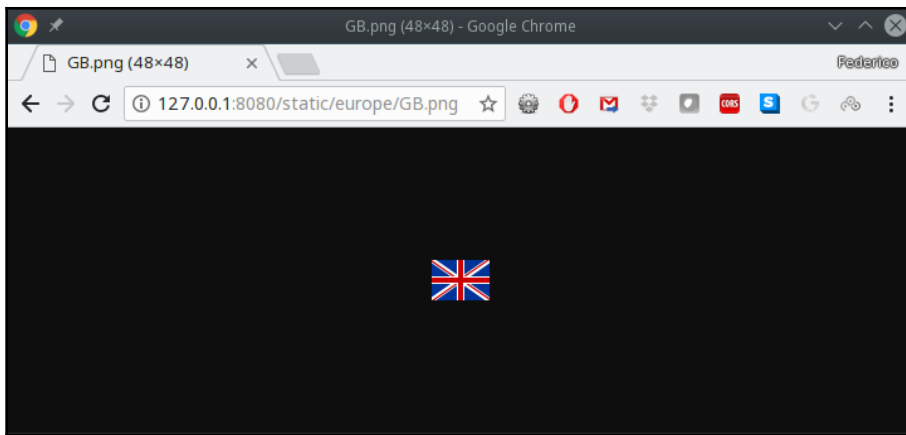
> simpleproject@1.0.0 build /home/fkereki/MODERNJS/chapter03
> flow-remove-types src/ -d out/

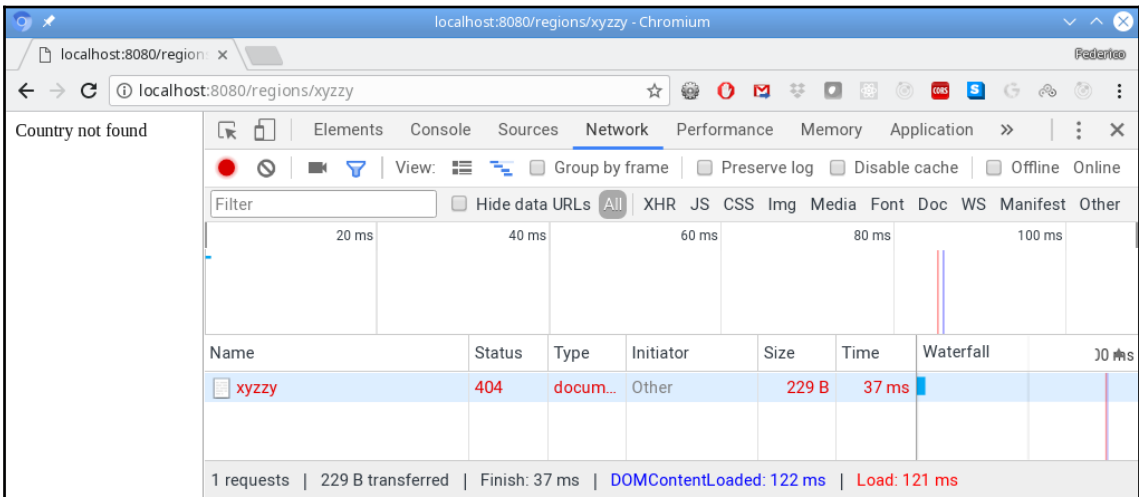
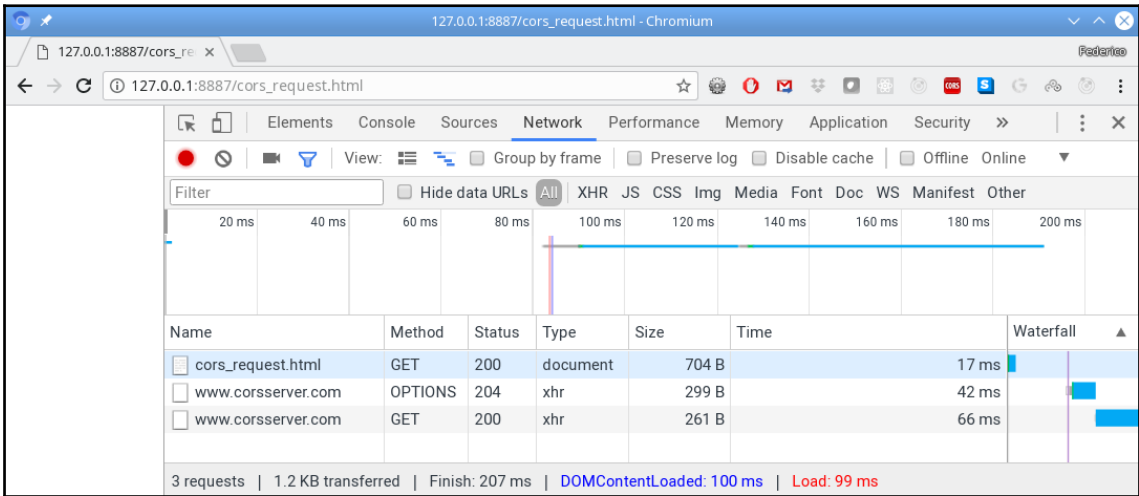
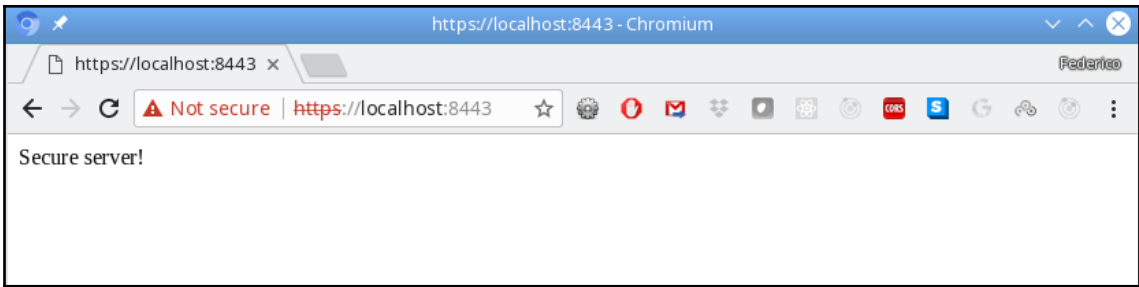
src/doroundmath.js
└─ out/doroundmath.js
src/flowcomments.js
└─ out/flowcomments.js
src/roundmath.js
└─ out/roundmath.js
16.57
283.96
3.14
ADDED TEXT JUST FOR THE CHANGE
[nodemon] clean exit - waiting for changes before restart
> chapter03:npm
```



Chapter 4: Implementing RESTful Services with Node







Chapter 5: Testing and Debugging Your Server

```
2018-05-28T00:28:54.869Z [serv] info Ready at http://localhost:8080
2018-05-28T00:29:00.816Z [serv] info GET request for /
2018-05-28T00:29:00.817Z [serv] info Doing some processing...
2018-05-28T00:29:04.844Z [serv] info GET request for /
2018-05-28T00:29:04.844Z [serv] info Doing some processing...
2018-05-28T00:29:06.650Z [serv] info GET request for /invented
2018-05-28T00:29:06.651Z [serv] warn UNKNOWN ROUTE /invented
2018-05-28T00:29:08.130Z [serv] info GET request for /
2018-05-28T00:29:08.130Z [serv] info Doing some processing...
2018-05-28T00:29:11.214Z [serv] info GET request for /xyzyz
2018-05-28T00:29:11.214Z [serv] info Adventurer says 'XYZZY'
2018-05-28T00:29:11.214Z [serv] error GENERAL ERROR res.say_xyzyz is not a function
TypeError: res.say_xyzyz is not a function
    at app.get (/home/fkerekki/MODERNJS/chapter05/out/winston_server.js:60:9)
    at Layer.handle [as handle_request] (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/layer.js:95:5)
    at next (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/route.js:137:13)
    at Route.dispatch (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/route.js:112:3)
    at Layer.handle [as handle_request] (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/layer.js:95:5)
    at /home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/index.js:281:22
    at Function.process_params (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/index.js:335:12)
    at next (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/index.js:275:10)
    at app.use (/home/fkerekki/MODERNJS/chapter05/out/winston_server.js:47:5)
    at Layer.handle [as handle_request] (/home/fkerekki/MODERNJS/chapter05/node_modules/express/lib/router/layer.js:95:5)
2018-05-28T00:29:13.061Z [serv] info GET request for /
2018-05-28T00:29:13.061Z [serv] info Doing some processing...
2018-05-28T00:29:14.158Z [serv] info GET request for /
2018-05-28T00:29:14.158Z [serv] info Doing some processing...
```

```
> npm test

> simpleproject@1.0.0 test /home/fkerekki/MODERNJS/chapter05
> jest out/

PASS out/restful_regions.test.js
PASS out/validate_user.test.js
PASS out/roundmath.test.js

Test Suites: 3 passed, 3 total
Tests:       10 passed, 10 total
Snapshots:   0 total
Time:        0.647s, estimated 1s
Ran all test suites matching /out\/i.
> █
```

```

> npm test

> simpleproject@1.0.0 test /home/fkerekki/MODERNJS/chapter05
> jest out/

FAIL out/restful_regions.test.js
  • deleteRegion > should produce a 404 for non-existing region

    expect(received).toBe(expected) // Object.is equality

    Expected: 204
    Received: 404

      41 |         );
      42 |         await deleteRegion(mRes, mDb, "IP", "24");
    > 43 |         expect(mRes.statusCode).toBe(204);
         |                                   ^
      44 |     });
      45 | });
      46 |

      at _callee3$ (out/restful_regions.test.js:43:33)
      at tryCatch (node_modules/regenerator-runtime/runtime.js:62:40)
      at Generator.invoke [as _invoke] (node_modules/regenerator-runtime/runtime.js:296:22)
      at Generator.prototype.(anonymous function) [as next] (node_modules/regenerator-runtime/runtime.js:114:21)
      at step (out/restful_regions.test.js:4:191)
      at out/restful_regions.test.js:4:361

PASS out/validate_user.test.js
PASS out/roundmath.test.js

Test Suites: 1 failed, 2 passed, 3 total
Tests: 1 failed, 9 passed, 10 total
Snapshots: 0 total
Time: 1.11s
Ran all test suites matching /out\/i.
npm ERR! Test failed. See above for more details.
> 

```

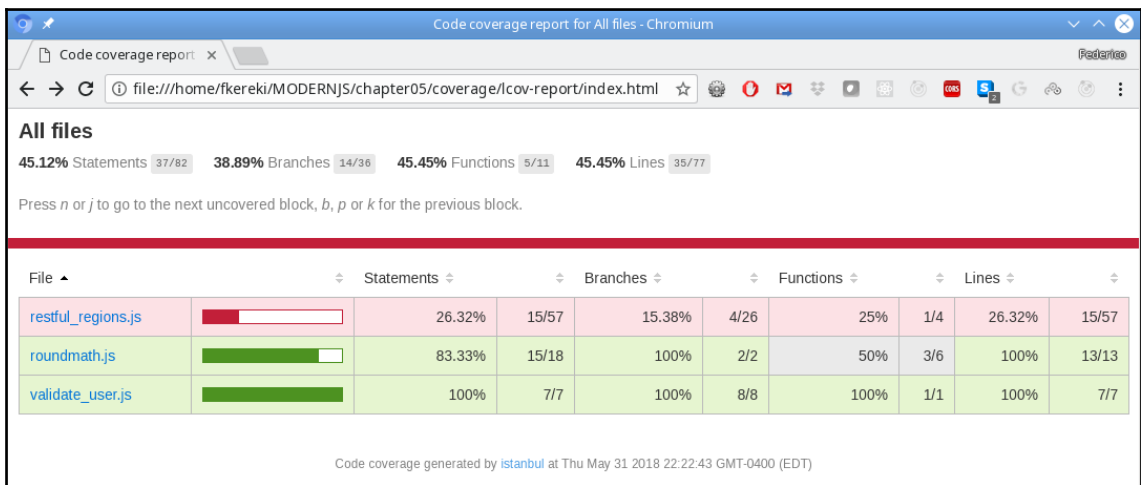
```
> npm test

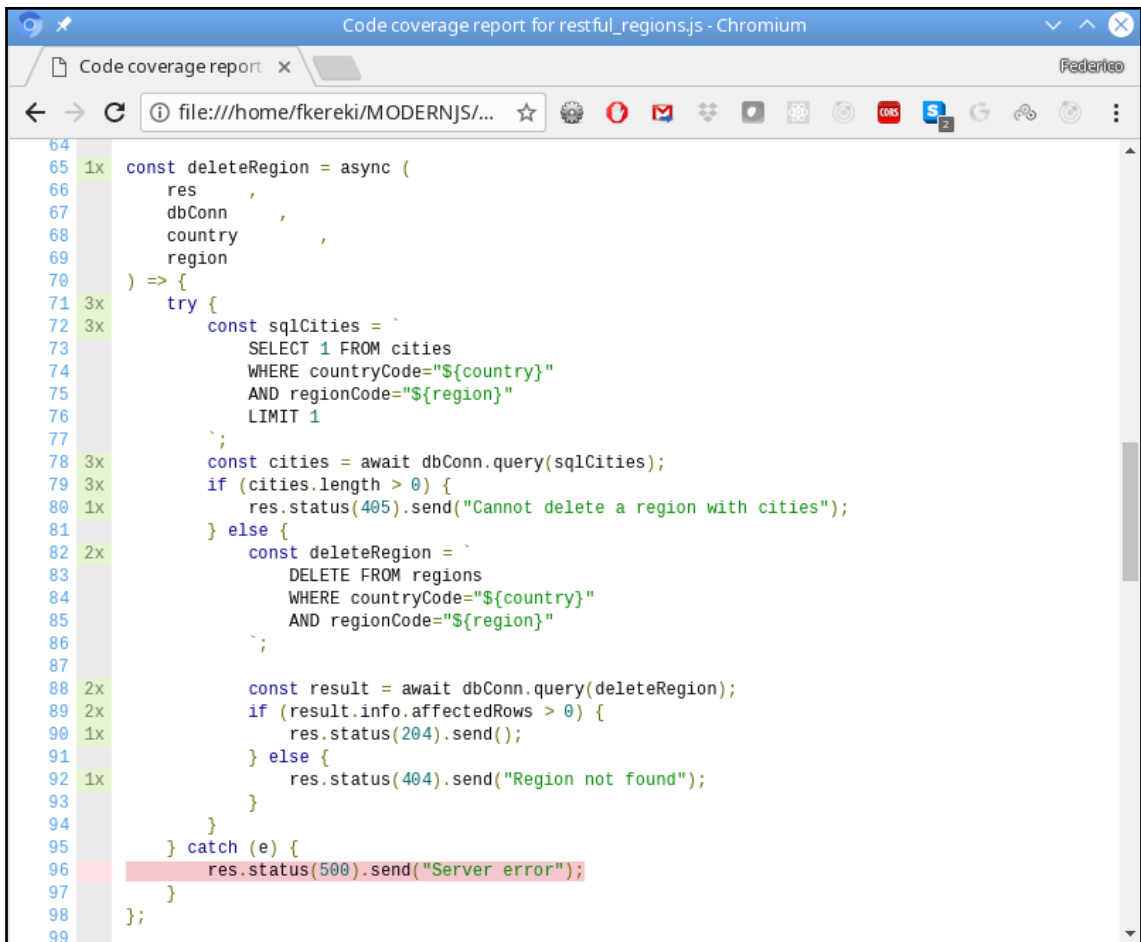
> simpleproject@1.0.0 test /home/fkerek/MODERNJS/chapter05
> jest out/ --coverage --no-cache
```

```
PASS out/validate_user.test.js
PASS out/roundmath.test.js
PASS out/restful_regions.test.js
```

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	45.12	38.89	45.45	45.45	
restful_regions.js	26.32	15.38	25	26.32	... 72,173,175,178
roundmath.js	83.33	100	50	100	
validate_user.js	100	100	100	100	

```
Test Suites: 3 passed, 3 total
Tests:       10 passed, 10 total
Snapshots:   0 total
Time:        1.869s
Ran all test suites matching /out\/i.
> █
```



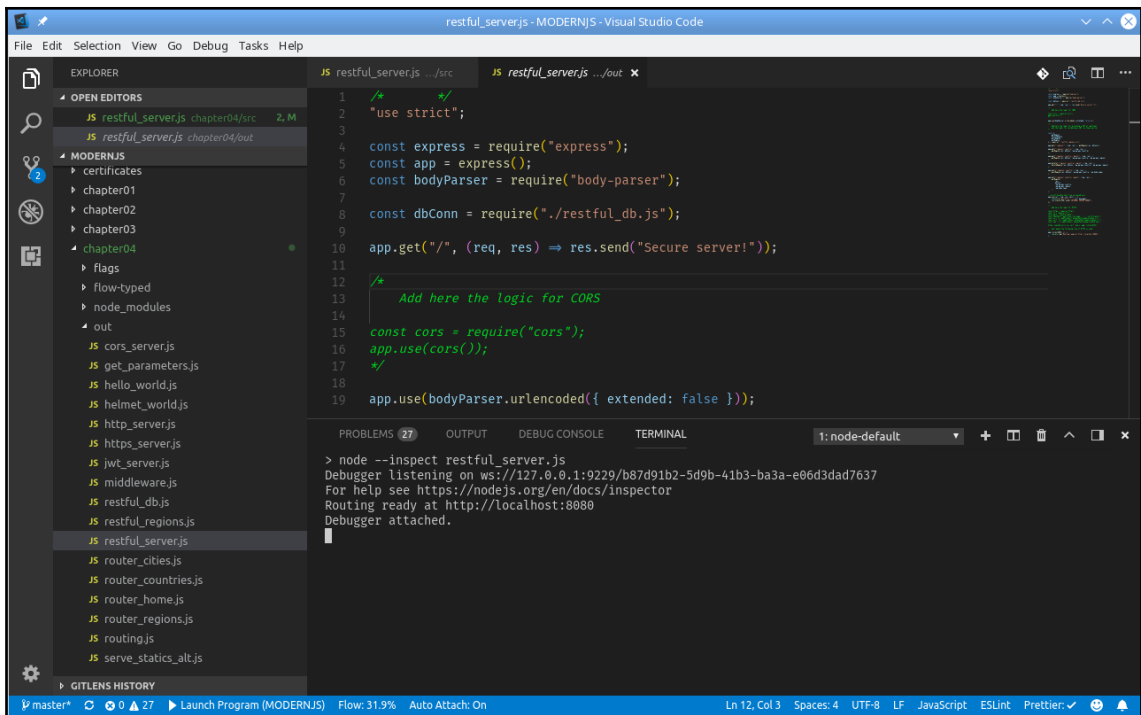


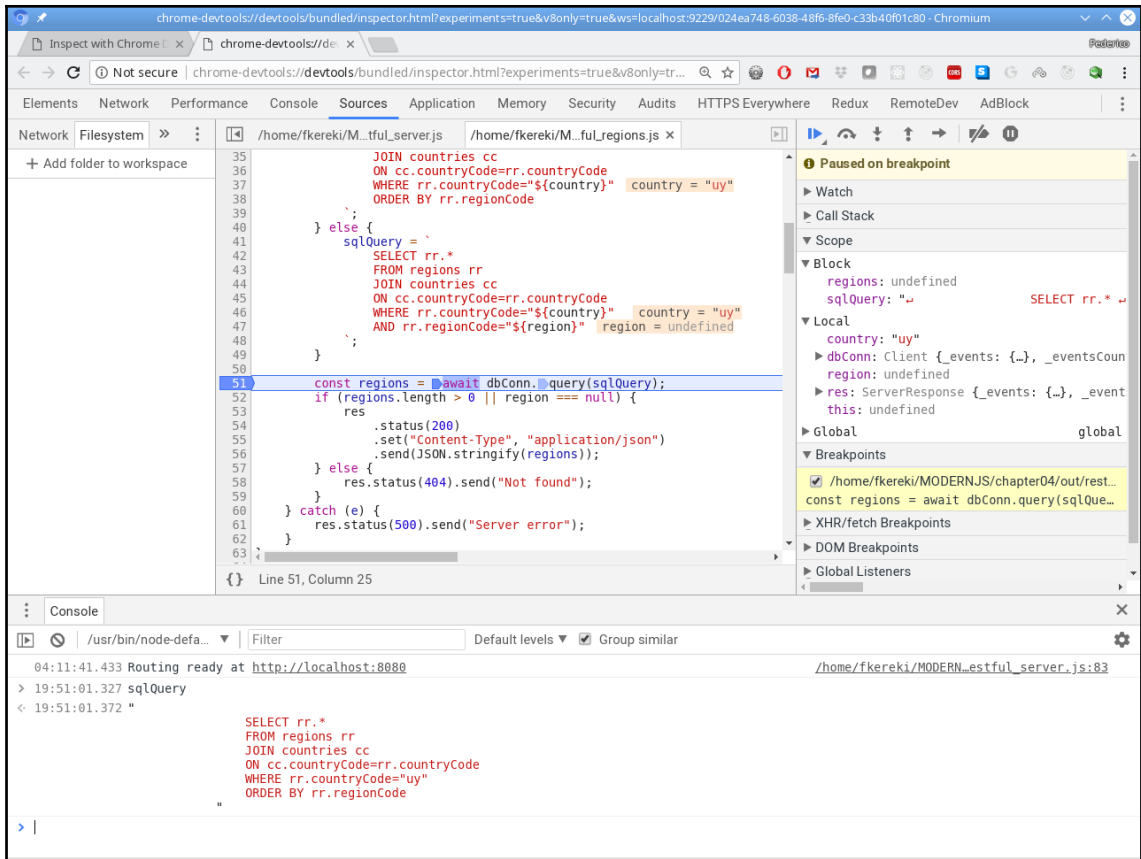
Code coverage report for restful_regions.js - Chromium

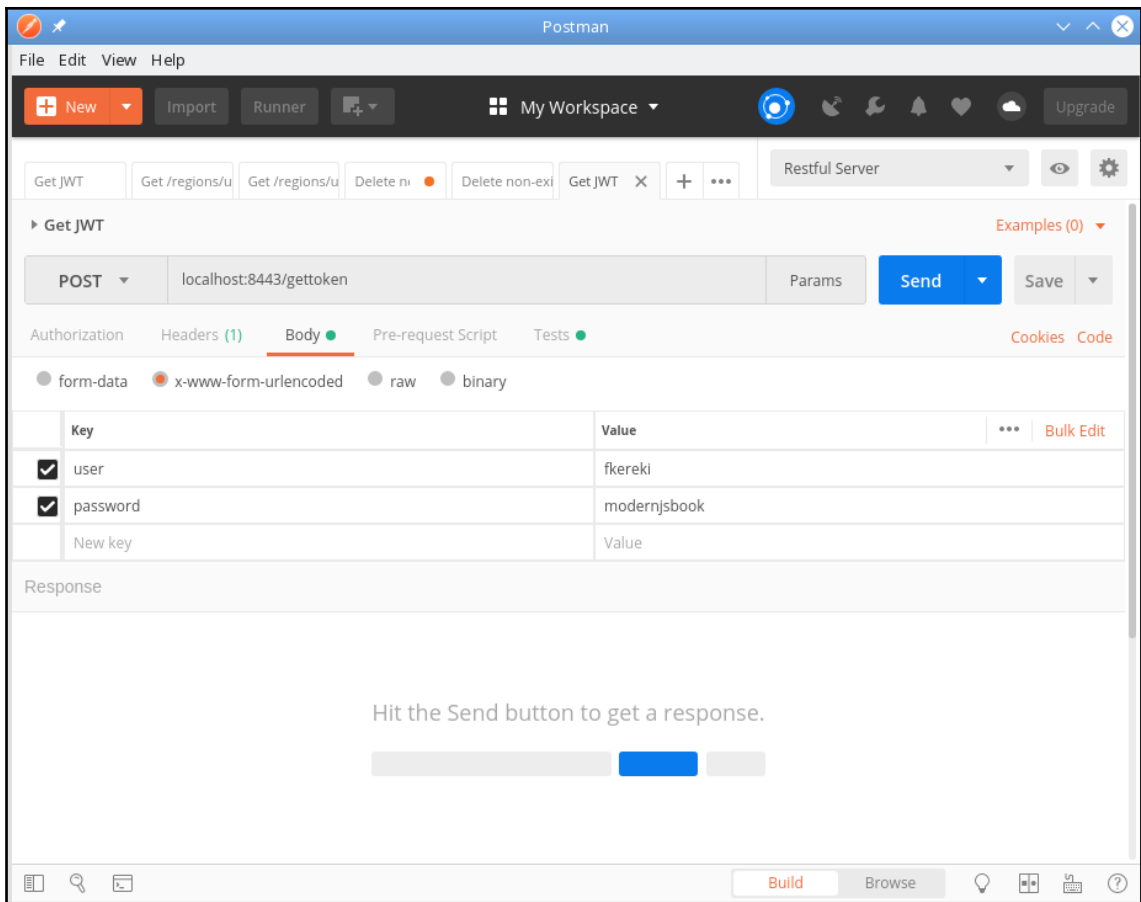
Code coverage report x Federico

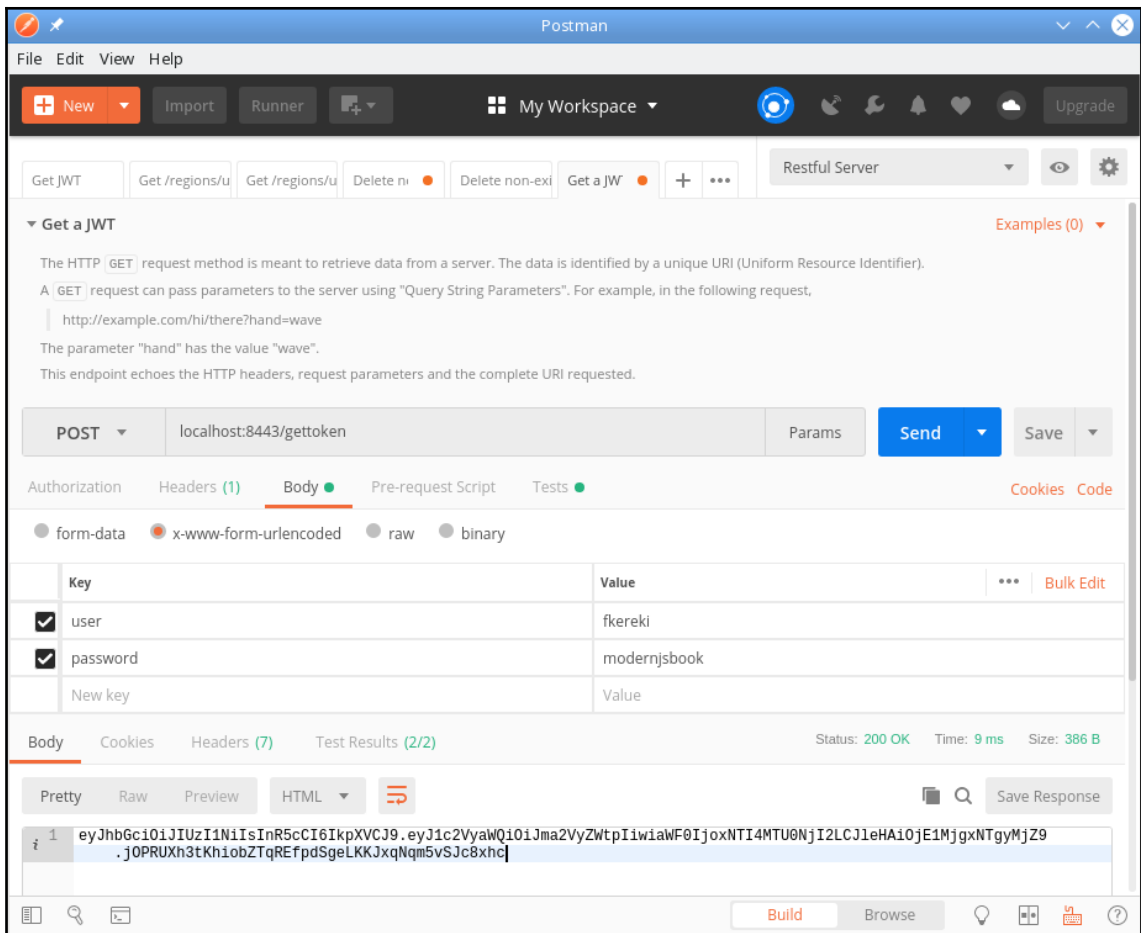
file:///home/fkereki/MODERNJS/...

```
64
65 1x const deleteRegion = async (
66     res
67     , dbConn
68     , country
69     , region
70 ) => {
71 3x   try {
72 3x     const sqlCities = `
73       SELECT 1 FROM cities
74       WHERE countryCode="${country}"
75       AND regionCode="${region}"
76       LIMIT 1
77     `;
78 3x     const cities = await dbConn.query(sqlCities);
79 3x     if (cities.length > 0) {
80 1x       res.status(405).send("Cannot delete a region with cities");
81     } else {
82 2x       const deleteRegion = `
83         DELETE FROM regions
84         WHERE countryCode="${country}"
85         AND regionCode="${region}"
86       `;
87
88 2x       const result = await dbConn.query(deleteRegion);
89 2x       if (result.info.affectedRows > 0) {
90 1x         res.status(204).send();
91       } else {
92 1x         res.status(404).send("Region not found");
93       }
94     }
95   } catch (e) {
96     res.status(500).send("Server error");
97   }
98 };
99
```







MANAGE ENVIRONMENTS

Edit Environment

Restful Server

	Key	Value	Bulk Edit
	☒ token		
	New key	Value	

Cancel

Update

Postman

File Edit View Help

New Import Runner

My Workspace

Restful Server

Get JWT

Get /regions/u

Get /regions/u

Delete n

Delete non-ex

Get a JW

+

...

POST

localhost:8443/gettoken

Params

Send

Save

Body

Cookies

Headers (7)

Test Results (2/2)

Status: 200 OK

Time: 8 ms

Size: 386 B

All

Passed

Skipped

Failed

PASS

Response is long enough

PASS

Response has three parts

Build

Browse

Collection Runner

File Edit View Help

Collection RunnerRun ResultsMy WorkspaceRun In Command LineDocs

12 PASSED0 FAILED

Restful server testing for regionsRestful Server

Run SummaryExport ResultsRetryNew

just now

Iteration 1

POSTGet a JWTlocalhost:8443/gettoken...r regions / Test Delete / Get a JWT200 OK3 ms153 B

PASSResponse is long enough

PASSResponse has three parts

DELETEDelete non-existing regionlocalhost:8443/regions/z...elete / Delete non-existing region404 Not Found4 ms16 B

PASSStatus code is 404

POSTGet JWTlocalhost:8443/gettoken...ng for regions / Test Get / Get JWT200 OK2 ms153 B

PASSResponse is long enough

PASSResponse has three parts

GETGet /regions/uylocalhost:8443/regions/uy...glons / Test Get / Get /regions/uy200 OK4 ms1.25 KB

PASSAnswer should be JSON

PASSAnswer should have at least 19 regions

GETGet /regions/uy/10localhost:8443/regions/u...ns / Test Get / Get /regions/uy/10200 OK2 ms64 B

PASSAnswer has a single region

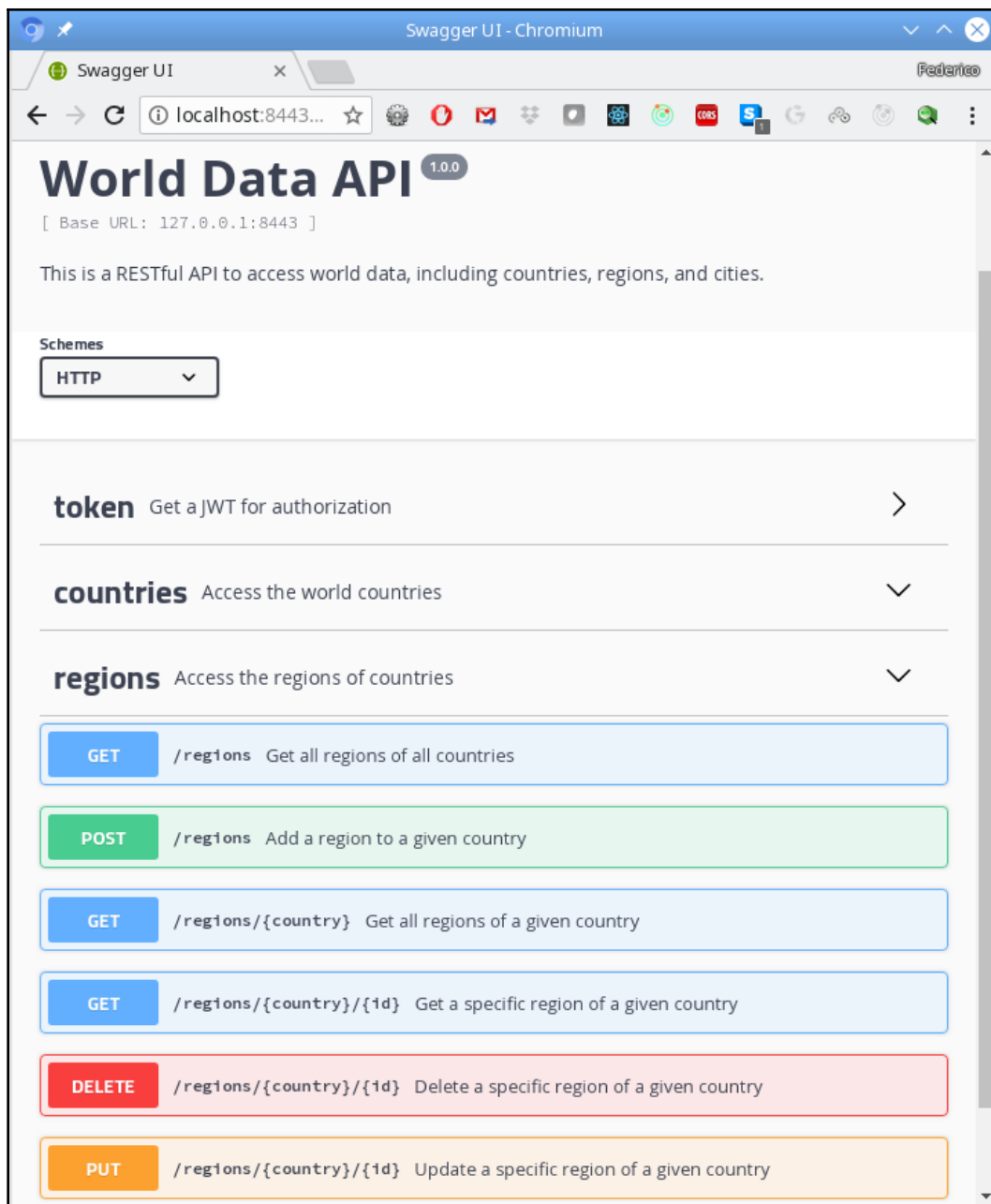
PASSCountry code is UY

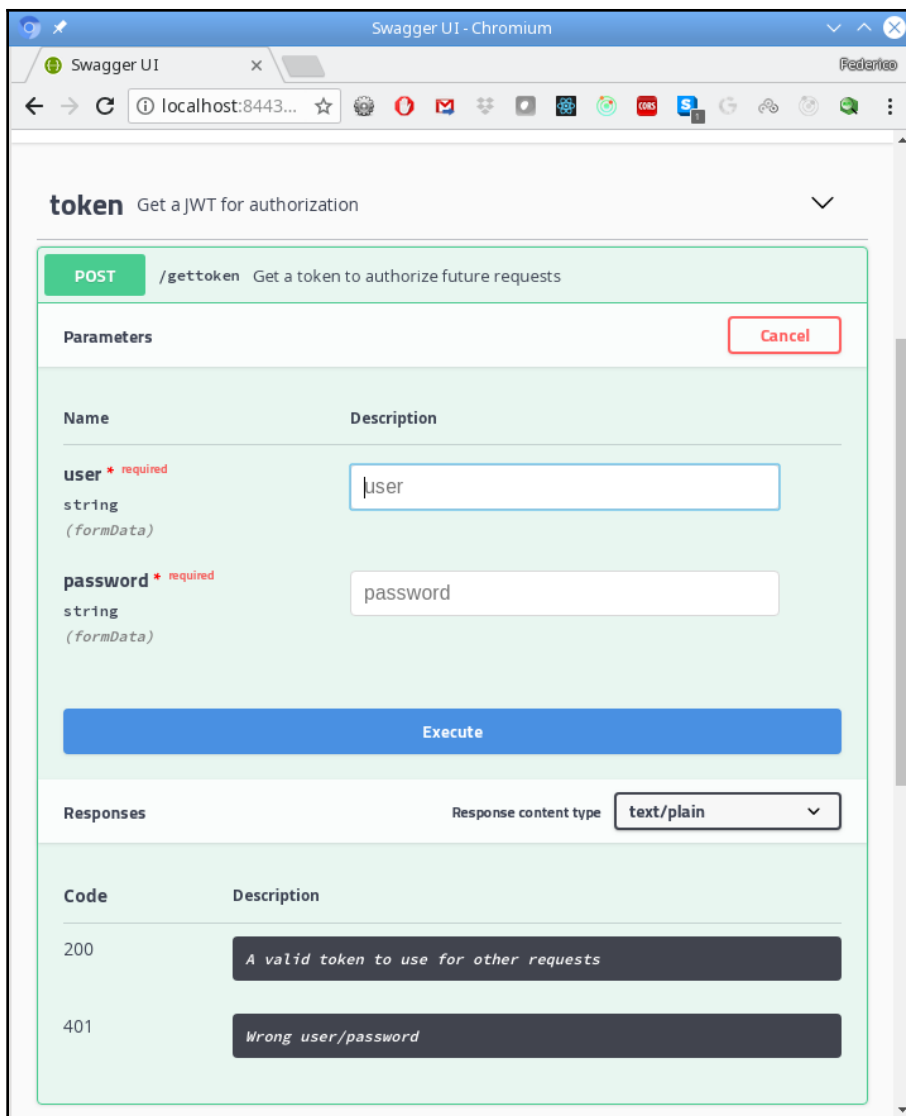
PASSRegion code is 11

PASSRegion name is Paysandu

PASSAnswer is valid, JSON

	executed	failed
iterations	1	0
requests	5	0
test-scripts	10	0
<u>prerequest</u> -scripts	5	0
assertions	12	0
total run duration: <u>212ms</u>		
total data received: <u>1.6KB</u> (approx)		
average response time: <u>4ms</u>		





Swagger UI - Chromium

Swagger UI

localhost:8443...

Responses

Response content type: text/plain

Curl

```
curl -X POST "http://127.0.0.1:8443/gettoken" -H "accept: text/plain" -H "Content-Type: application/x-www-form-urlencoded" -d "user=fkerek1&password=modernjsbook"
```

Request URL

http://127.0.0.1:8443/gettoken

Server response

Code	Details
200	Response body <pre>eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyYWQ1MDJma2VyZWtpIiwiaWF0IjoxNTI4MjQyNTI2LCJleHA1OjE1MjgyNDYxMjZ9.q-u5ByRJ-Kq3ngPX1tRz9hxEVWyr000bm40FNJRpmAw</pre> Download Response headers <pre>content-type: text/html; charset=utf-8</pre>

Responses

Code	Description
200	<i>A valid token to use for other requests</i>
401	<i>Wrong user/password</i>

Swagger UI - Chromium

Swagger UI

localhost:8443...

GET /regions/{country} Get all regions of a given country

Parameters

Cancel

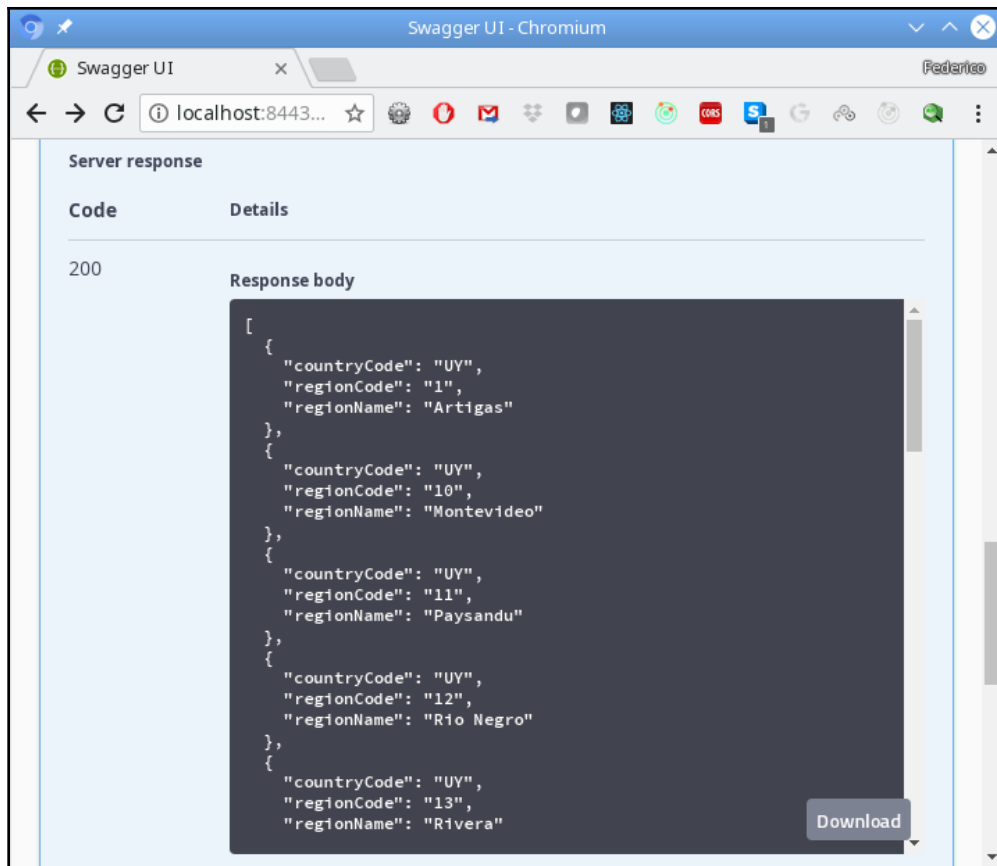
Name	Description
country * required string (path)	Country (id) whose regions are required
	UY
Authorization * required string (header)	Authorization Token
	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXV

Execute

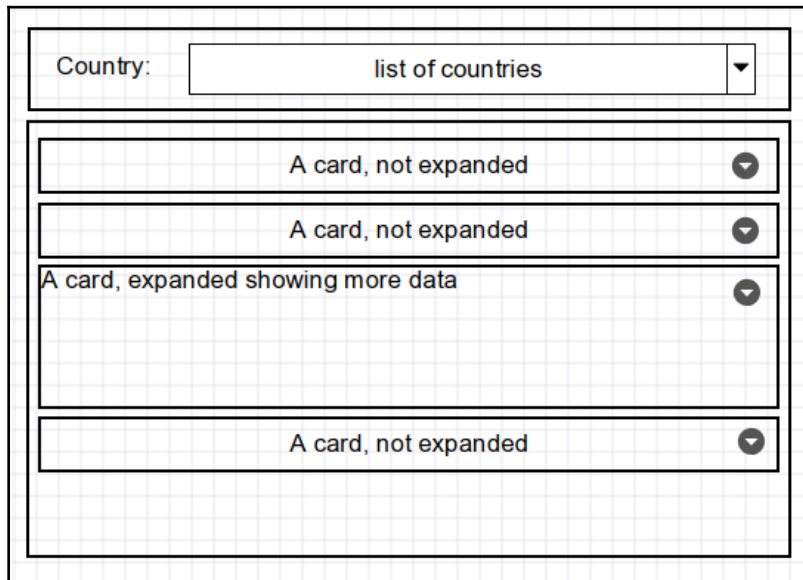
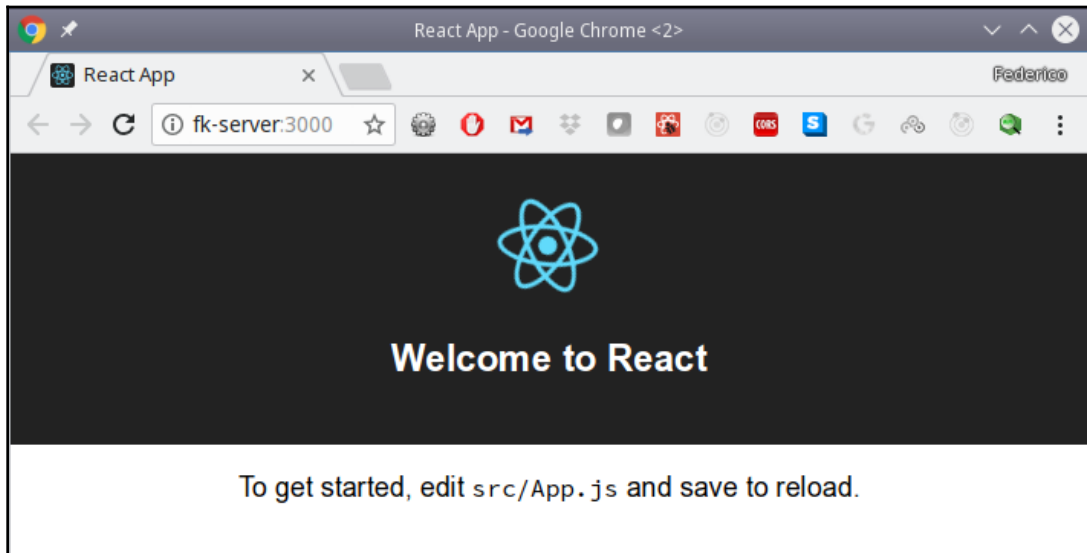
Clear

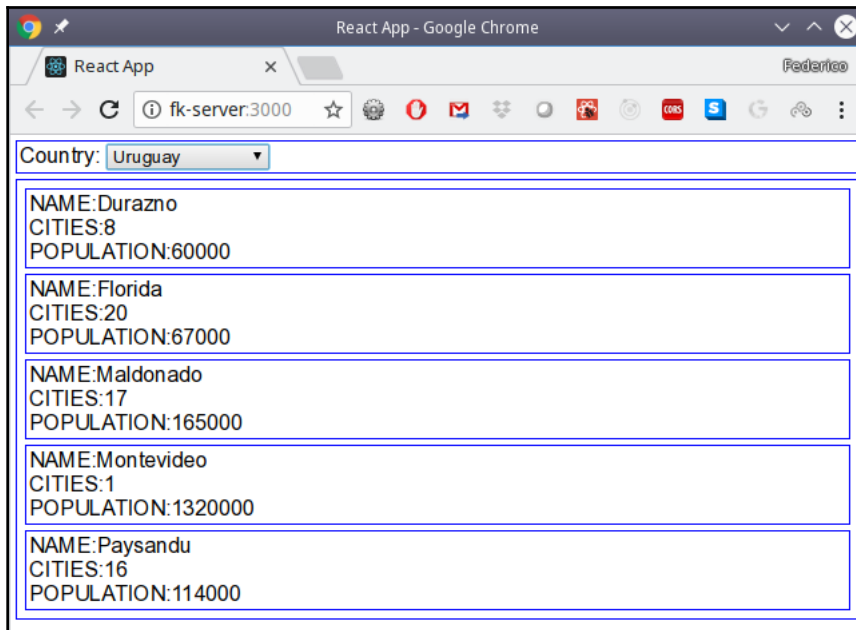
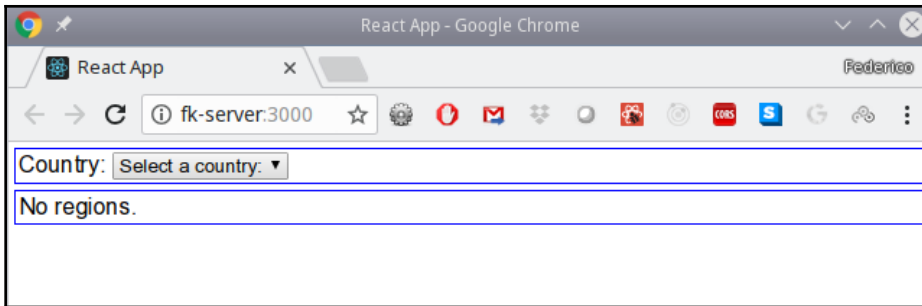
Responses

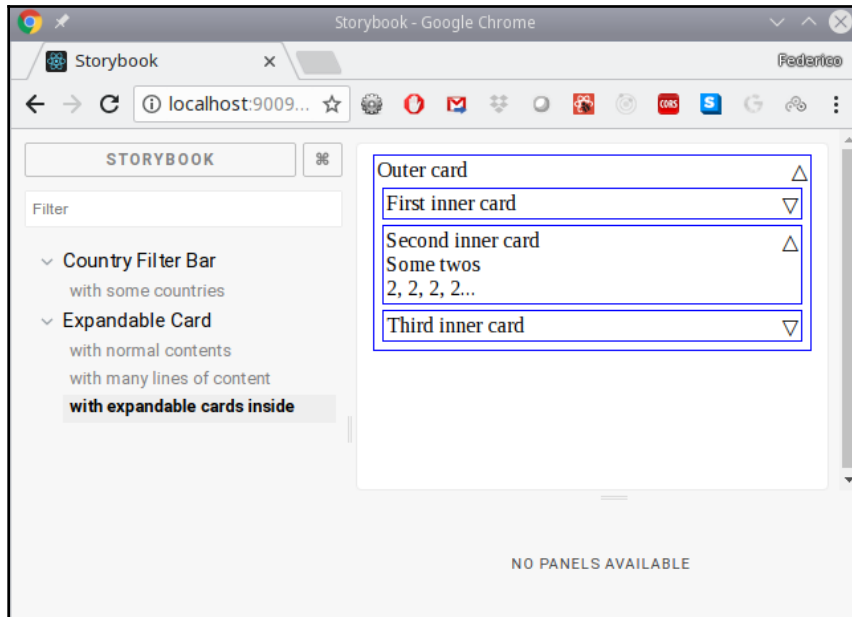
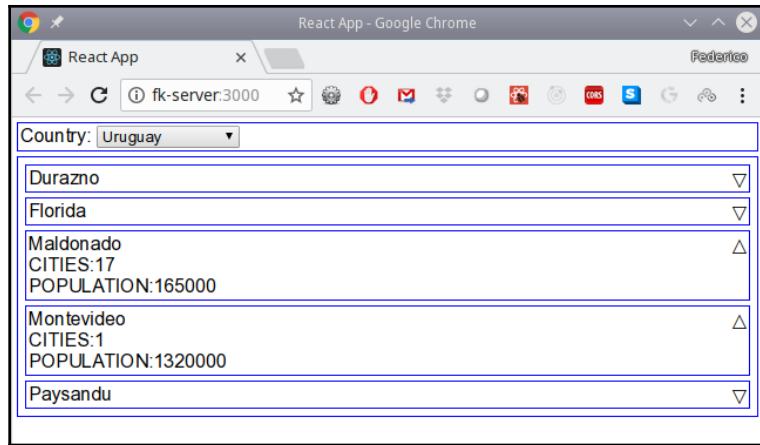
Response content type application/json

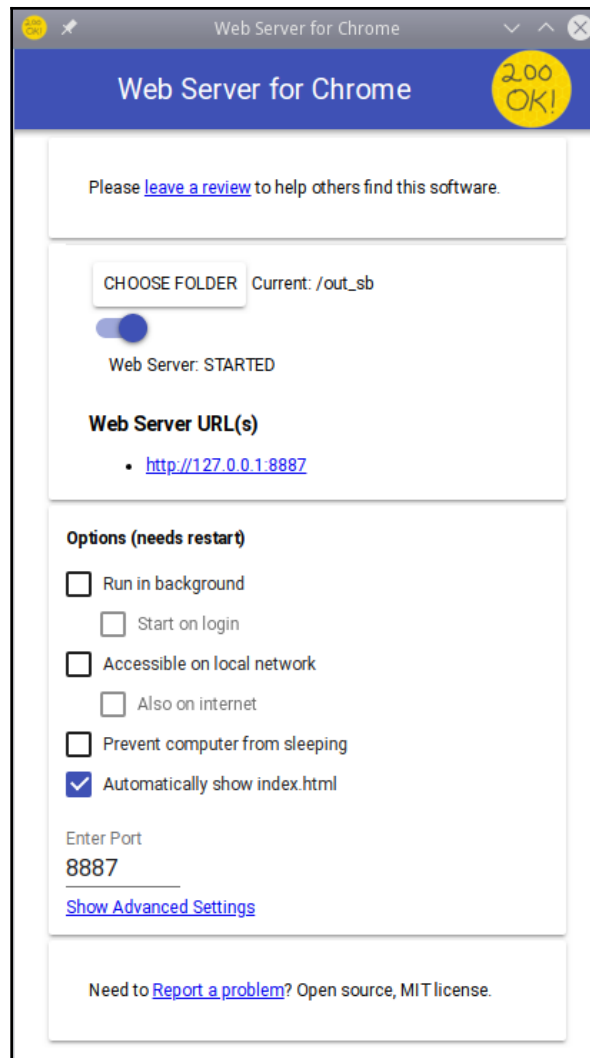


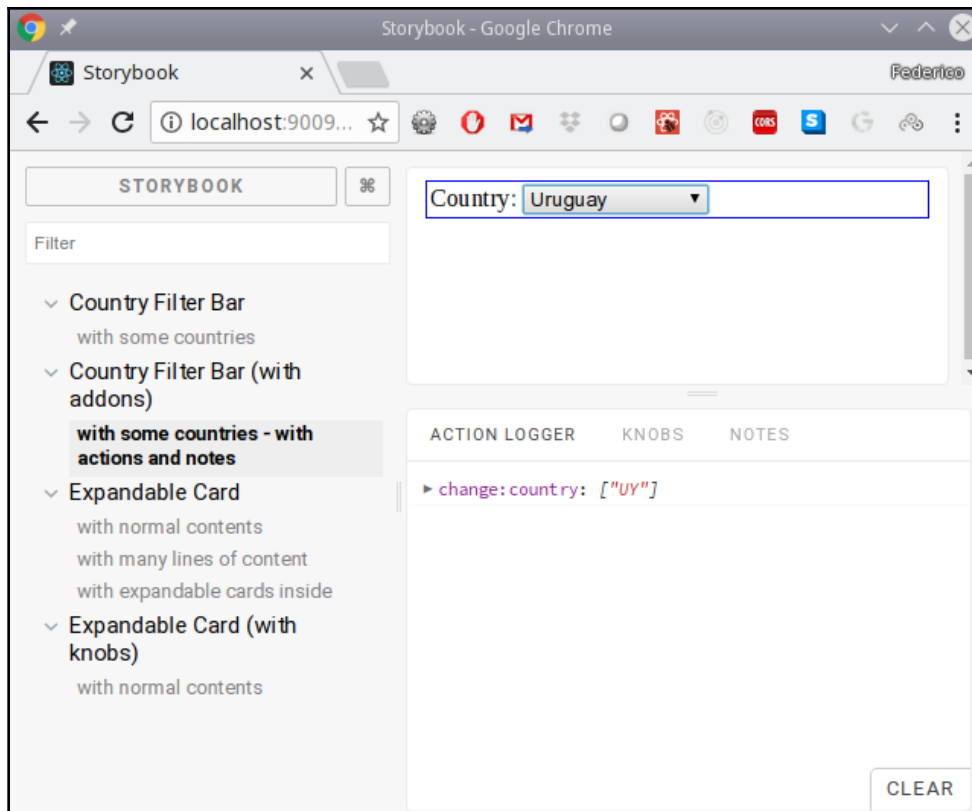
Chapter 6: Developing with React

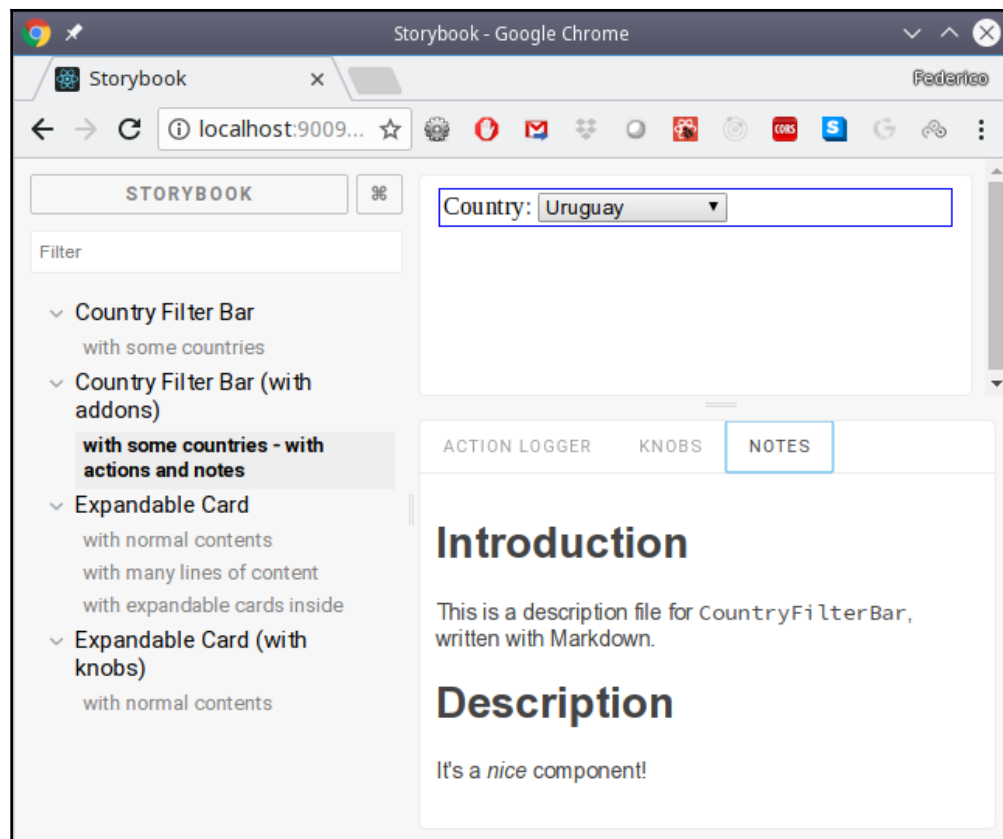


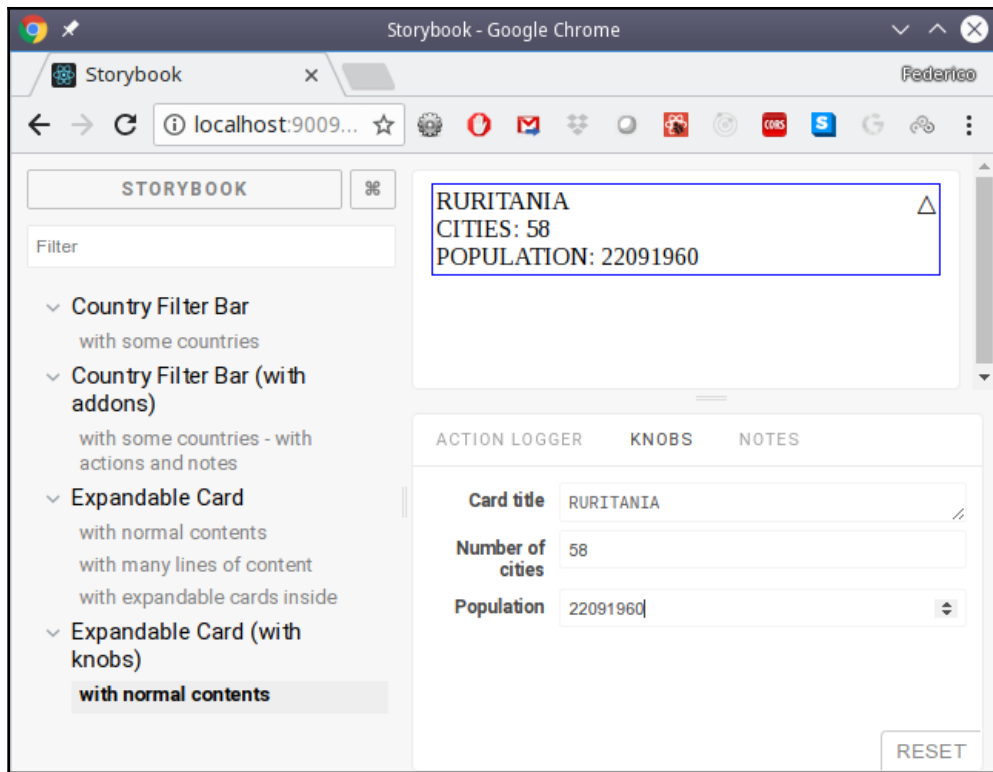




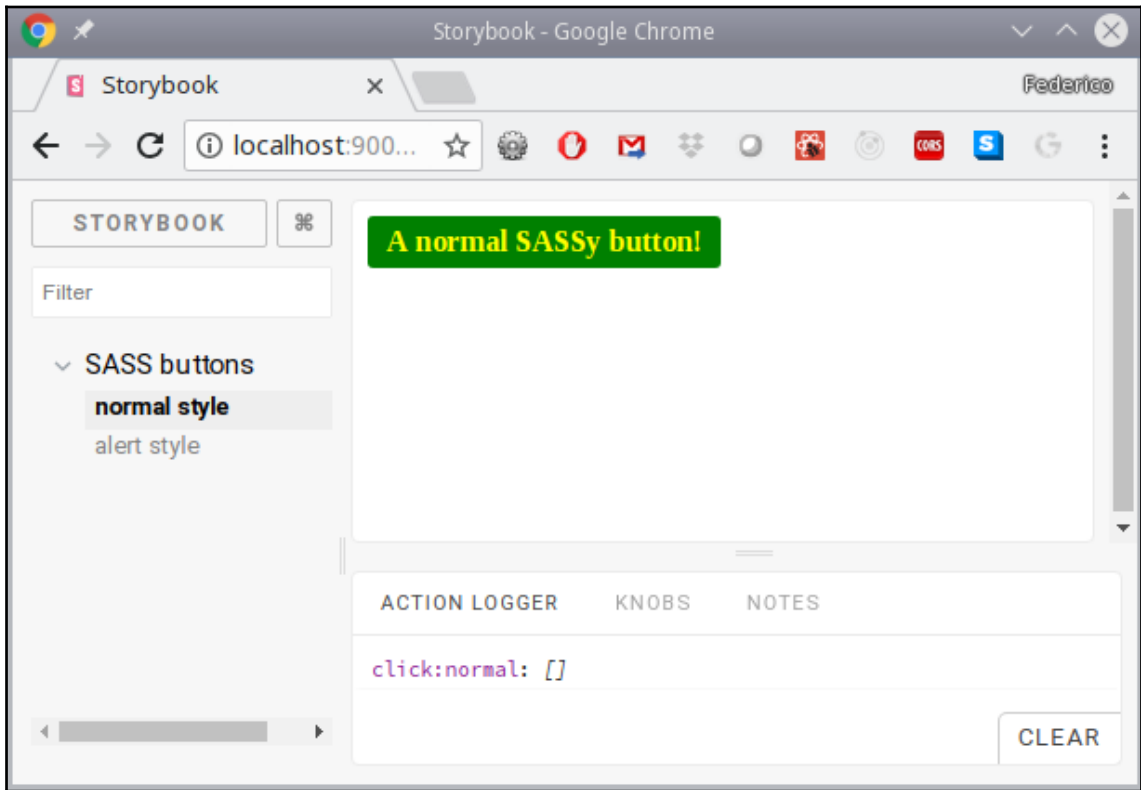


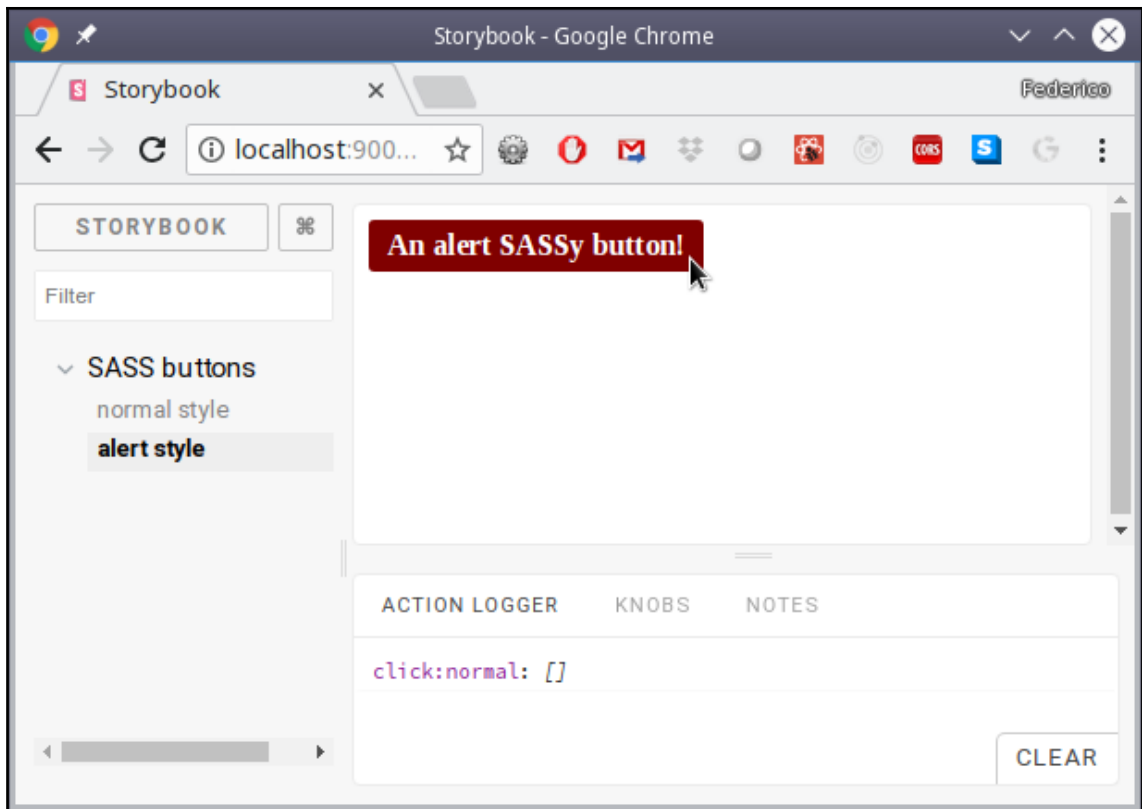


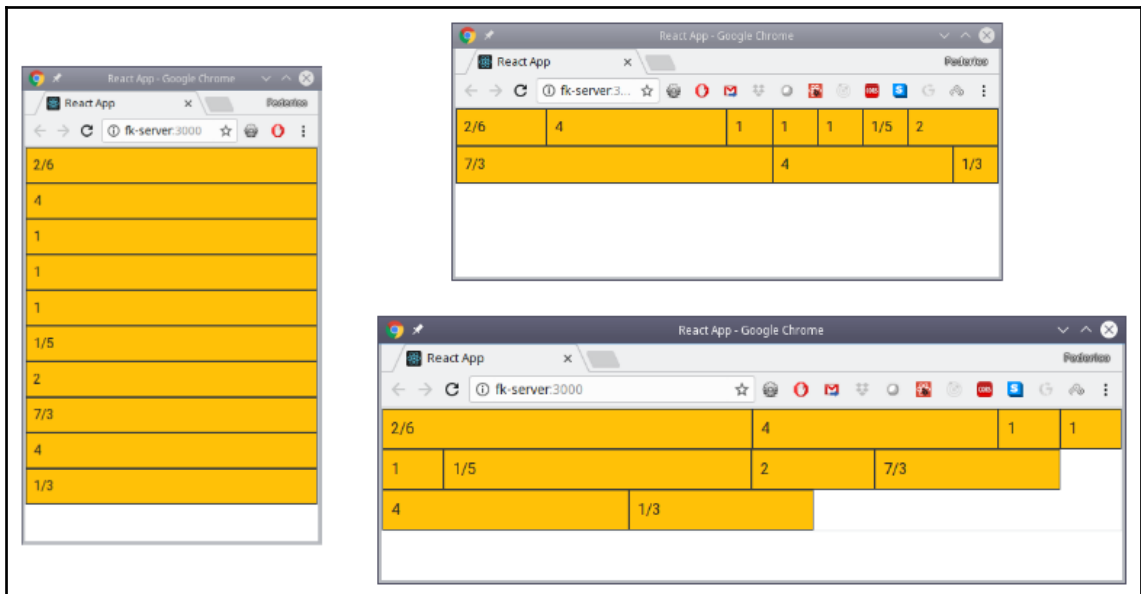
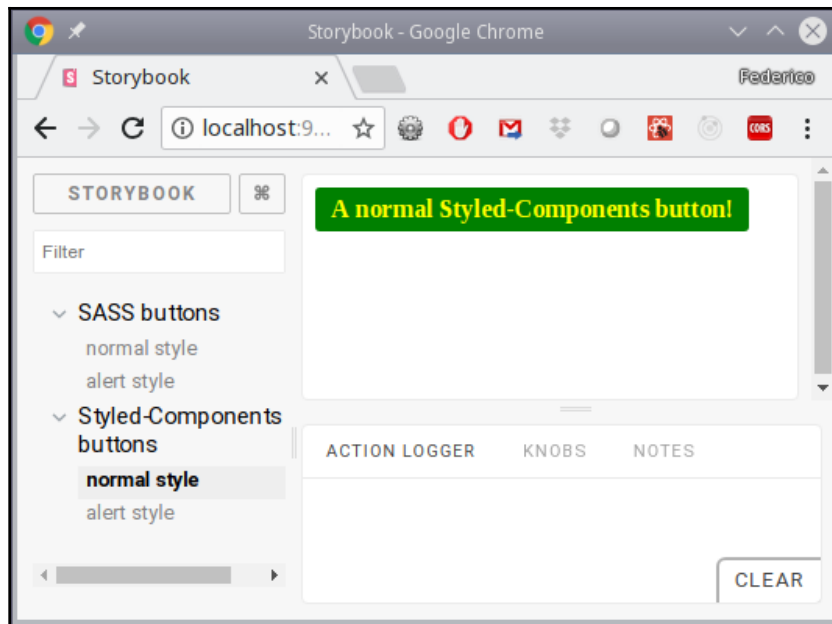


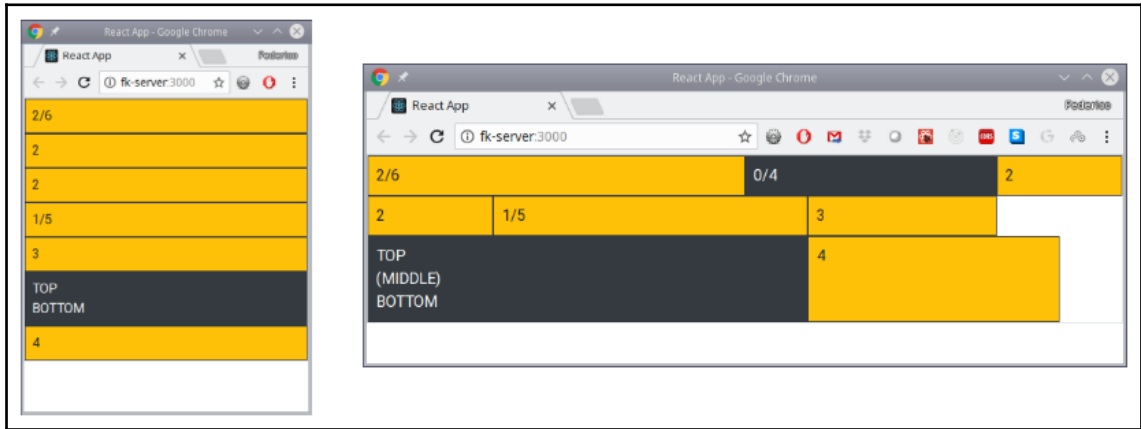
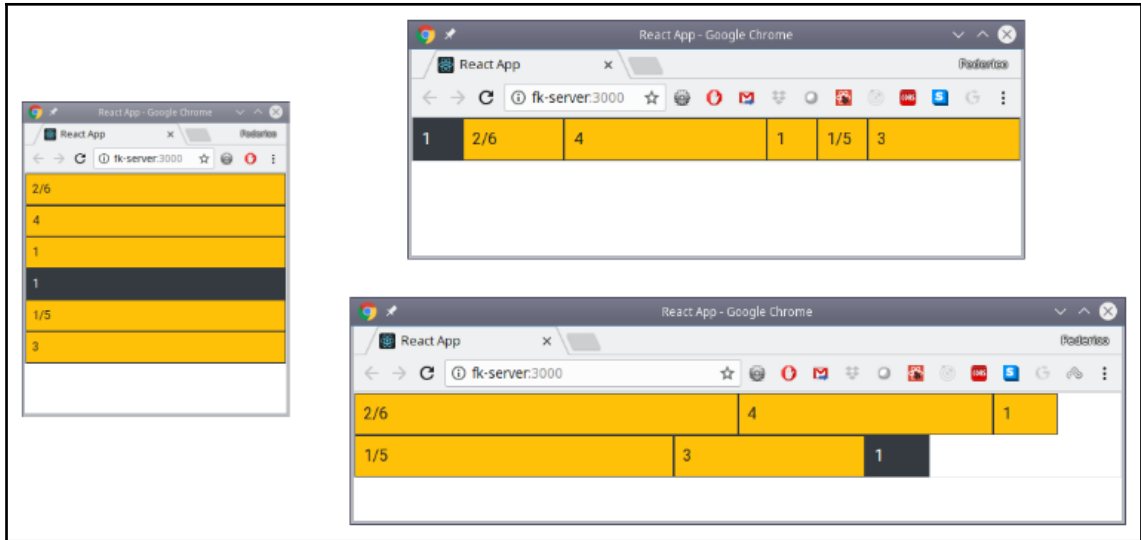


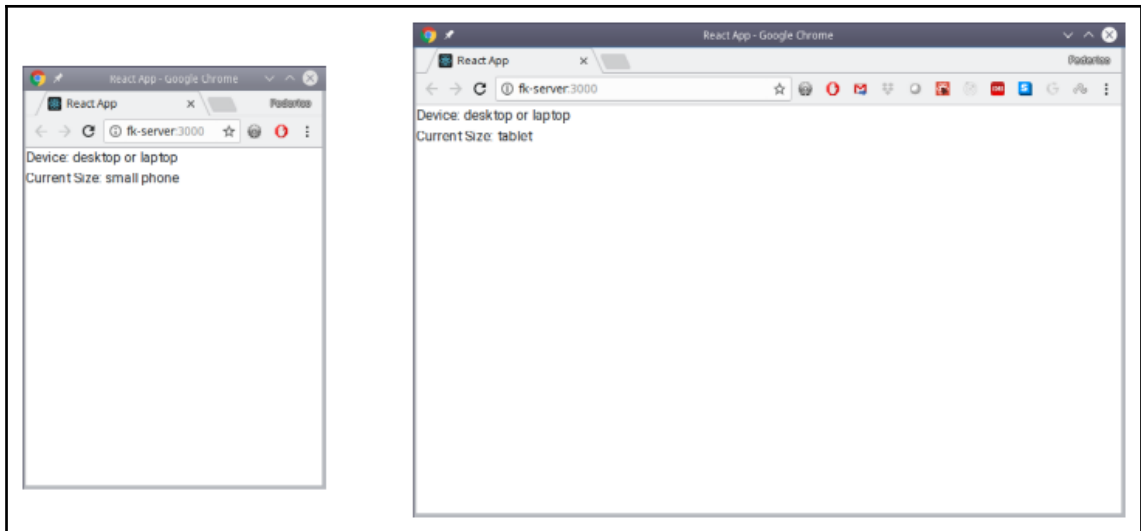
Chapter 7: Enhancing Your Application

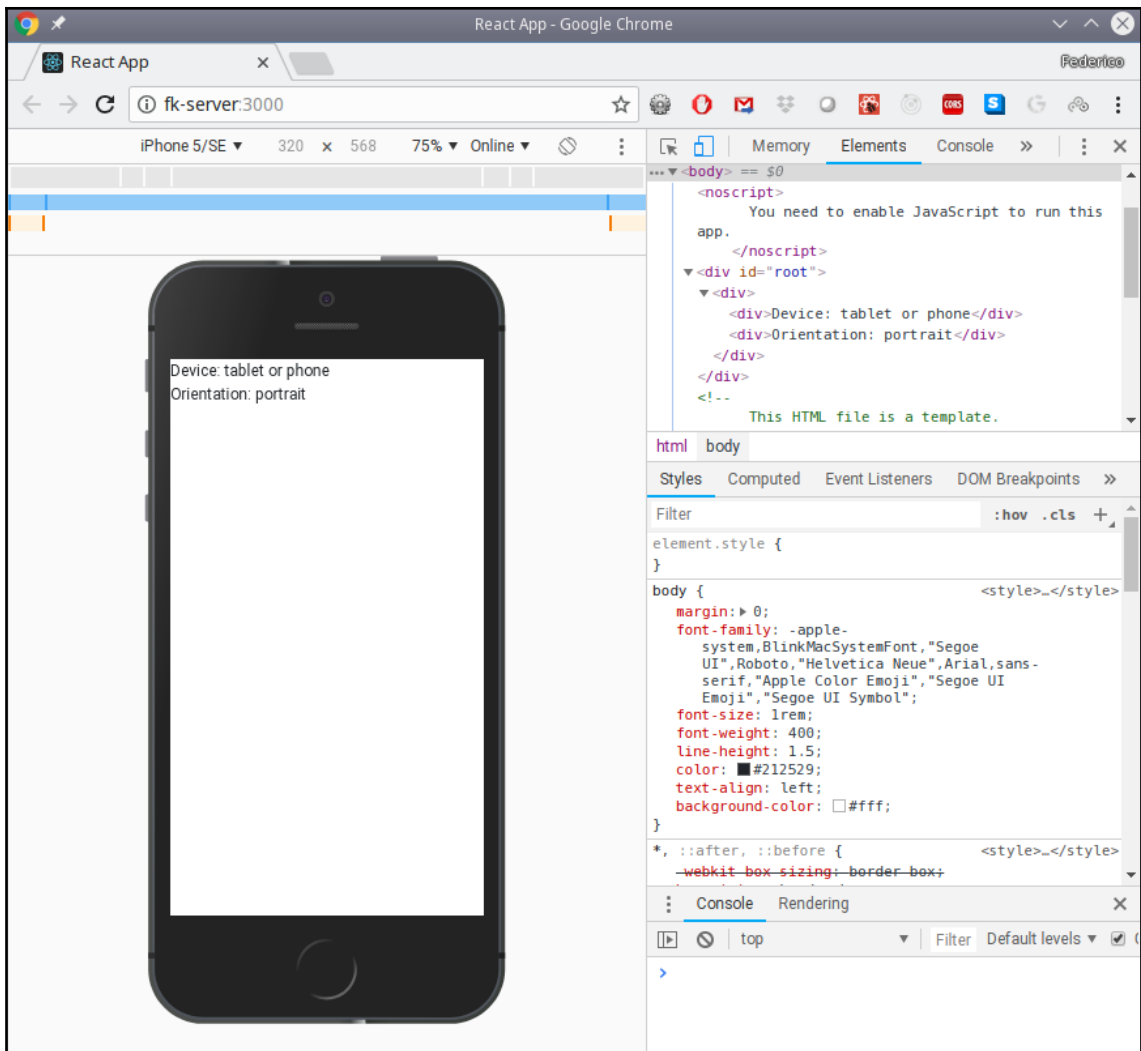


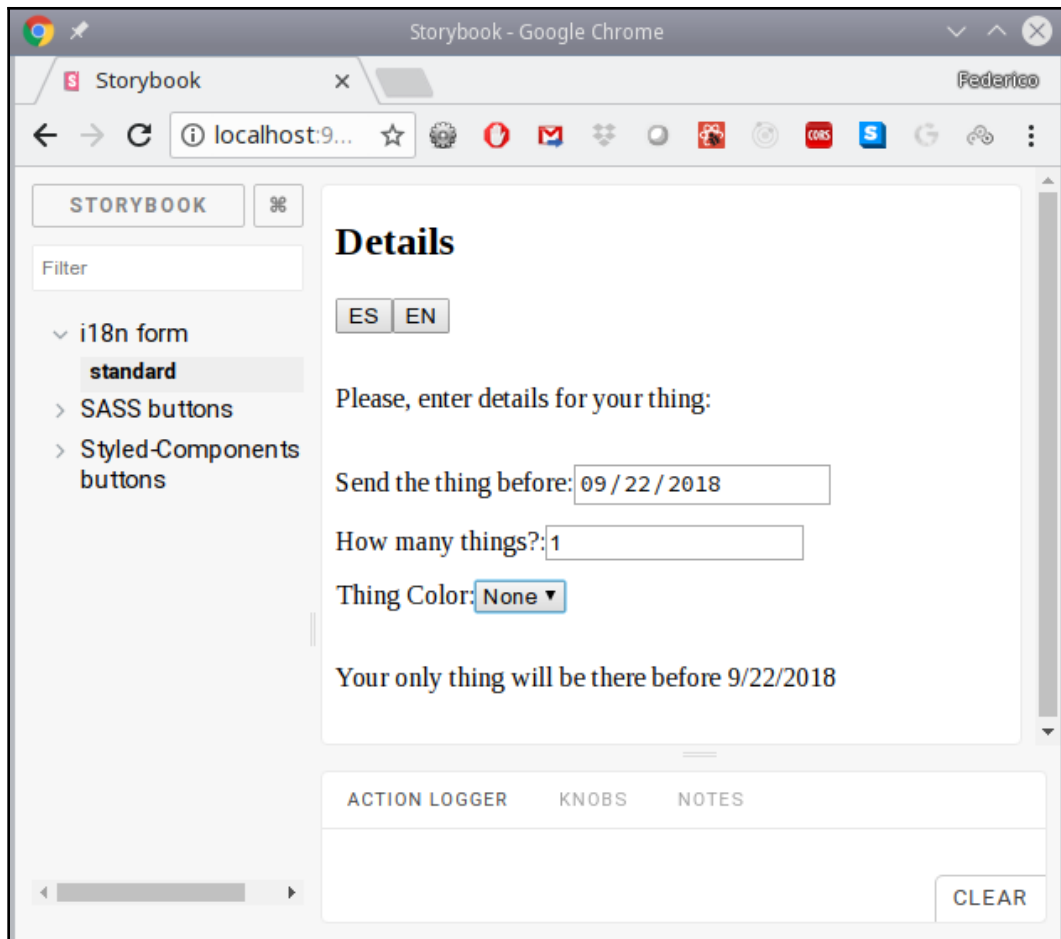


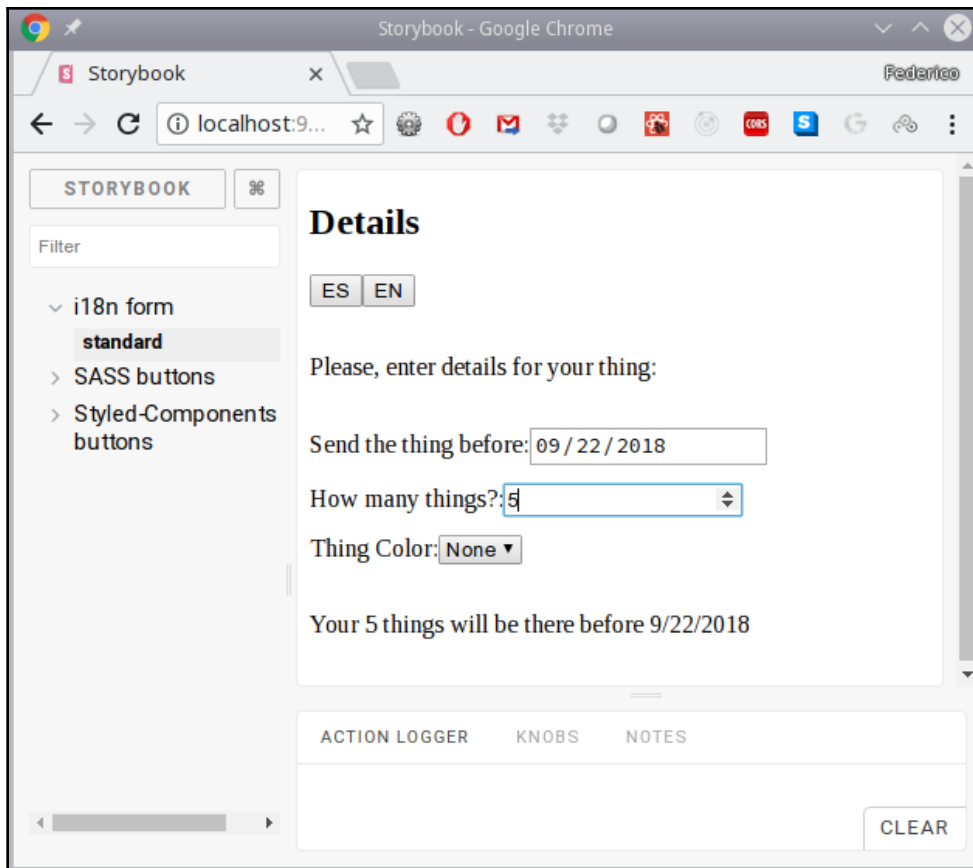


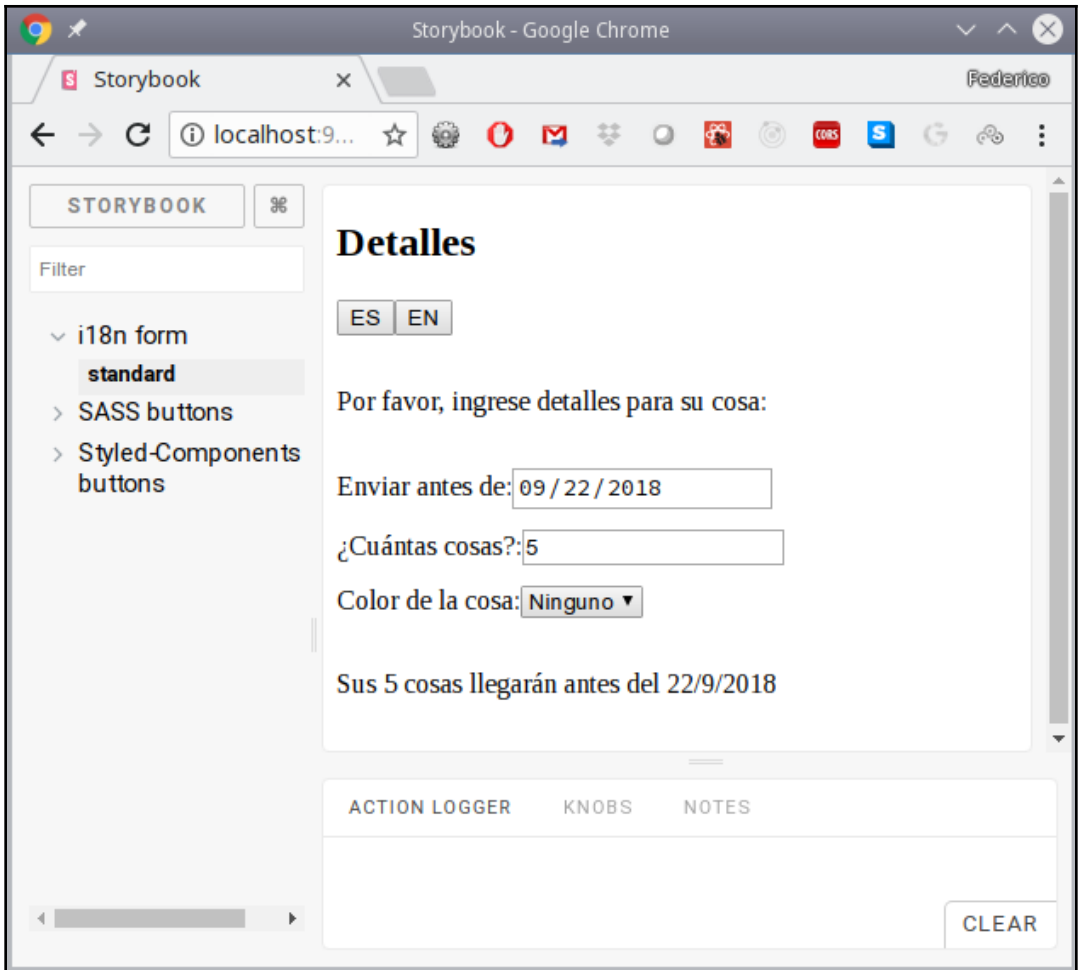












```

 8  export class SassButton extends React.PureComponent<{
 9      normal: boolean,
10      buttonText: string,
11      onSelect: () => void
12  }> {
13      static propTypes = {
14          normal: PropTypes.bool,
15          buttonText: PropTypes.string,
16          onSelect: PropTypes.func,
17      };
18      // You, 3
19      render() {
20          return (
21              <div
22                  className={
23                      this.props.normal ? "normalButton" : "alertButton"
24                  }
25                  onClick={this.props.onSelect}
26              >
27                  <span>{this.props.buttonText}</span>
28              </div>
29          );
30      }
31  }

```

[eslint] Visible, non-interactive elements with click handlers must have at least one keyboard listener. (jsx-a11y/click-events-have-key-events)

[eslint] Static HTML elements with event handlers require a role. (jsx-a11y/no-static-element-interactions)

(property) JSX.IntrinsicElements.div: React.DetailedHTMLProps<React.HTMLAttributes<HTMLDivElement>, HTMLDivElement>

```

</div>
<div>
  <select
    onChange={e =>
      this.setState({ thingColor: e.target.value })
    }
  >
    <option value="NC">{t("colors.none")}</option>
    <option value="ST">{t("colors.steel")}</option>
    <option value="SD">{t("colors.sand")}</option>
  </select>

```

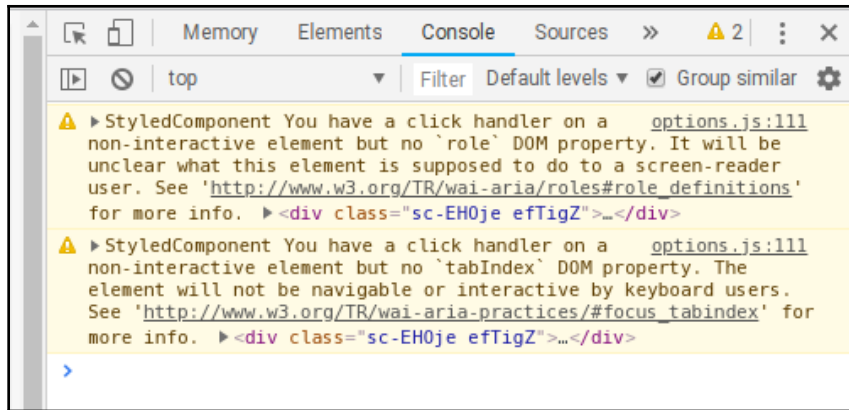
[eslint] onBlur must be used instead of onChange, unless absolutely necessary and it causes no negative consequences for keyboard only or screen reader users. (jsx-a11y/no-onchange)

```

[eslint] img elements must have an alt prop, either with meaningful text, or an empty string for decorative images. (jsx-a11y/alt-text)

<br />
<div>{t("please enter details")}</div>

```

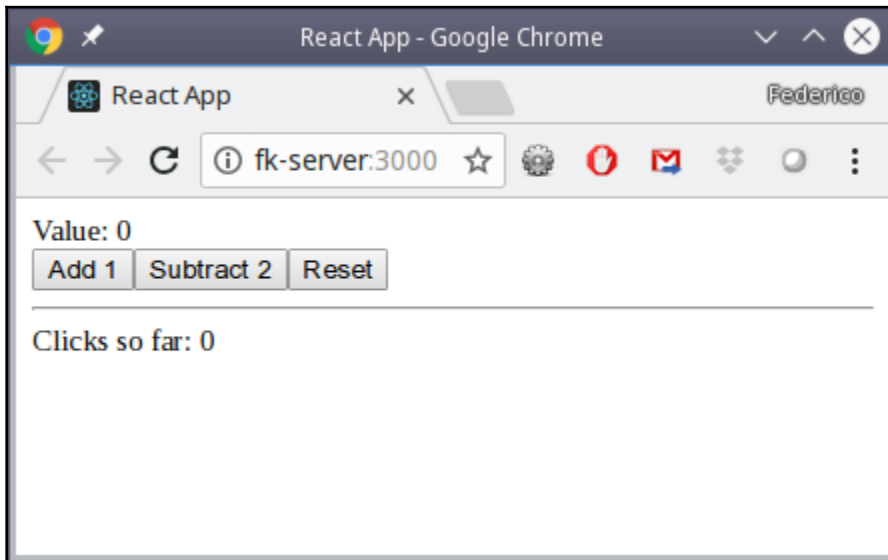
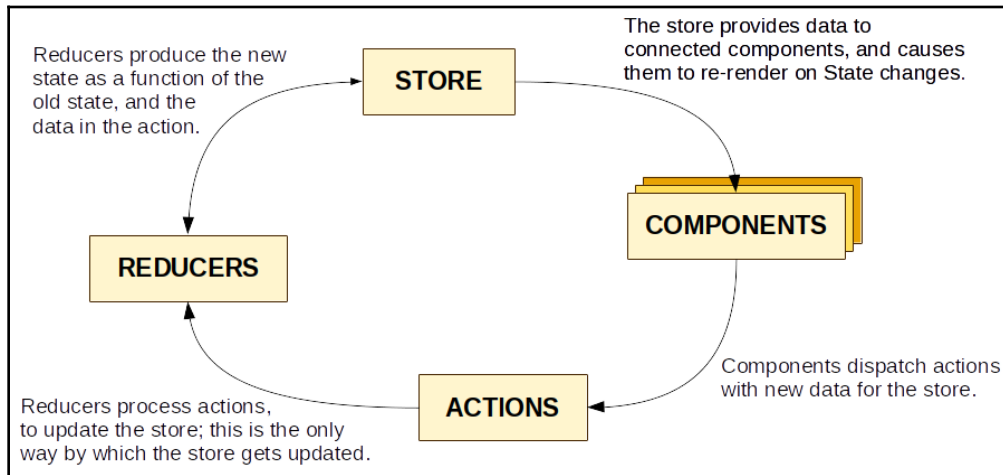


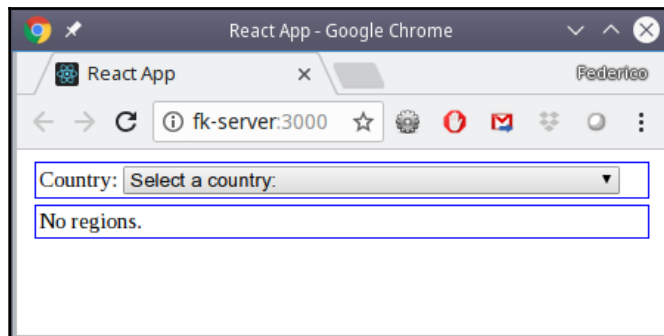
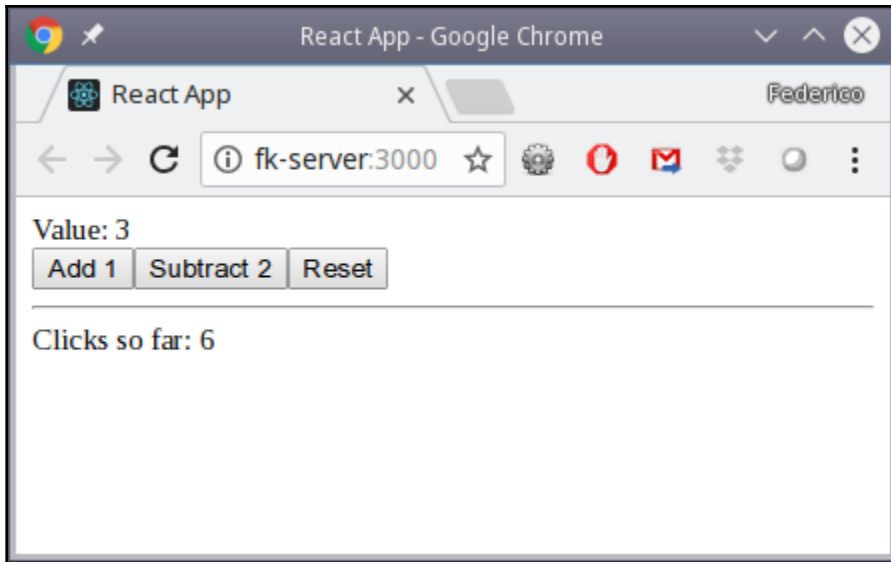
Your personal details

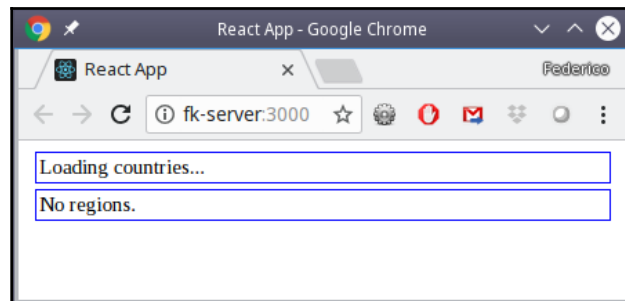
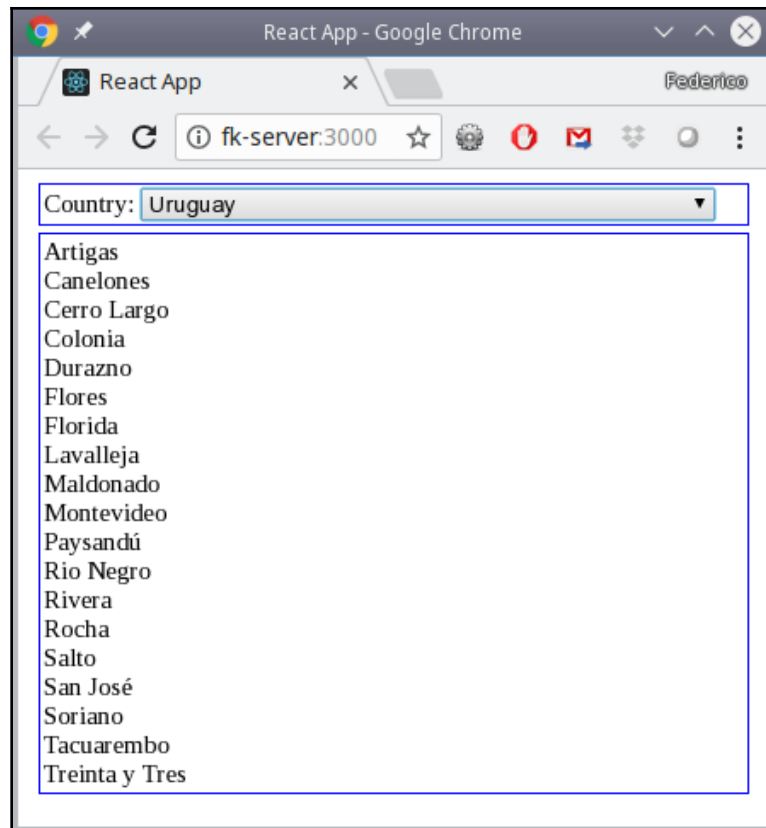
Full name
As shown on your birth certificate or passport
Error message about full name goes here

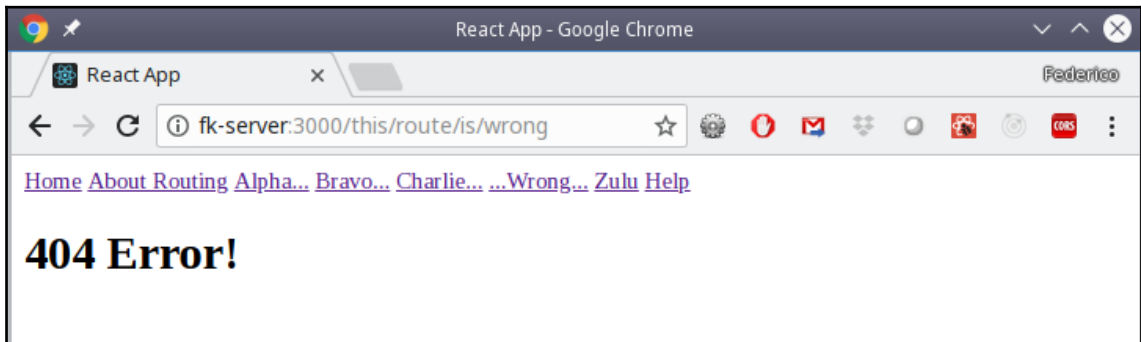
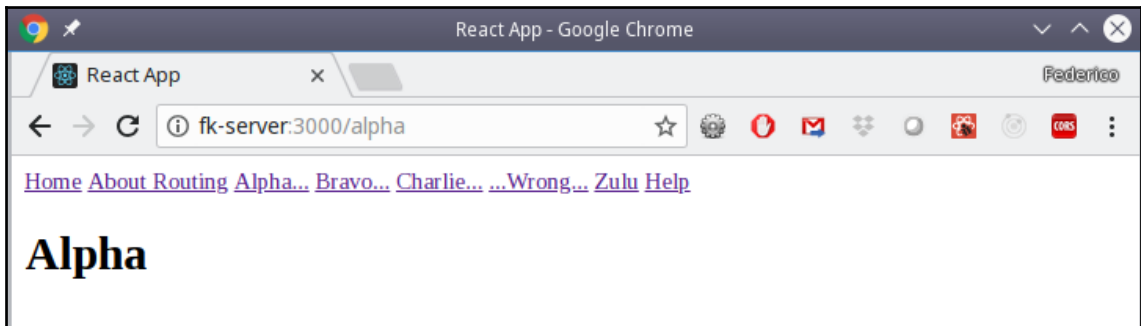
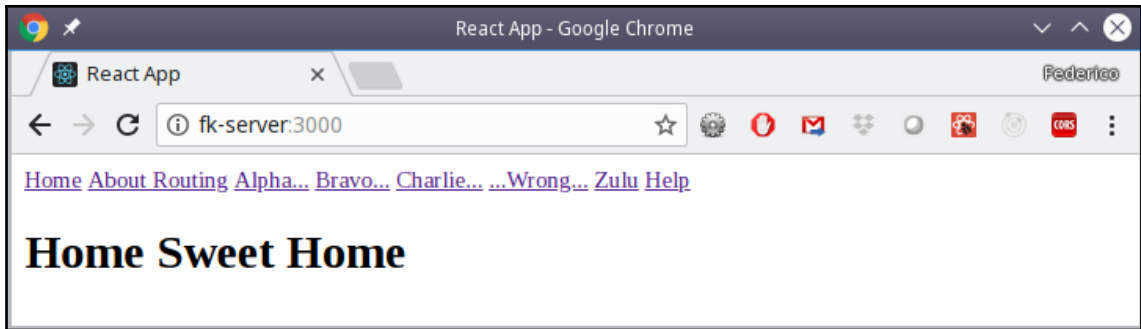
National Insurance number
It's on your National Insurance card, benefit letter, payslip or P60.
For example, 'QQ 12 34 56 C'.

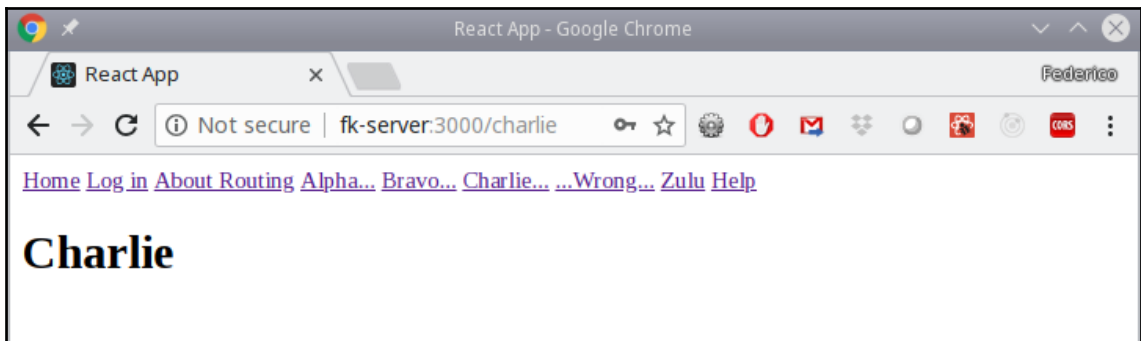
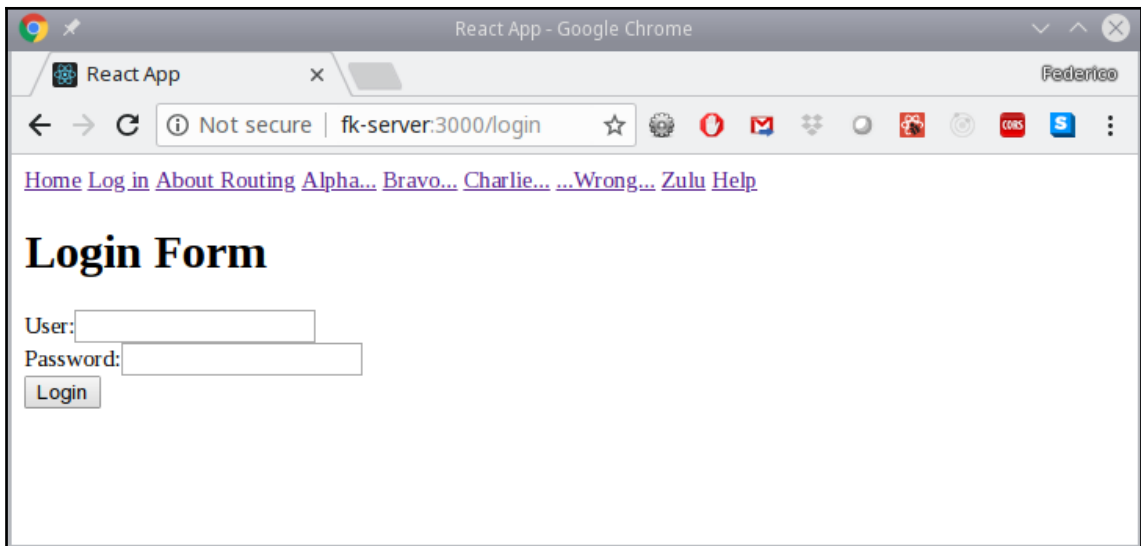
Chapter 8: Expanding Your Application

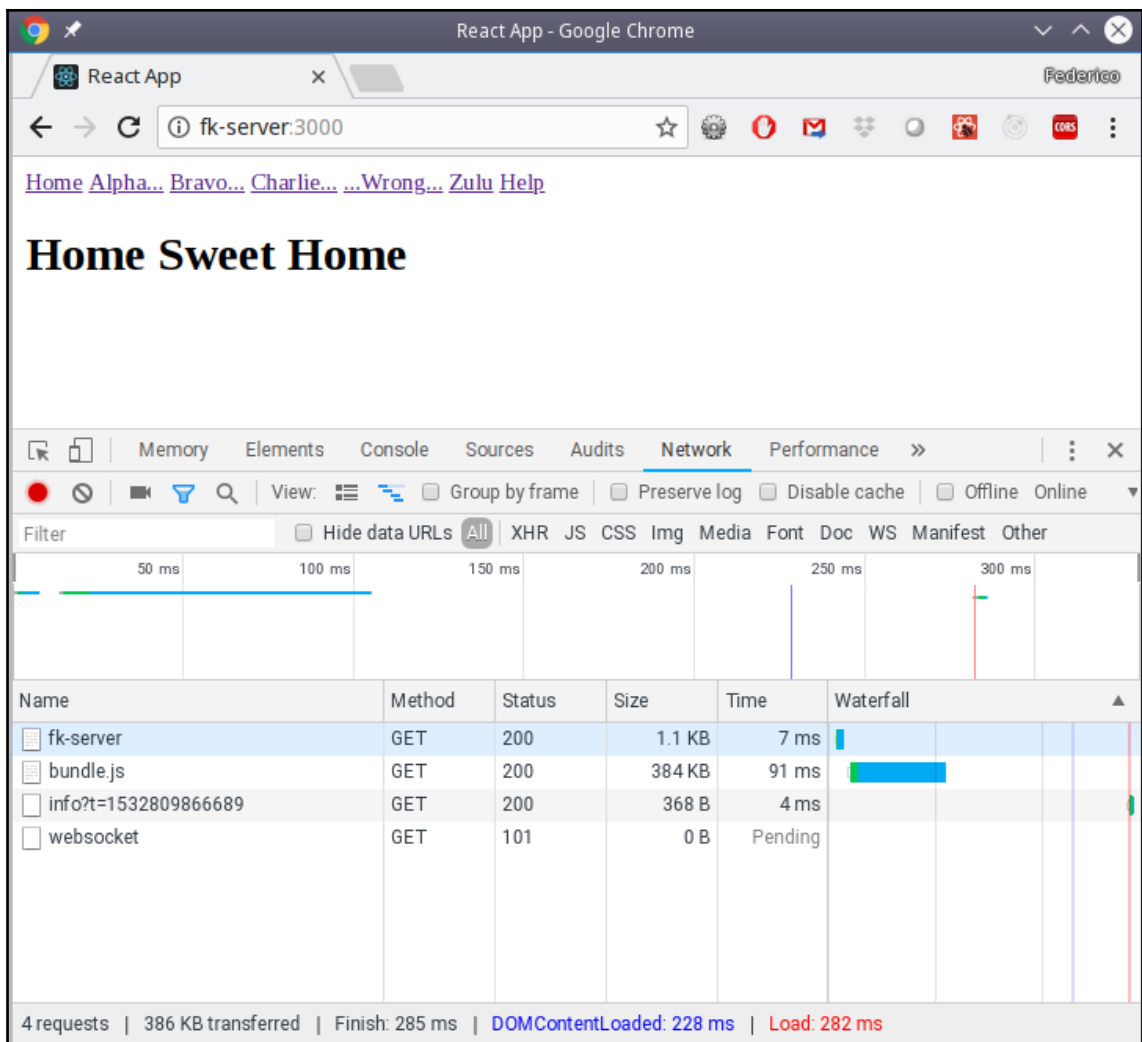












React App

fk-server:3000/help

Home Alpha... Bravo... Charlie... ...Wrong... Zulu Help

Help! SOS!

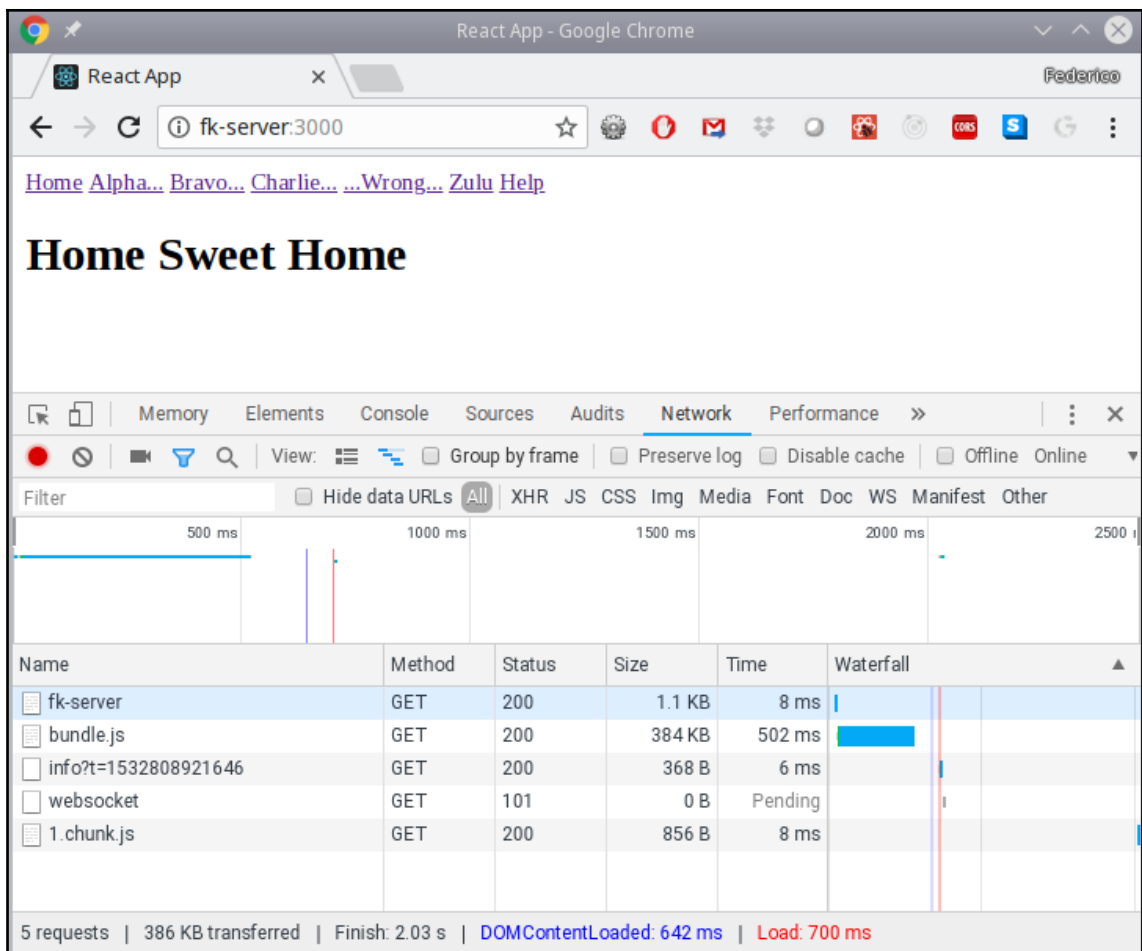
MemoryElementsConsoleSourcesAuditsNetworkPerformance

View:Group by framePreserve logDisable cacheOfflineOnline

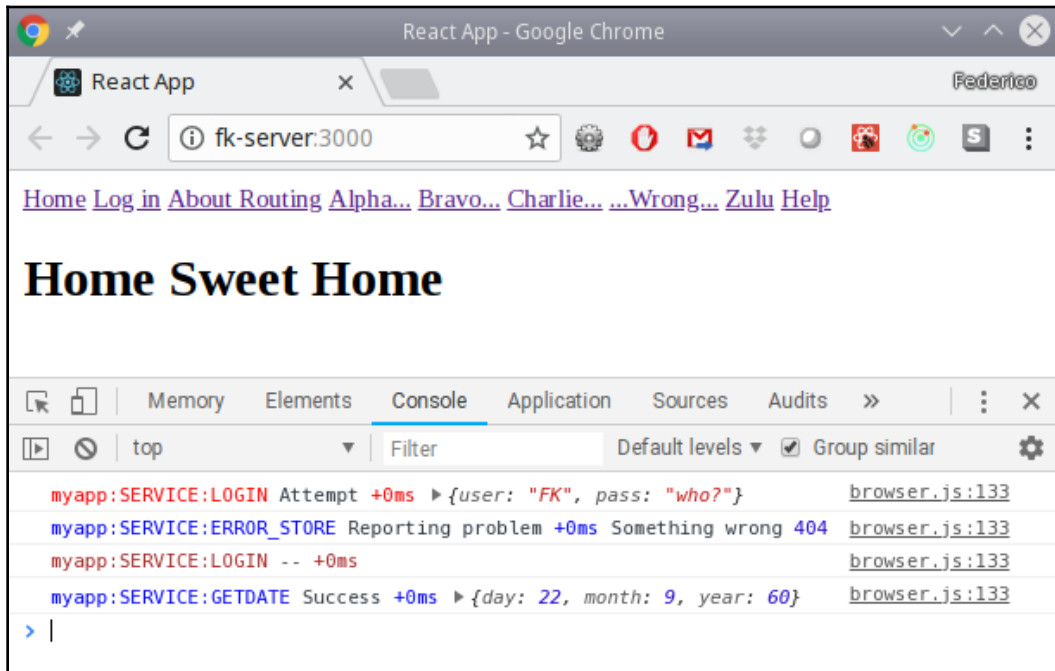
Filter

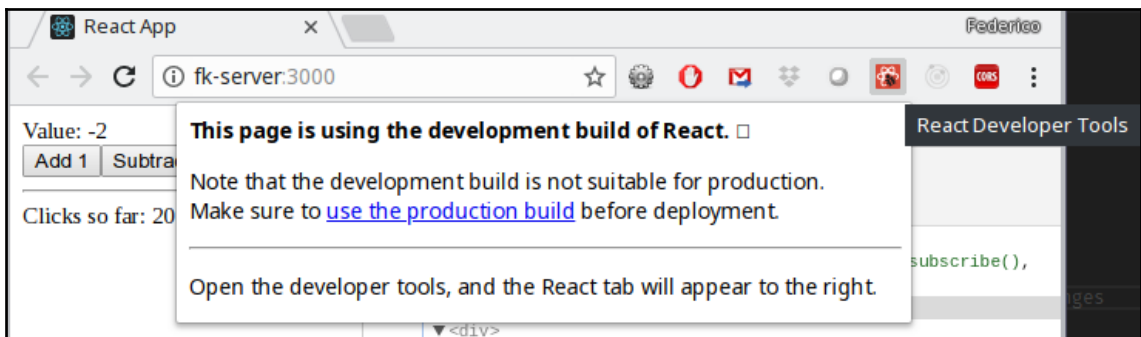
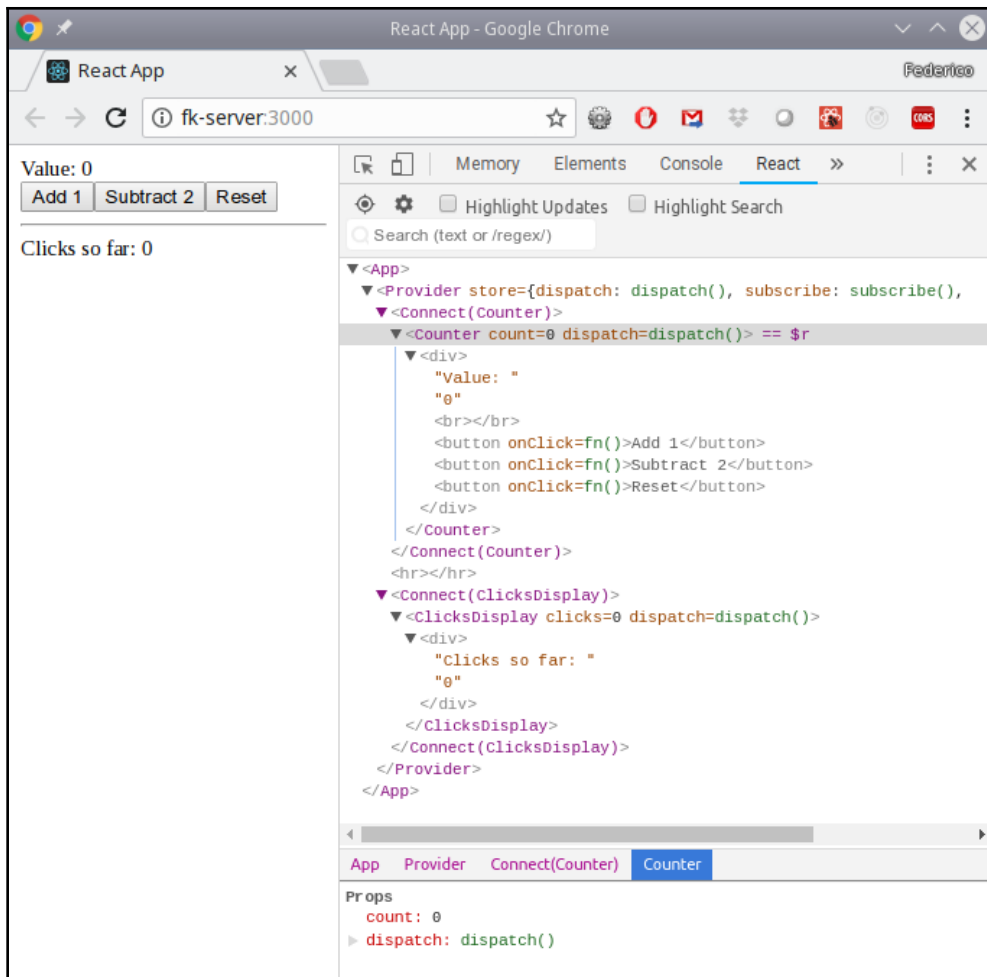
Name	Method	Status	Size	Time	Waterfall
fk-server	GET	304	178 B	16 ms	
bundle.js	GET	304	181 B	62 ms	
info?t=1532810047044	GET	200	367 B	5 ms	
websocket	GET	101	0 B	Pending	
4.chunk.js	GET	304	178 B	8 ms	
2.chunk.js	GET	200	858 B	10 ms	
1.chunk.js	GET	200	860 B	3 ms	

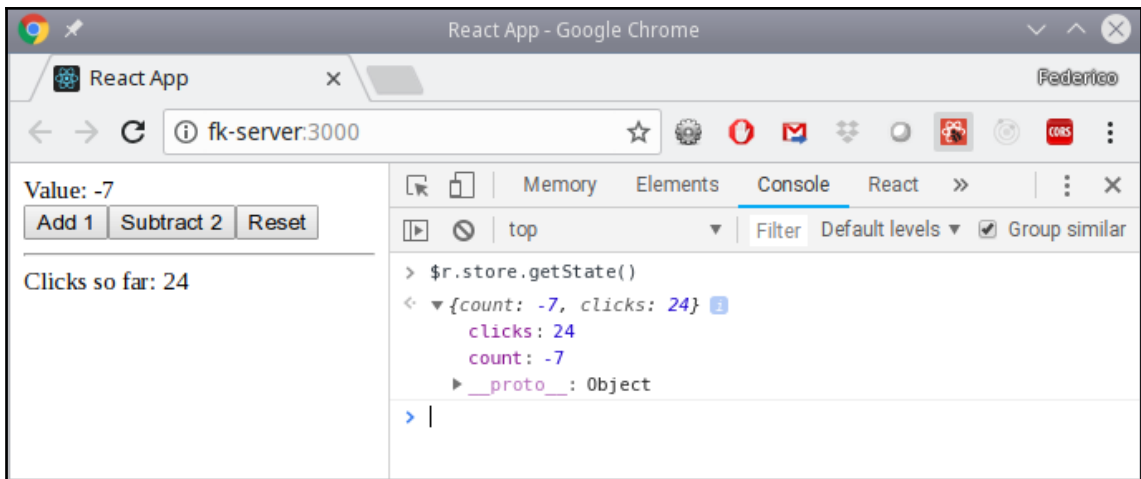
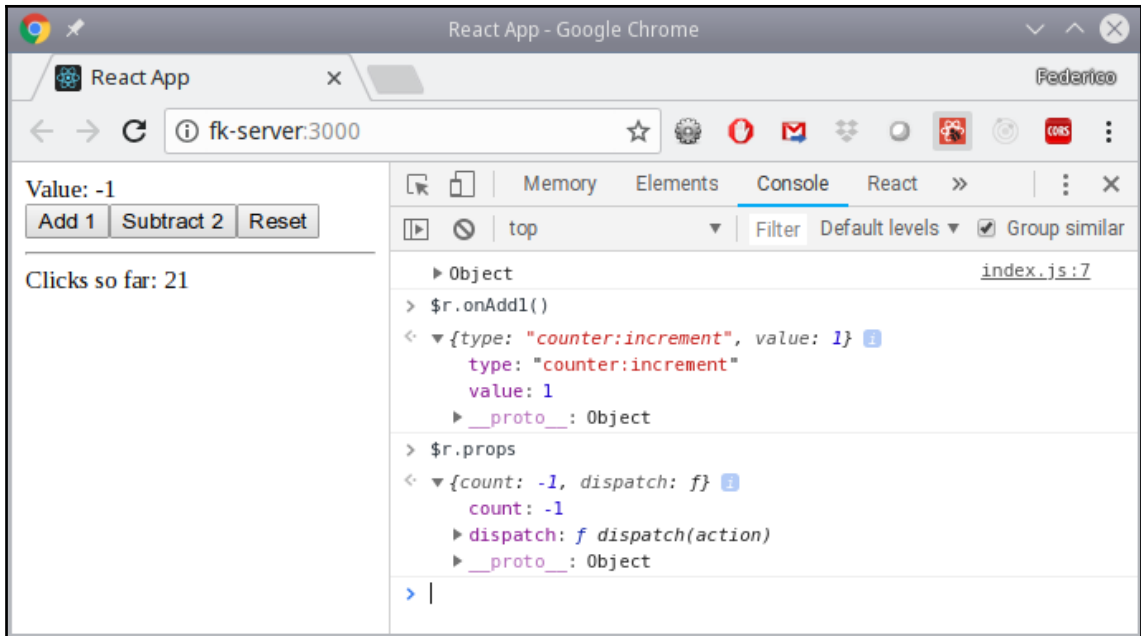
7 requests | 2.6 KB transferred | Finish: 34.54 s | DOMContentLoaded: 199 ms | Load: 278 ms

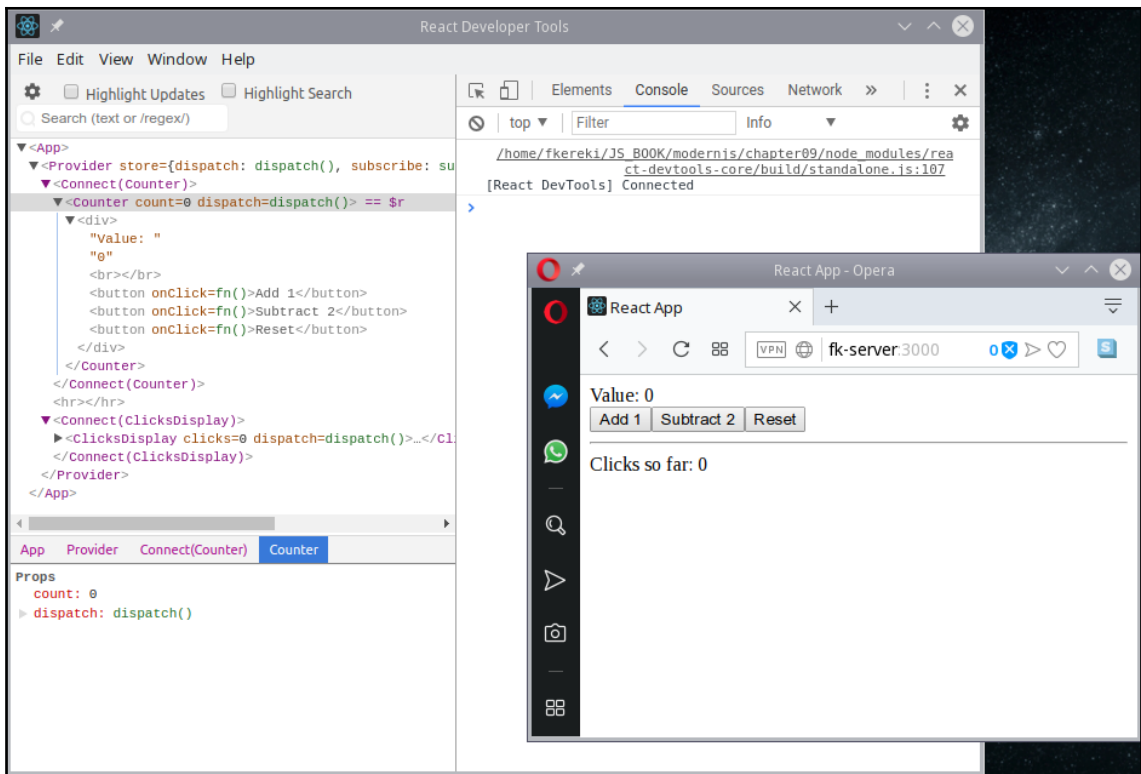


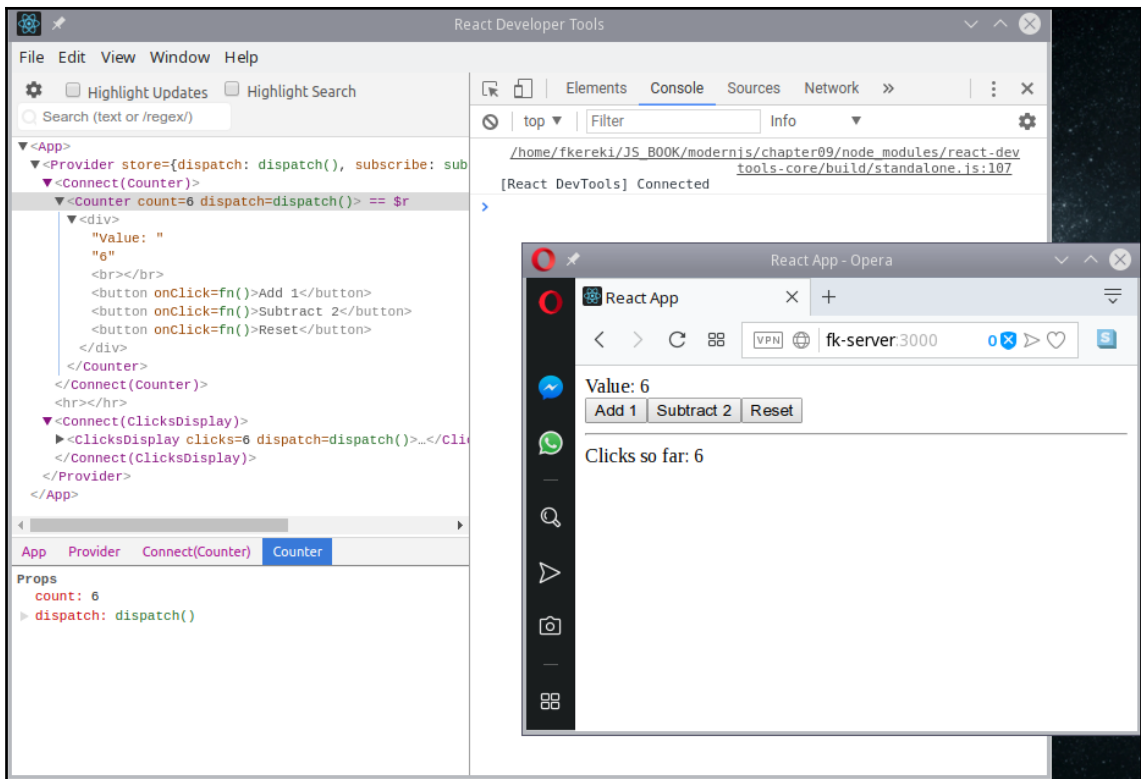
Chapter 9: Debugging Your Application

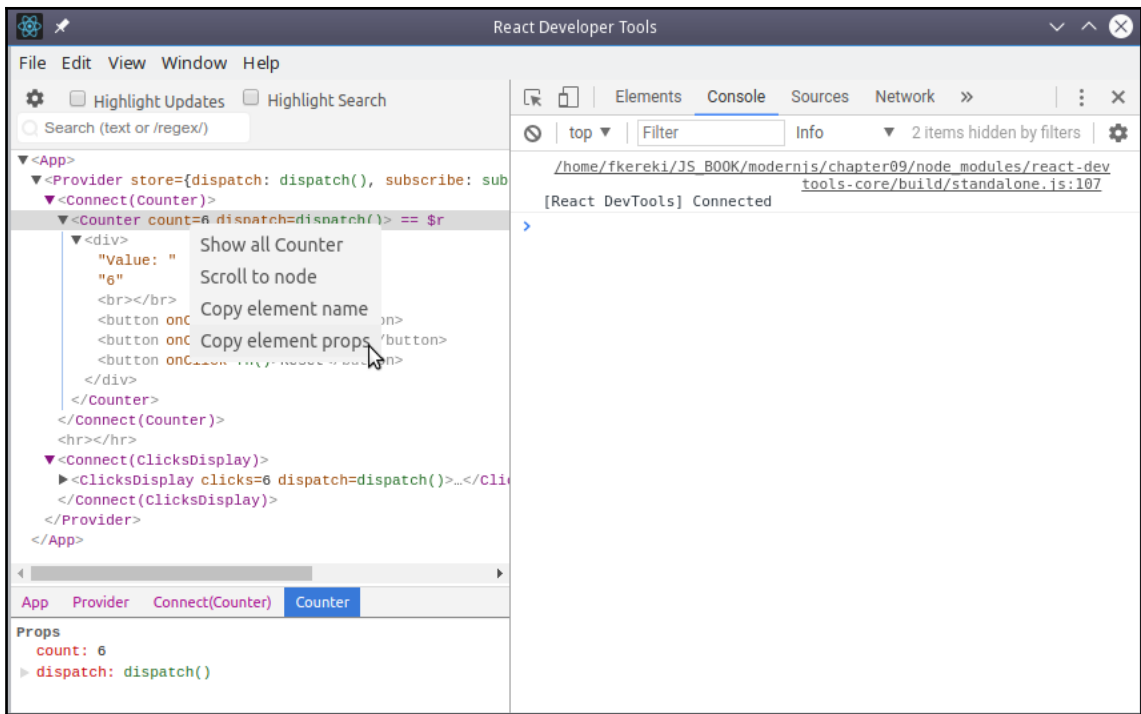












React App - Google Chrome

fk-server:3000

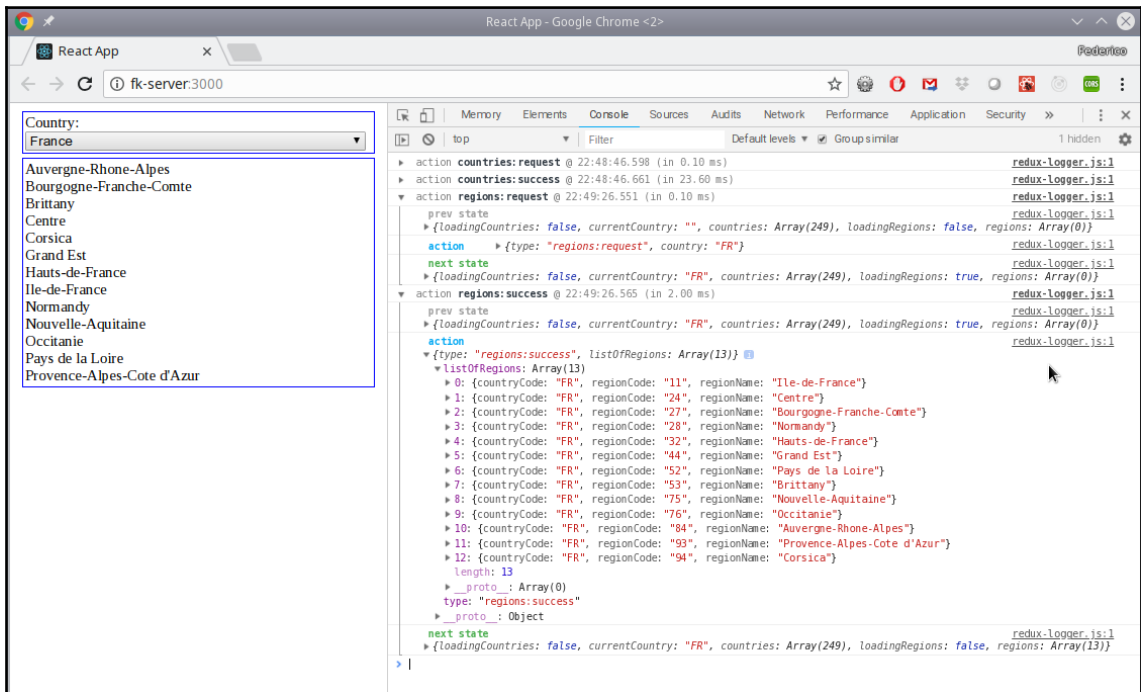
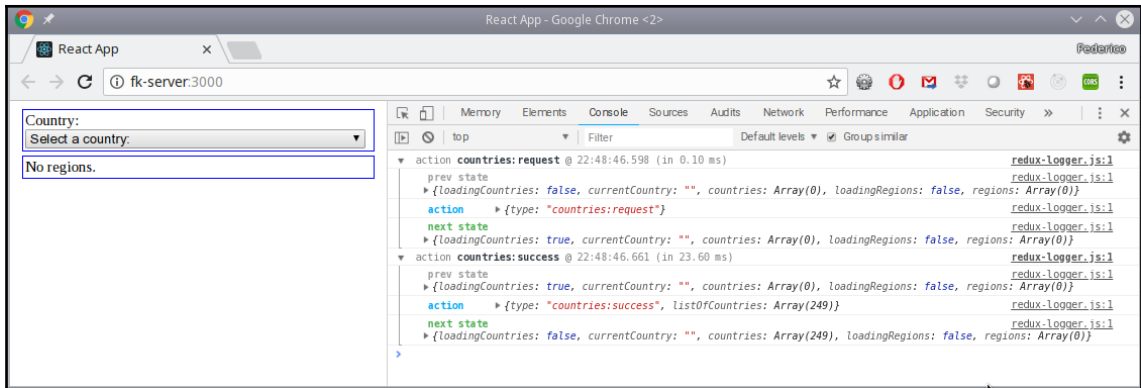
Value: 0

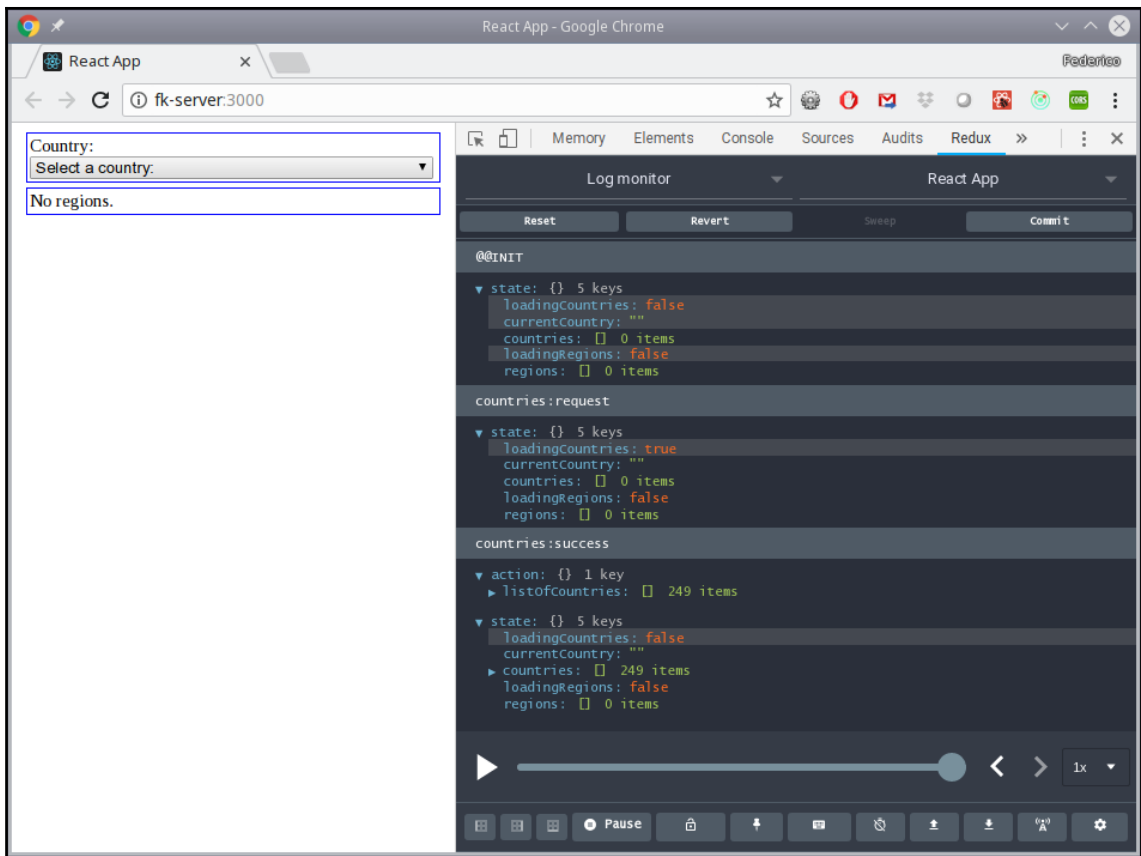
Add 1 Subtract 2 Reset

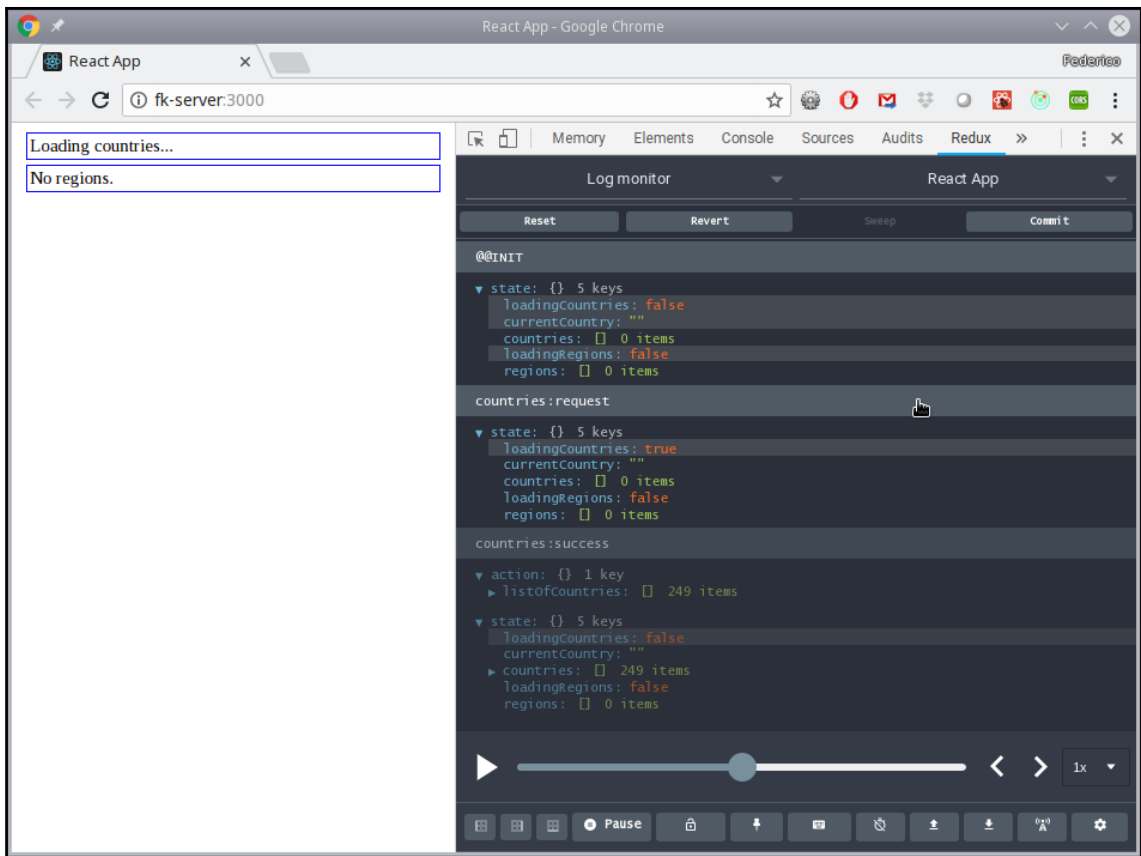
Clicks so far: 5

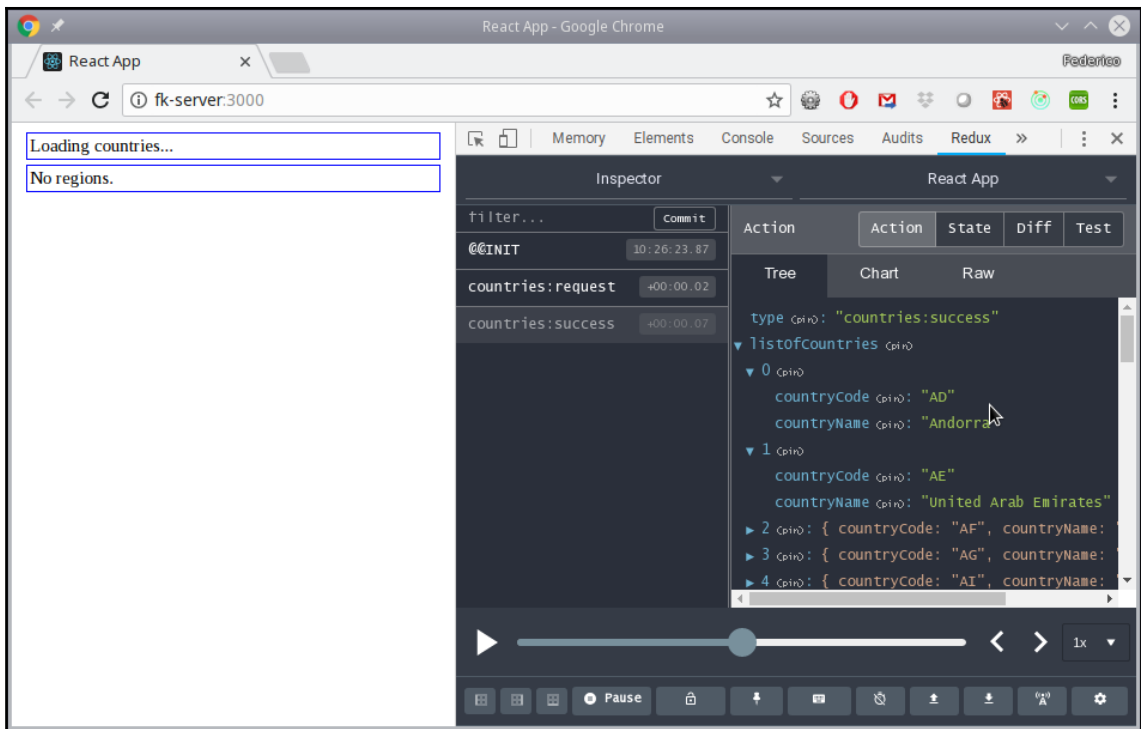
Console

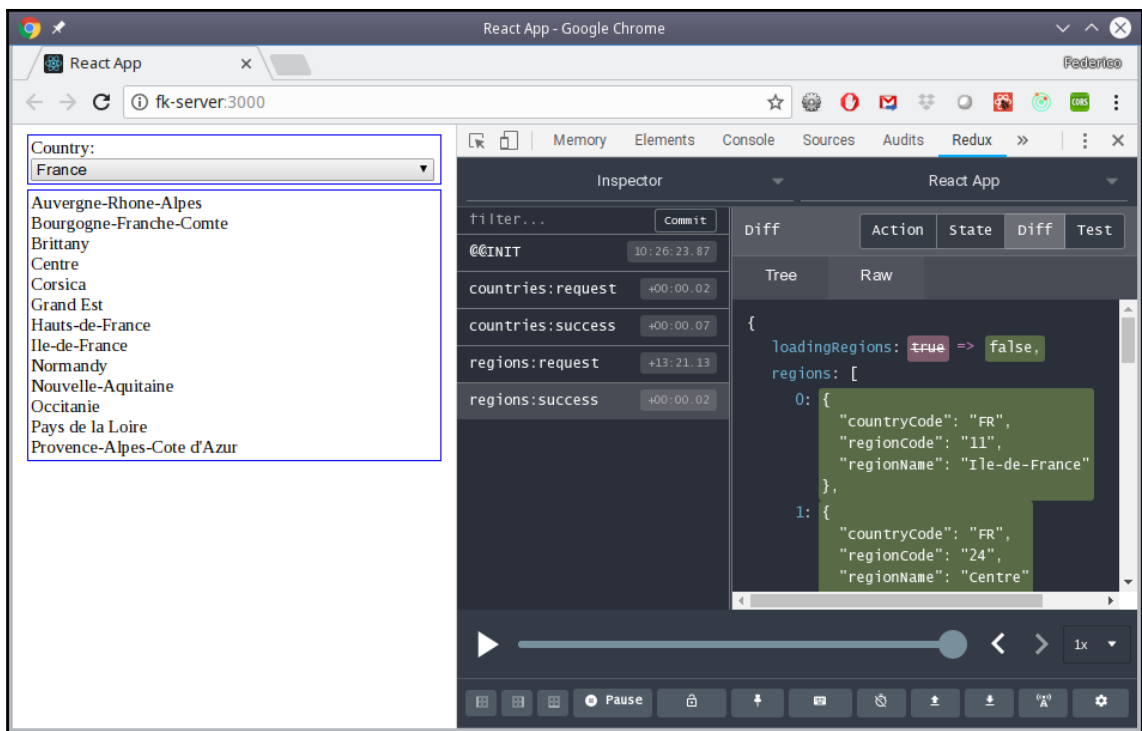
```
▼ action counter:increment @ 22:28:50.131 (in 1.30 ms)    redux-logger.js:1
  prev state ▶ {count: 0, clicks: 0}                  redux-logger.js:1
  action ▶ {type: "counter:increment", value: 1}       redux-logger.js:1
  next state ▶ {count: 1, clicks: 1}                  redux-logger.js:1
  ▼ diff                                                redux-logger.js:1
    CHANGED: count 0 → 1                               redux-logger.js:1
    CHANGED: clicks 0 → 1                             redux-logger.js:1
  ▼ action counter:increment @ 22:28:51.874 (in 0.20 ms)  redux-logger.js:1
    prev state ▶ {count: 1, clicks: 1}                redux-logger.js:1
    action ▶ {type: "counter:increment", value: 1}     redux-logger.js:1
    next state ▶ {count: 2, clicks: 2}                redux-logger.js:1
    ▼ diff                                                redux-logger.js:1
      CHANGED: count 1 → 2                             redux-logger.js:1
      CHANGED: clicks 1 → 2                           redux-logger.js:1
    ▼ action counter:increment @ 22:28:53.101 (in 0.20 ms)  redux-logger.js:1
      prev state ▶ {count: 2, clicks: 2}                redux-logger.js:1
      action ▶ {type: "counter:increment", value: 1}     redux-logger.js:1
      next state ▶ {count: 3, clicks: 3}                redux-logger.js:1
      ▼ diff                                                redux-logger.js:1
        CHANGED: count 2 → 3                             redux-logger.js:1
        CHANGED: clicks 2 → 3                           redux-logger.js:1
    ▼ action counter:increment @ 22:28:53.941 (in 0.10 ms)  redux-logger.js:1
      prev state ▶ {count: 3, clicks: 3}                redux-logger.js:1
      action ▶ {type: "counter:increment", value: -2}    redux-logger.js:1
      next state ▶ {count: 1, clicks: 4}                redux-logger.js:1
      ▼ diff                                                redux-logger.js:1
        CHANGED: count 3 → 1                             redux-logger.js:1
        CHANGED: clicks 3 → 4                           redux-logger.js:1
    ▼ action counter:reset @ 22:28:56.025 (in 0.20 ms)     redux-logger.js:1
      prev state ▶ {count: 1, clicks: 4}                redux-logger.js:1
      action ▶ {type: "counter:reset"}                  redux-logger.js:1
      next state ▶ {count: 0, clicks: 5}                redux-logger.js:1
      ▼ diff                                                redux-logger.js:1
        CHANGED: count 1 → 0                             redux-logger.js:1
        CHANGED: clicks 4 → 5                             redux-logger.js:1
    >
```

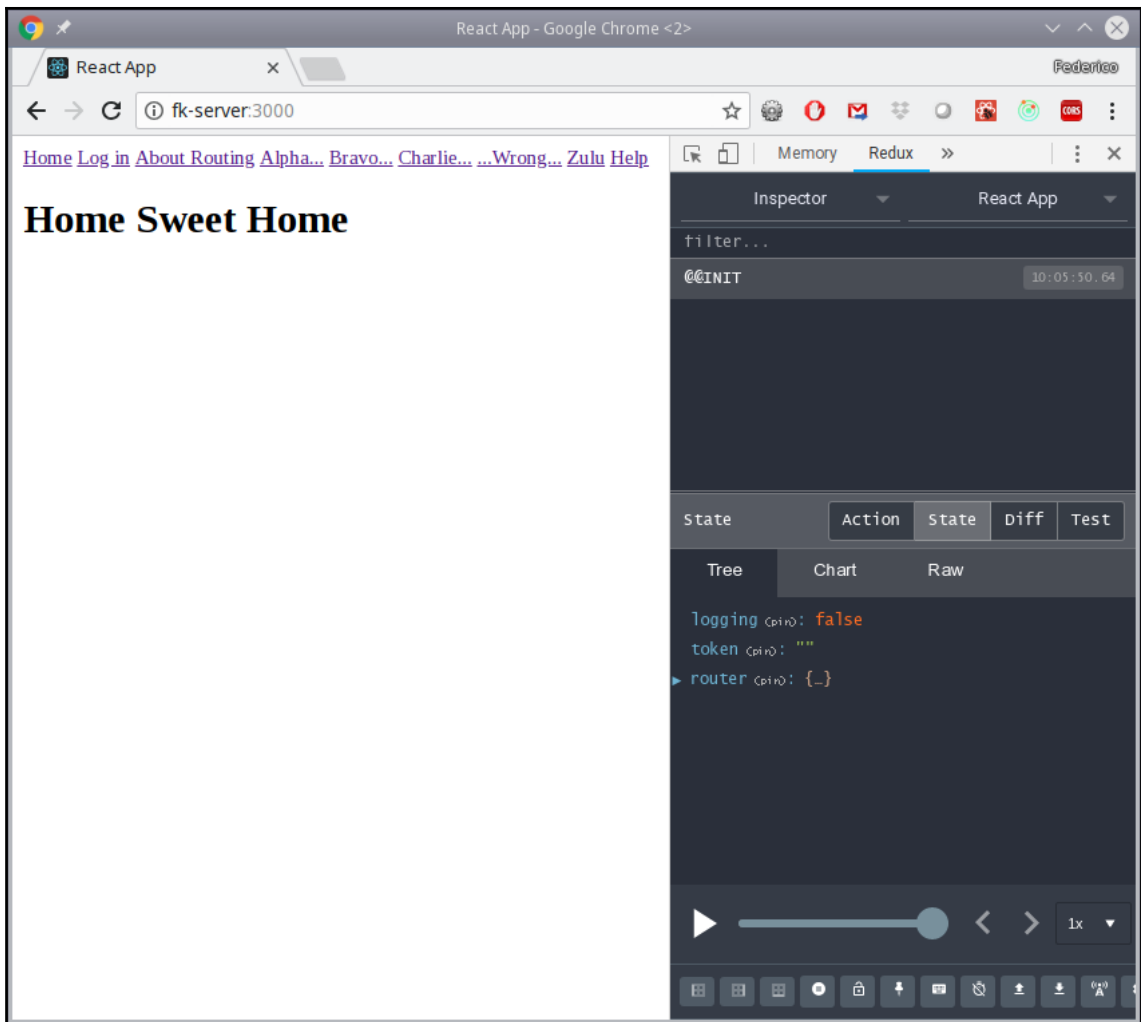


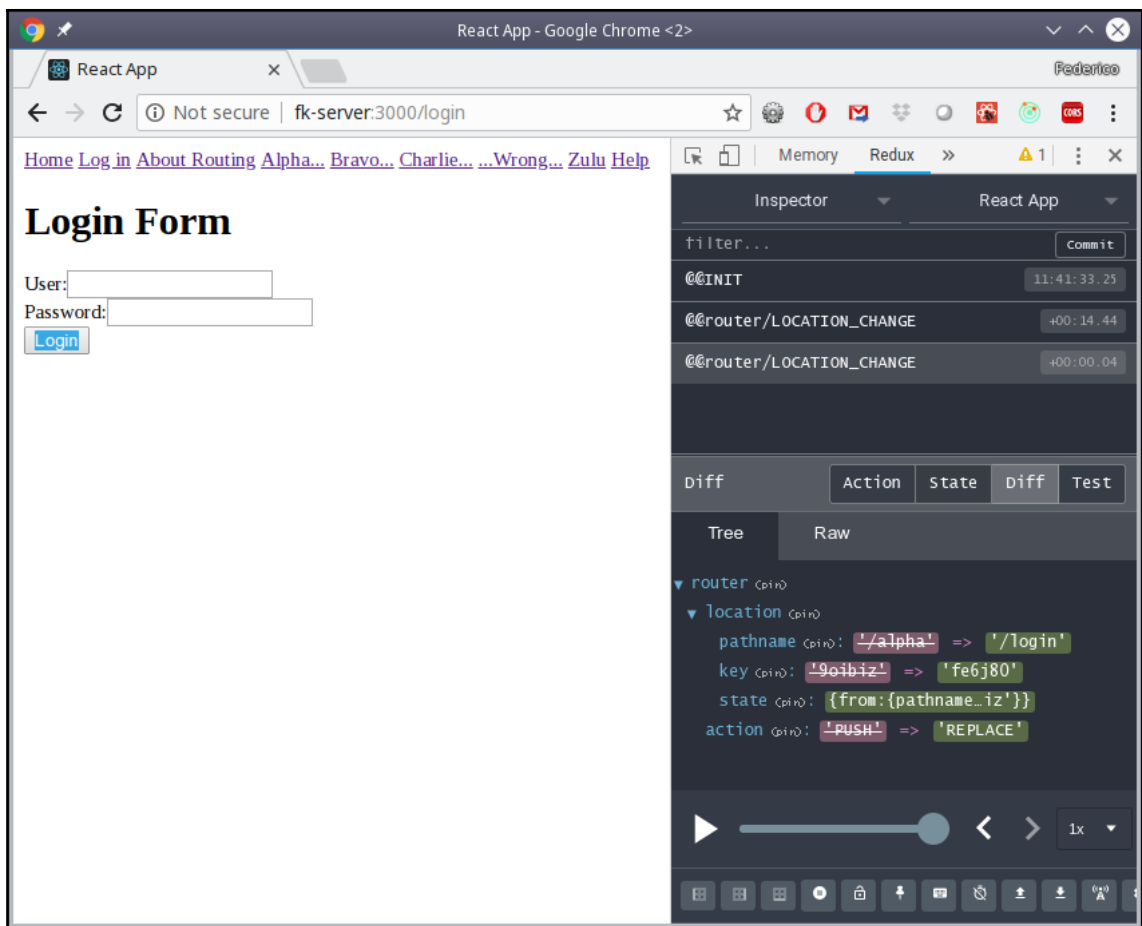


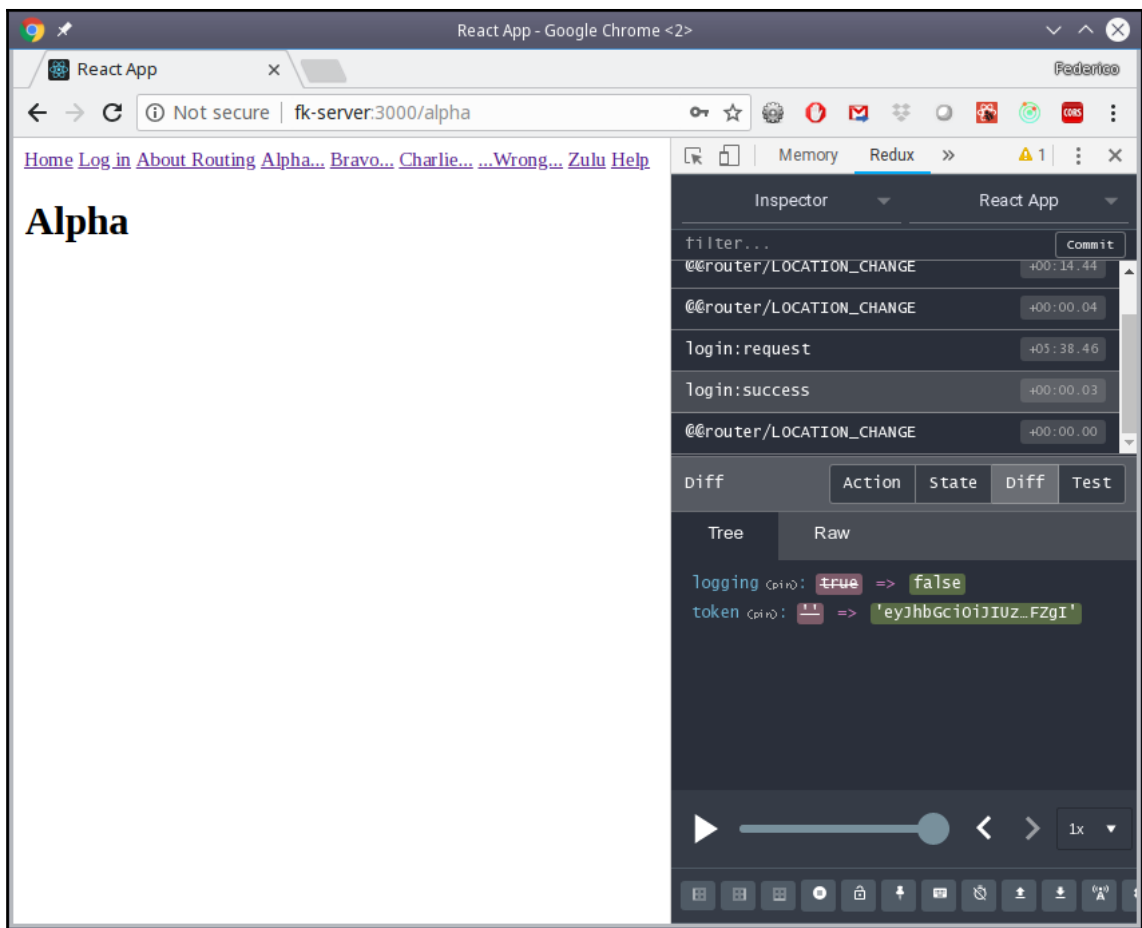


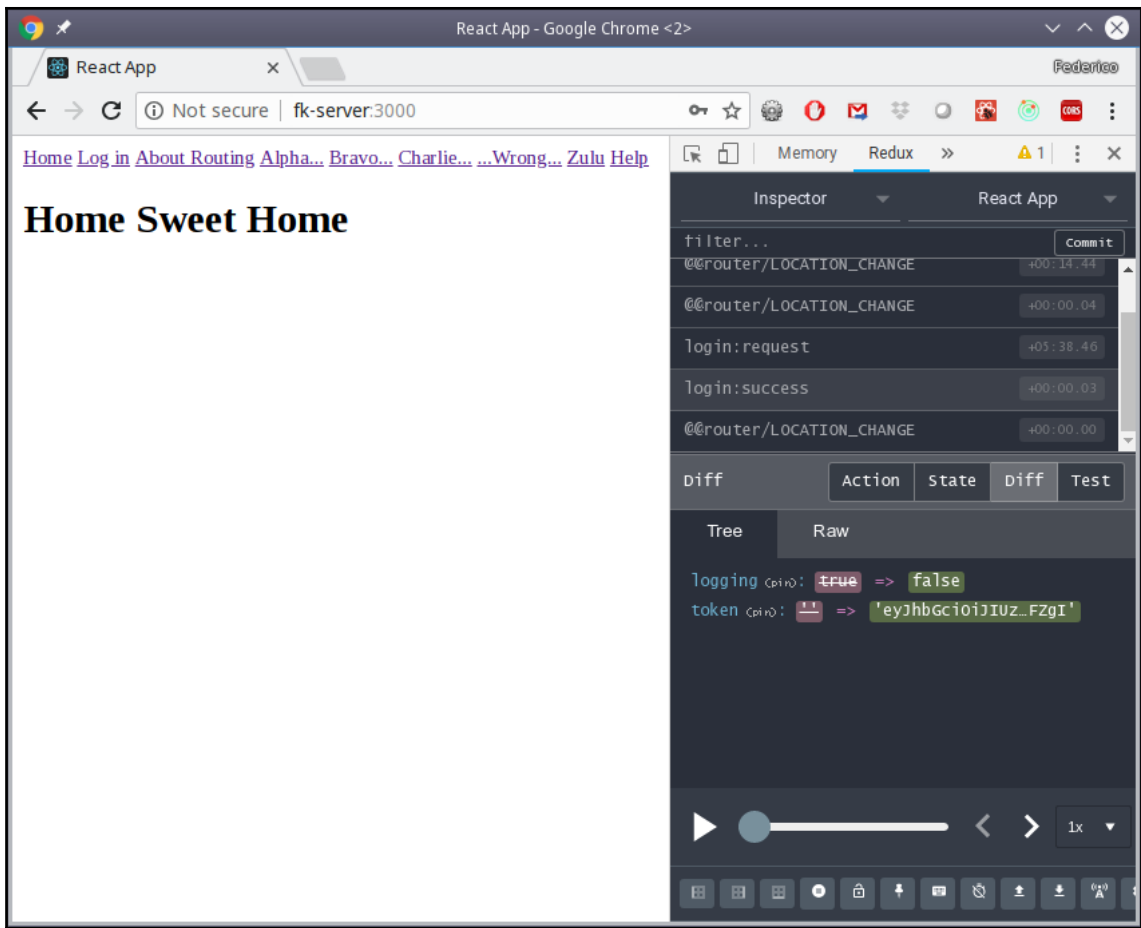












Chapter 10: Testing Your Application

```
PASS src/regionsApp/regionsTable.test.js
PASS src/regionsApp/countrySelect.test.js
```

```
Test Suites: 2 passed, 2 total
Tests:       5 passed, 5 total
Snapshots:   0 total
Time:        1.031s, estimated 2s
Ran all test suites related to changed files.
```

Watch Usage

- > Press **a** to run all tests.
 - > 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.
-

FAIL src/regionsApp/regionsTable.connected.test.js

- getProps for RegionsTable › should extract regions and loading

expect(received).toEqual(expected)

Expected value to equal:

`{"list": [{"something": 1}, {"something": 2}], "loading": false}`

Received:

`{"list": [{"other": 1}, {"other": 2}, {"other": 3}], "loading": false}`

Difference:

- Expected

+ Received

```
Object {
  "list": Array [
    Object {
      -   "something": 1,
      +   "other": 1,
    },
    Object {
      -   "something": 2,
      +   "other": 2,
    },
    +   Object {
    +     "other": 3,
    +   },
  ],
  "loading": false,
}
```

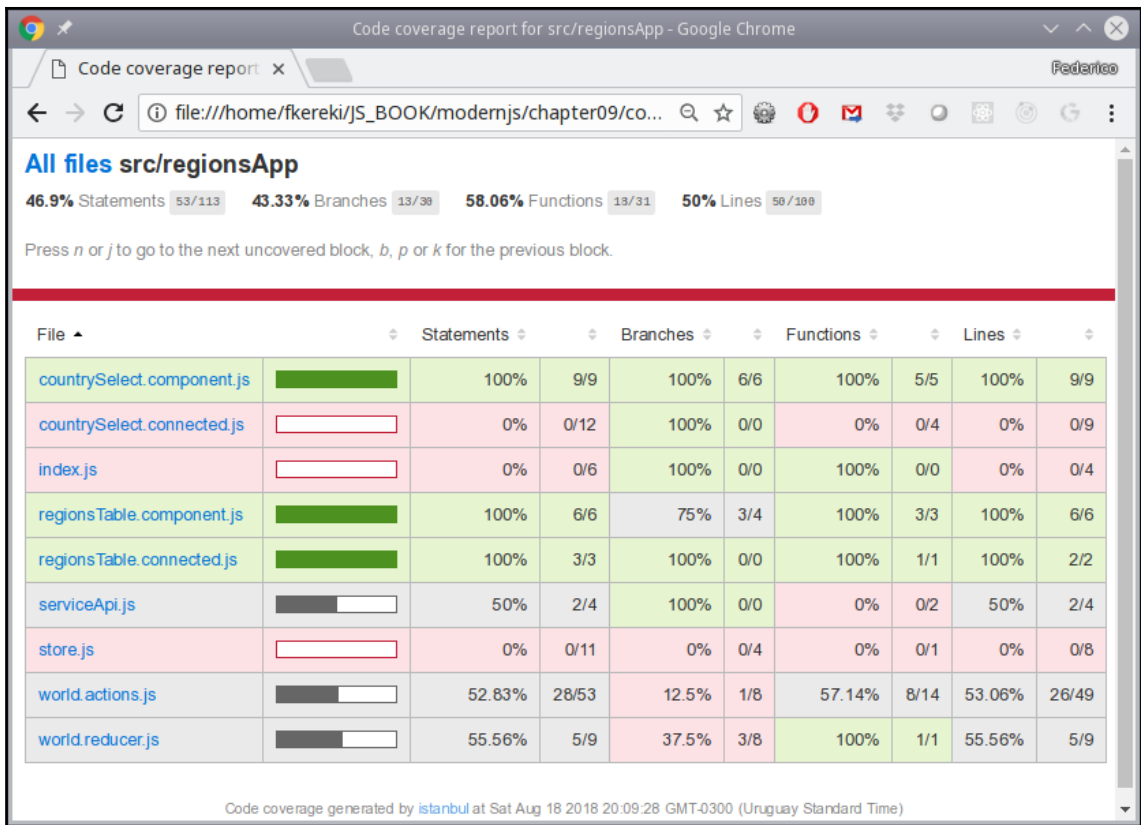
```
PASS src/regionsApp/world.actions.test.js
  getCountries
    ✓ on API success (5ms)
    ✓ on API failure (1ms)
  optimized getCountries
    ✓ doesn't do unneeded calls (1ms)

Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        0.608s, estimated 1s
Ran all test suites related to changed files.
```

Watch Usage

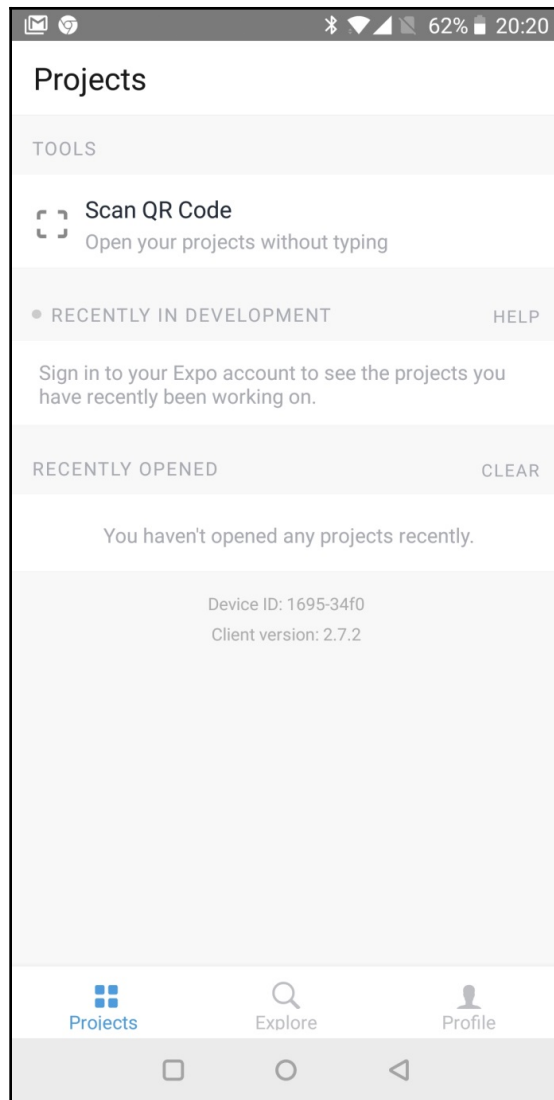
- › Press **a** to run all tests.
 - › Press **p** to filter by a filename regex pattern.
 - › Press **t** to filter by a test name regex pattern.
 - › Press **q** to quit watch mode.
 - › Press **Enter** to trigger a test run.
- 

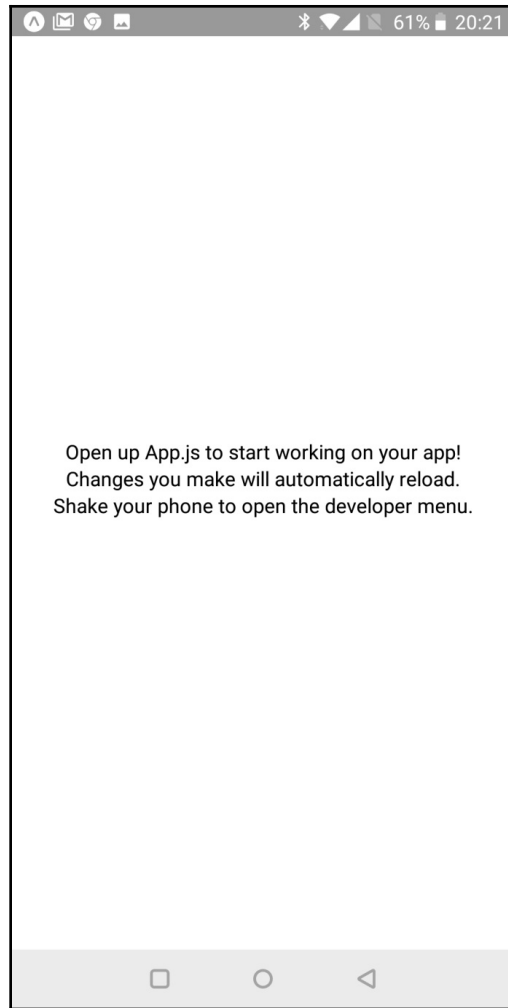
chapter09 : bash — Konsole					
File Edit View Bookmarks Settings Help					
Test Suites: 10 passed, 10 total Tests: 19 passed, 19 total Snapshots: 7 passed, 7 total Time: 2.43s Ran all test suites.					
File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	13.22	10.08	18.87	17.07	
src	0	0	0	0	
App.counter.js	0	0	0	0	1,3,4,6,7,11,20
App.regions.js	0	0	0	0	1,3,4,6,11,15,23
App.routing.auth.js	0	0	0	0	... 22,23,27,58,88
index.js	0	0	0	0	... 17,18,23,25,26
index.without.logging.js	0	0	0	0	1,2,4,5,7,8
registerServiceWorker.js	0	0	0	0	... 36,137,138,139
src/counterApp	13.21	0	18.18	15.56	
clicksDisplay.component.js	100	100	100	100	
clicksDisplay.connected.js	0	100	0	0	1,3,5,7,11
counter.actions.js	62.5	100	0	62.5	13,18,24
counter.component.js	25	100	25	25	22,23,24
counter.connected.js	0	100	0	0	1,3,5,7,9
counter.reducer.js	0	0	0	0	1,3,7,15,17,23,26
index.js	0	100	100	0	1,3,4,6,7,10,11,12
store.js	0	100	100	0	1,3,4,5,7,9,24
src/logging	0	0	0	0	
index.js	0	0	0	0	... 45,46,50,51,53
index.without.level.js	0	0	0	0	... 14,15,16,20,62
src/regionsApp	46.9	43.33	58.06	50	
countrySelect.component.js	100	100	100	100	
countrySelect.connected.js	0	100	0	0	... ,8,13,14,15,18
index.js	0	100	100	0	1,3,4,6
regionsTable.component.js	100	75	100	100	27
regionsTable.connected.js	100	100	100	100	
serviceApi.js	50	100	0	50	6,9
store.js	0	0	0	0	1,3,4,5,6,8,10,19
world.actions.js	52.83	12.5	57.14	53.06	... 14,115,117,120
world.reducer.js	55.56	37.5	100	55.56	36,43,50,65
src/routingApp	0	0	0	0	
authRoute.component.js	0	0	0	0	... 21,22,23,31,32
authRoute.connected.js	0	100	0	0	1,3,5,6
index.js	0	100	100	0	1,3,4,5,7
login.actions.js	0	100	0	0	... 28,29,32,33,35
login.component.js	0	0	0	0	... 30,33,38,42,67
login.connected.js	0	100	0	0	1,3,5,6,8,9,13,15
login.reducer.js	0	0	0	0	... 17,19,26,33,39
protectedRoutes.component.js	0	0	0	0	1,3,4,5,19,29
protectedRoutes.connected.js	0	100	0	0	1,3,5,7
serviceApi.js	0	0	0	0	1,3,5,6
store.js	0	0	0	0	... ,8,10,12,14,16

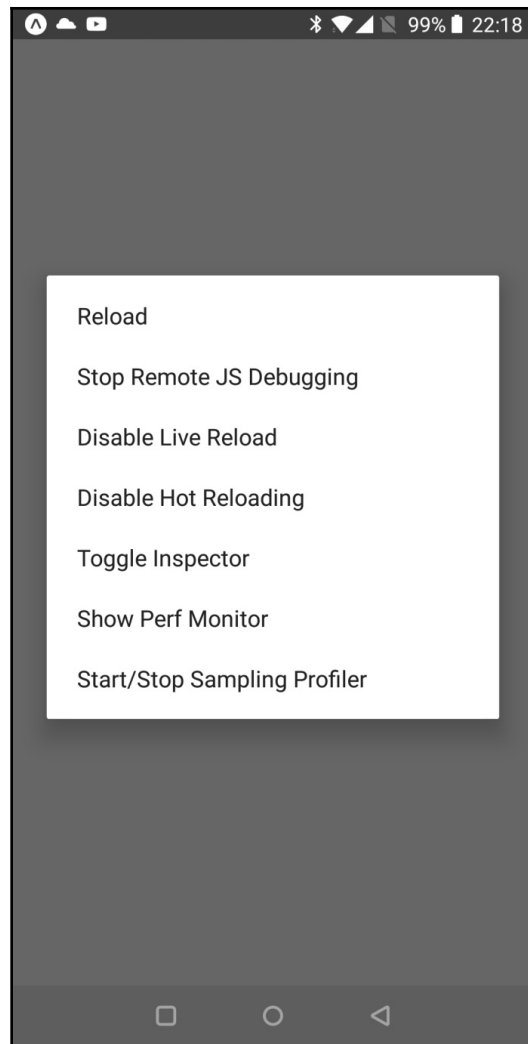


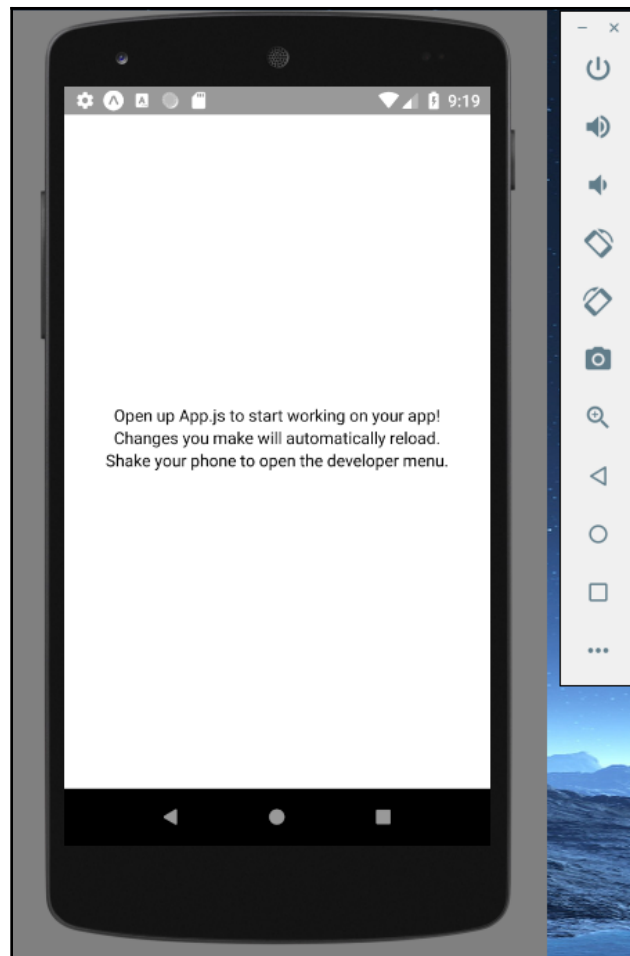
Chapter 11: Creating Mobile Apps with React Native

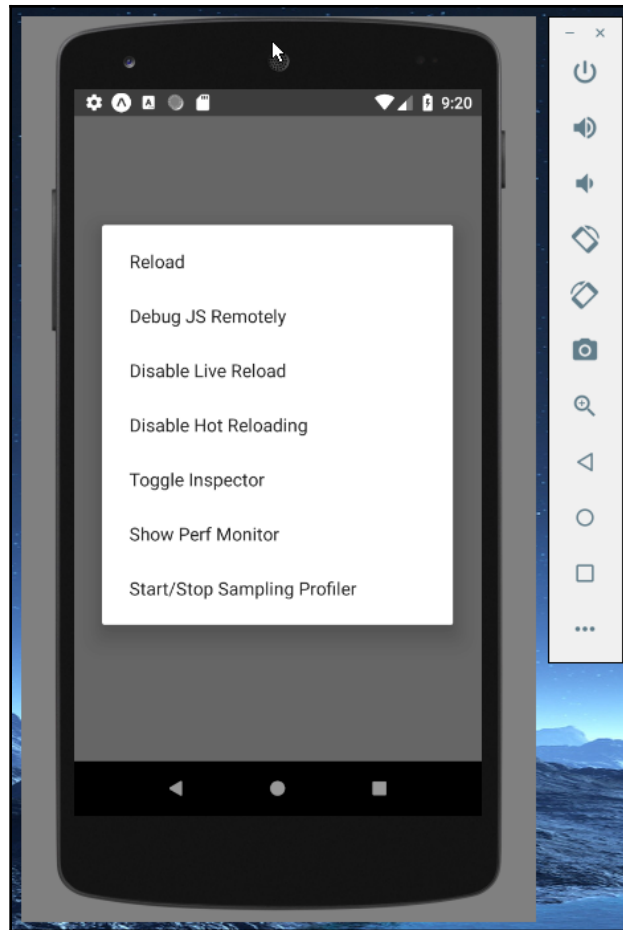






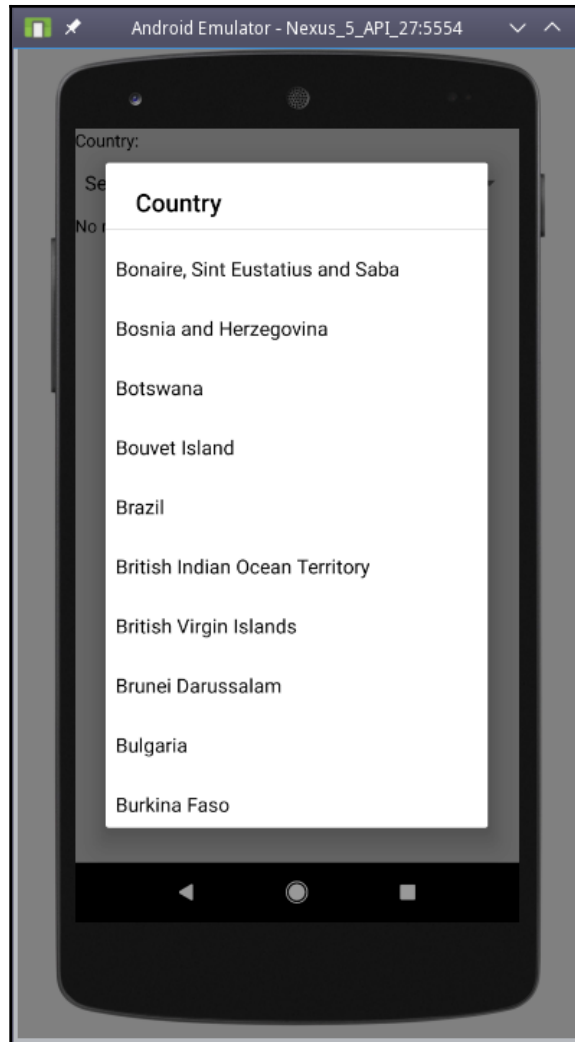


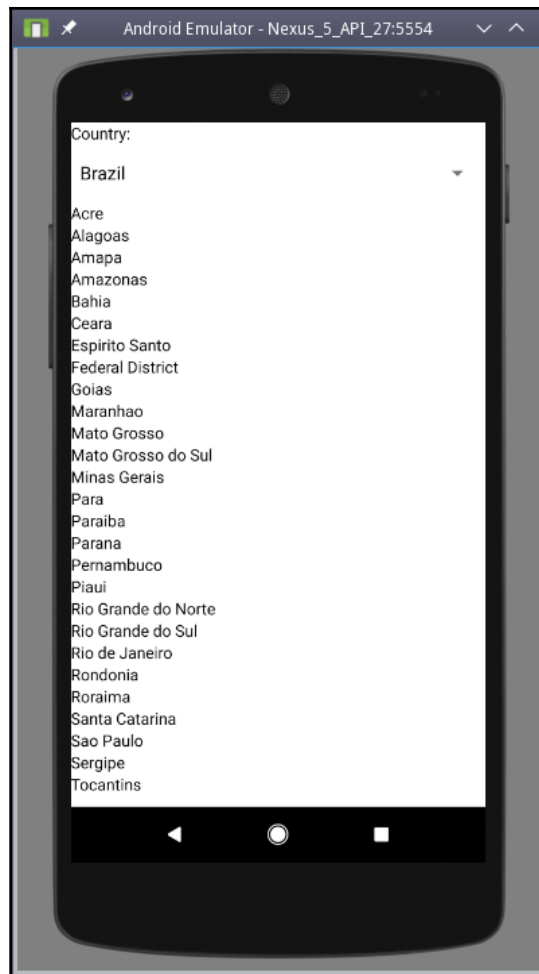


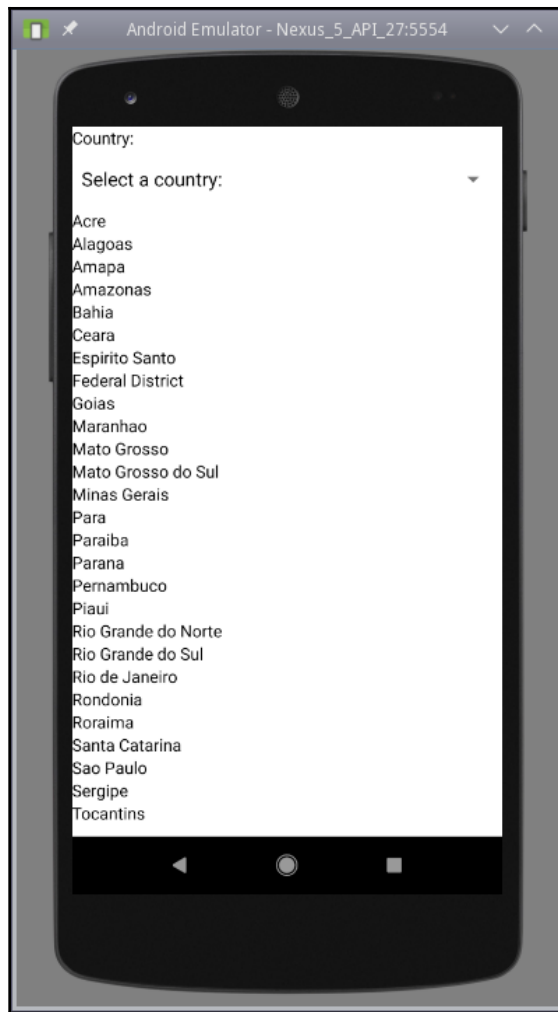


```
15
16  const styles = StyleSheet.create({
17    container: {
18      flex: 1,
19      backgroundColor: "#fff",
20      alignItems: "center",
21      justifyContent: "center"
22    }
23  });
24
```

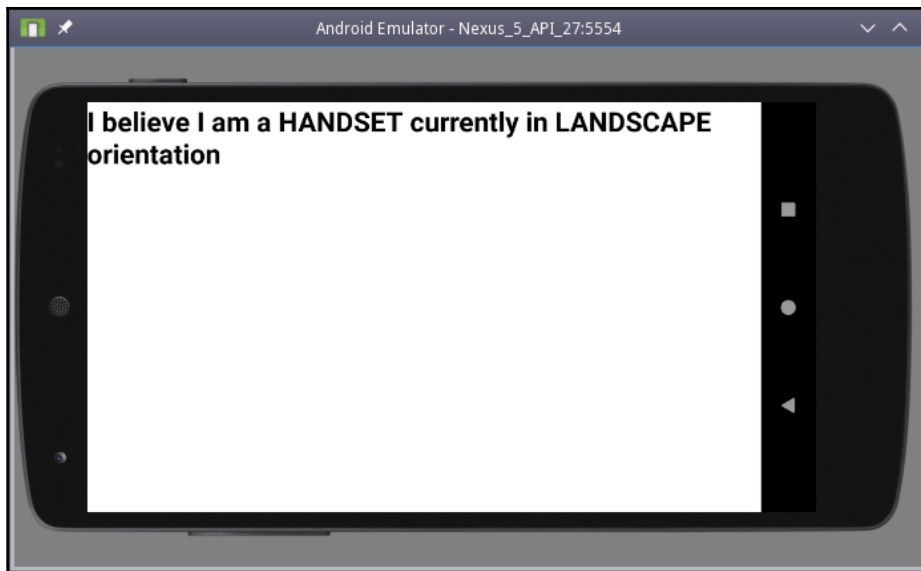


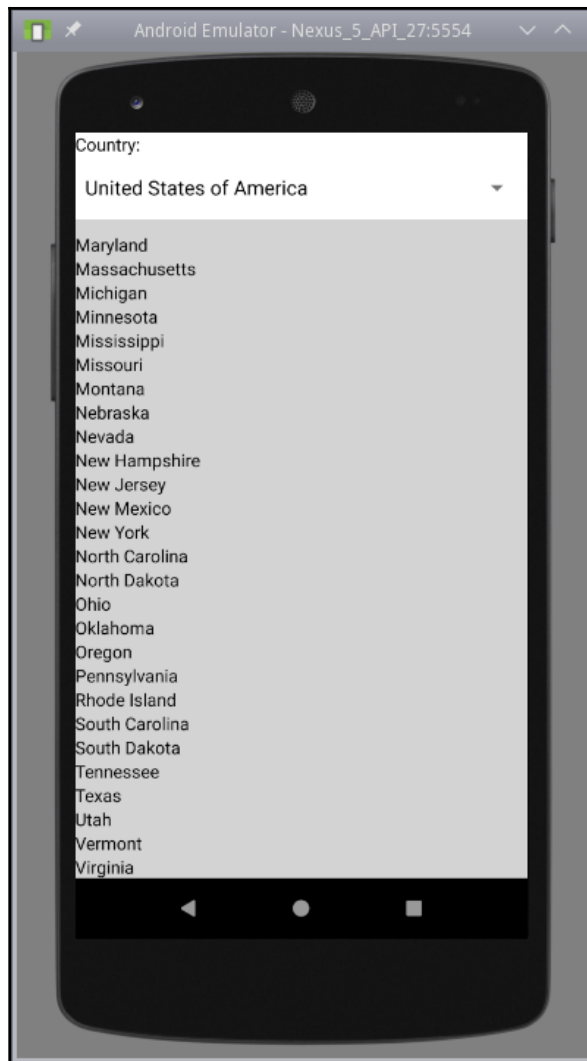


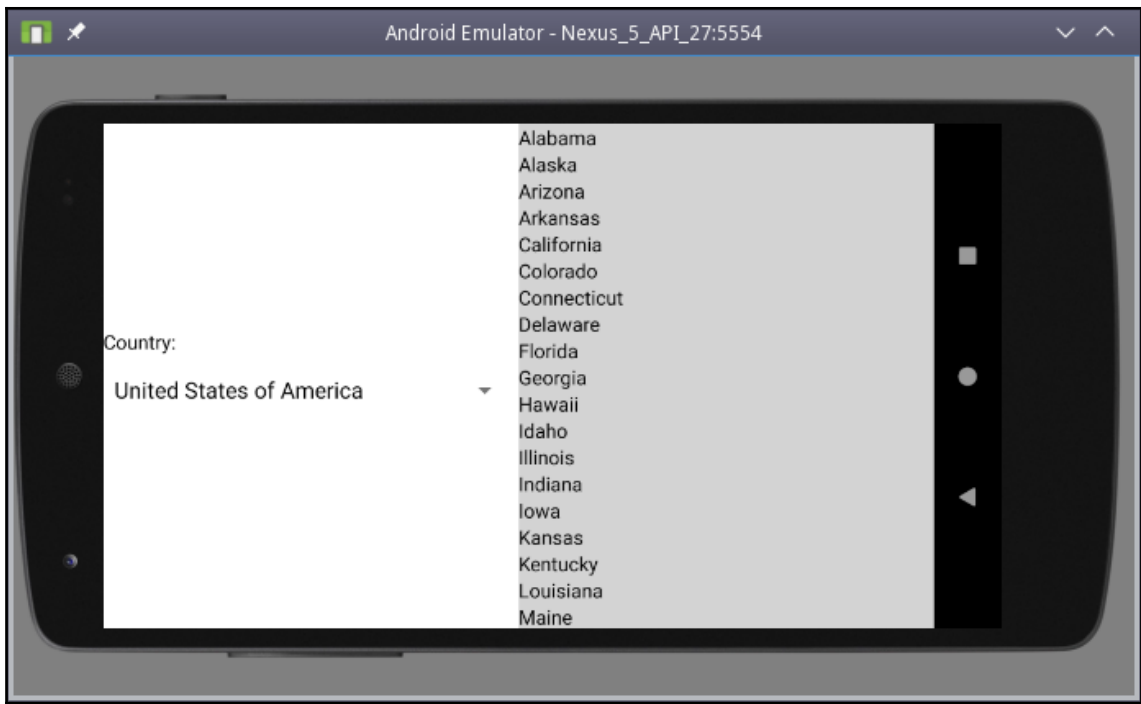




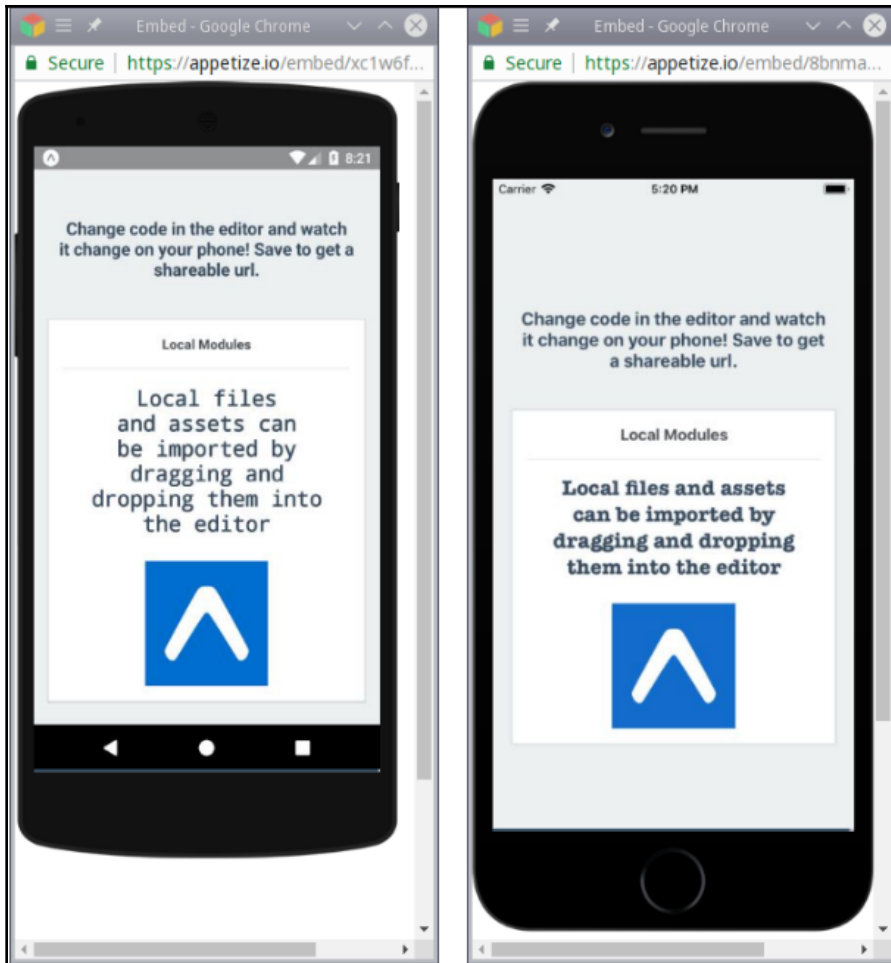




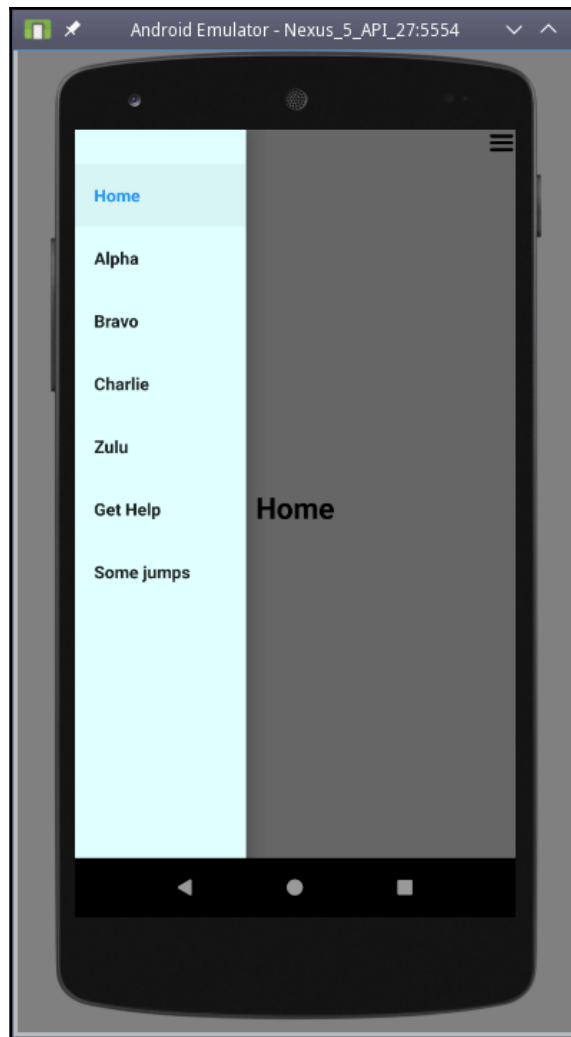




```
const styles = StyleSheet.create({
  container: {
    alignItems: 'center',
    justifyContent: 'center',
  },
  paragraph: {
    fontFamily: Platform.OS === "android" ? "monospace" : "AmericanTypewriter",
    margin: 24,
    marginTop: 0,
    fontSize: 22,
    fontWeight: 'bold',
    textAlign: 'center',
    color: '#34495e',
  },
});
```









Chapter 12: Testing and Debugging Your Mobile App

```
fkereki@fk-server:~/JS_B00K/modernjs/chapter12> npm test

> chapter12b@0.1.0 test /home/fkereki/JS_B00K/modernjs/chapter12
> jest

PASS src/regionsStyledApp/regionsTable.test.js
PASS src/regionsStyledApp/regionsTable.connected.test.js
PASS src/regionsStyledApp/countrySelect.test.js
PASS src/regionsStyledApp/world.reducer.test.js
PASS src/regionsStyledApp/world.actions.test.js

Test Suites: 5 passed, 5 total
Tests:       11 passed, 11 total
Snapshots:   0 total
Time:        1.395s
Ran all test suites.
```

```
fkereki@fk-server:~/JS_B00K/modernjs/chapter12> npm test snapshot

> chapter12b@0.1.0 test /home/fkereki/JS_B00K/modernjs/chapter12
> jest "snapshot"

PASS src/regionsStyledApp/main.snapshot.test.js
  > 2 snapshots written.
PASS src/regionsStyledApp/regionsTable.snapshot.test.js
  > 2 snapshots written.
PASS src/regionsStyledApp/countrySelect.snapshot.test.js
  > 2 snapshots written.

Snapshot Summary
  > 6 snapshots written in 3 test suites.

Test Suites: 3 passed, 3 total
Tests:       6 passed, 6 total
Snapshots:   6 added, 6 total
Time:        0.844s, estimated 1s
Ran all test suites matching /snapshot/i.
```

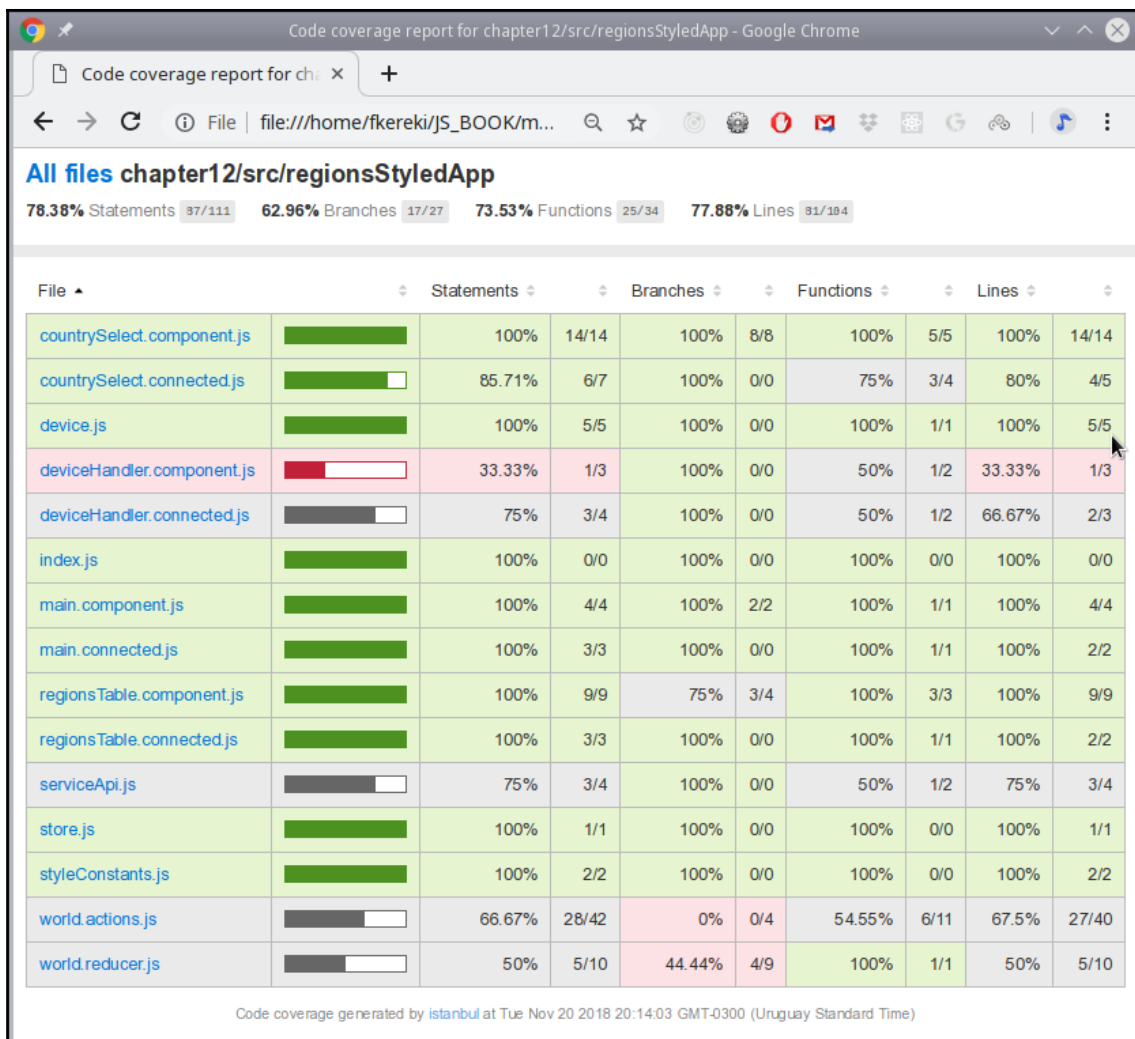
```
fkereki@fk-server:~/JS_B00K/modernjs/chapter12> npm test snapshot
> chapter12b@0.1.0 test /home/fkereki/JS_B00K/modernjs/chapter12
> jest "snapshot"
```

```
PASS src/regionsStyledApp/main.snapshot.test.js
PASS src/regionsStyledApp/regionsTable.snapshot.test.js
PASS src/regionsStyledApp/countrySelect.snapshot.test.js
```

```
Test Suites: 3 passed, 3 total
Tests:       6 passed, 6 total
Snapshots:   6 passed, 6 total
Time:        0.893s, estimated 1s
Ran all test suites matching /snapshot/i.
```

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	78.57	62.96	74.29	78.1	
chapter12	100	100	100	100	
App.js	100	100	100	100	
chapter12/src/regionsStyledApp	78.38	62.96	73.53	77.88	
countrySelect.component.js	100	100	100	100	
countrySelect.connected.js	85.71	100	75	80	17
device.js	100	100	100	100	
deviceHandler.component.js	33.33	100	50	33.33	15,16
deviceHandler.connected.js	75	100	50	66.67	9
index.js	100	100	100	100	
main.component.js	100	100	100	100	
main.connected.js	100	100	100	100	
regionsTable.component.js	100	75	100	100	47
regionsTable.connected.js	100	100	100	100	
serviceApi.js	75	100	50	75	9
store.js	100	100	100	100	
styleConstants.js	100	100	100	100	
world.actions.js	66.67	0	54.55	67.5	... 99,100,103,104
world.reducer.js	50	44.44	100	50	30,43,50,57,72

```
Test Suites: 9 passed, 9 total
Tests:       18 passed, 18 total
Snapshots:   6 passed, 6 total
Time:        8.733s
Ran all test suites.
```



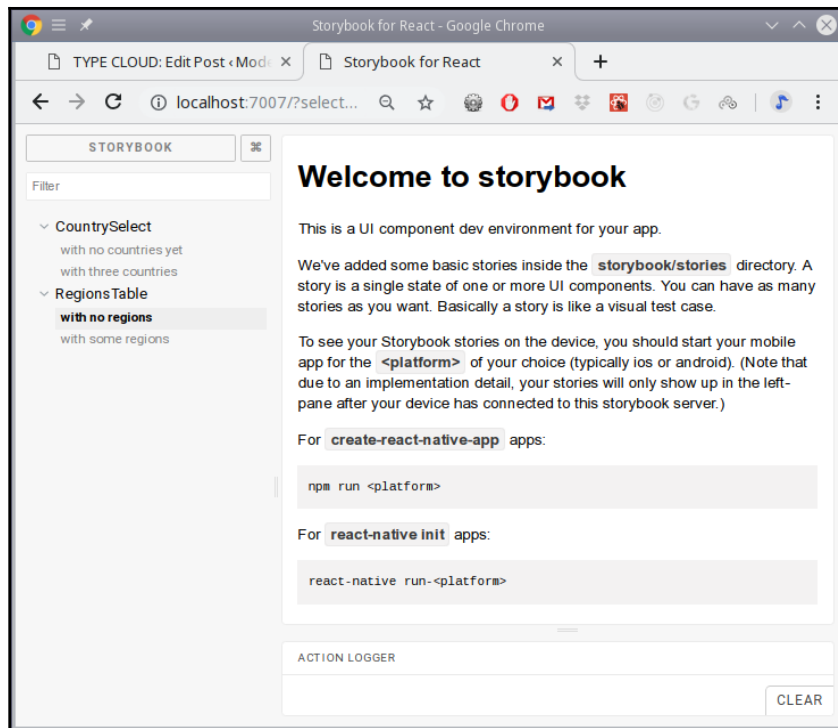
Code coverage report for chapter12/src/regionsStyledApp/deviceHandler.component.js - Google Chrome

Code coverage report for chapter12/src/regionsStyledApp/deviceHandler.component.js

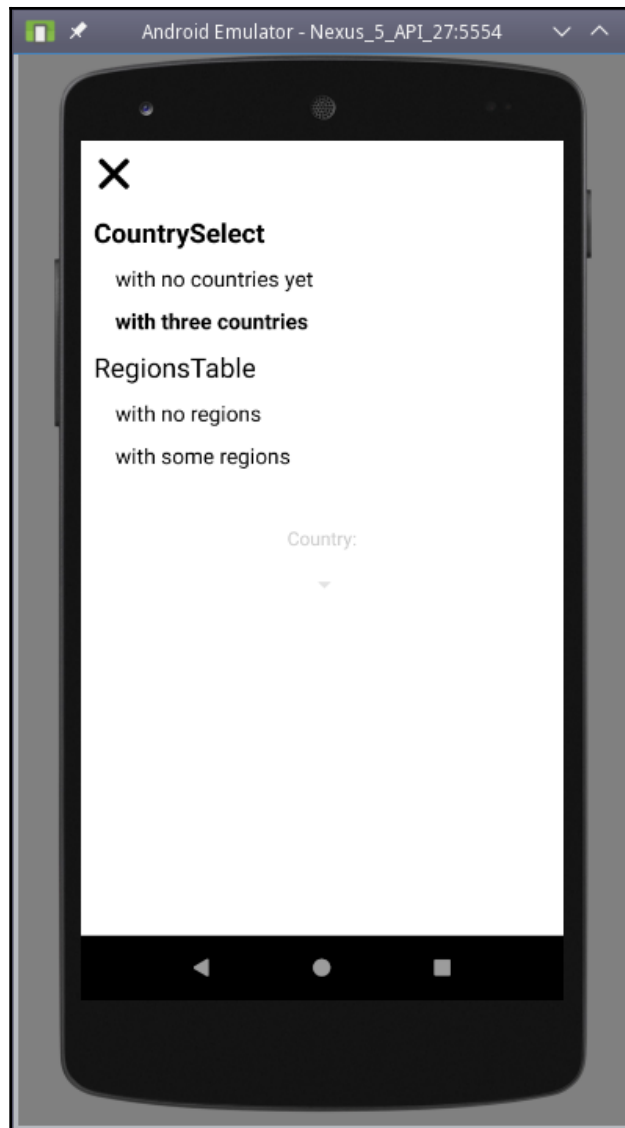
33.33% Statements 1/3 100% Branches 0/0 50% Functions 1/2 33.33% Lines 1/3

```
1  /* @flow */
2
3  import React from "react";
4  import PropTypes from "prop-types";
5  import { View } from "react-native";
6
7  class DeviceHandler extends React.PureComponent<{
8    setDevice: () => any
9  }> {
10    static propTypes = {
11      setDevice: PropTypes.func.isRequired
12    };
13
14    onLayoutHandler = () => {
15      console.log("deviceHandler: onLayoutHandler called");
16      this.props.setDevice();
17    };
18
19    render() {
20      3x    return <View hidden onLayout={this.onLayoutHandler} />;
21    }
22  }
23
24  export { DeviceHandler };
25
```

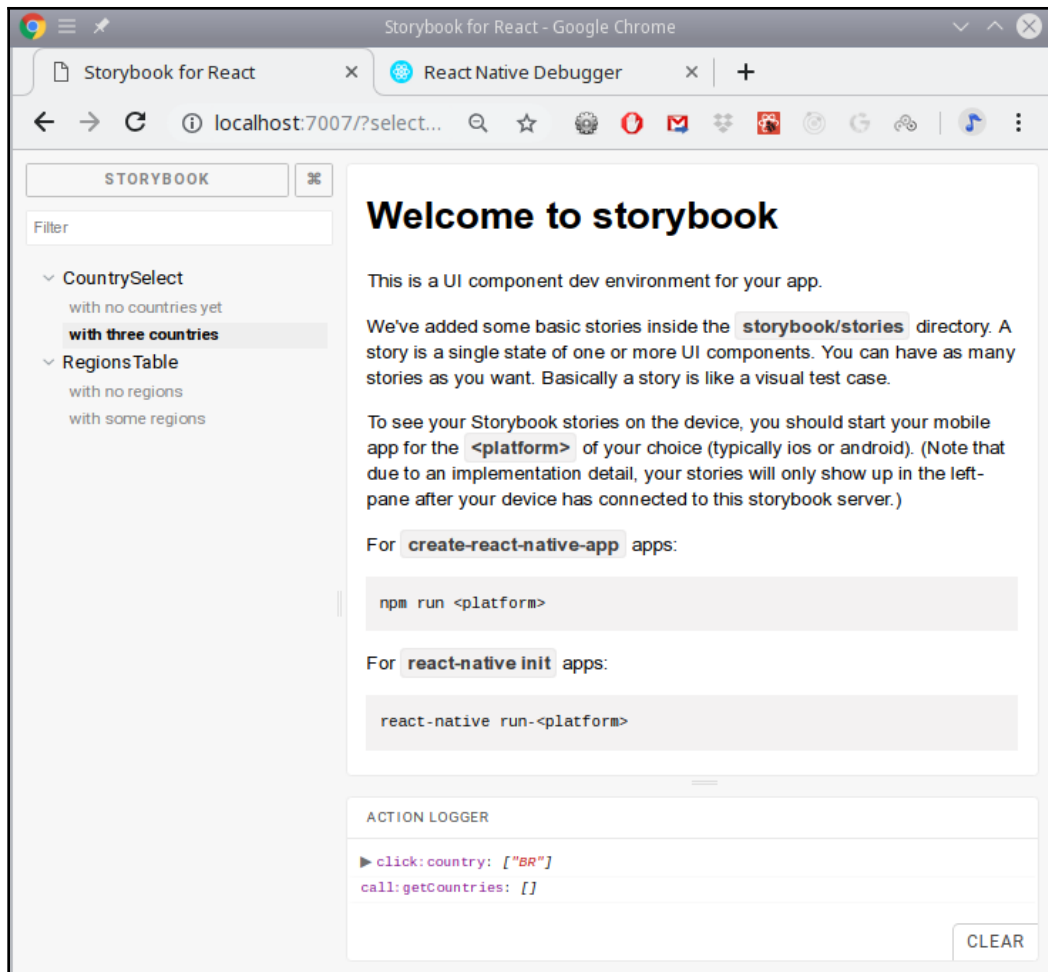
Code coverage generated by [istanbul](#) at Tue Nov 20 2018 20:14:03 GMT-0300 (Uruguay Standard Time)

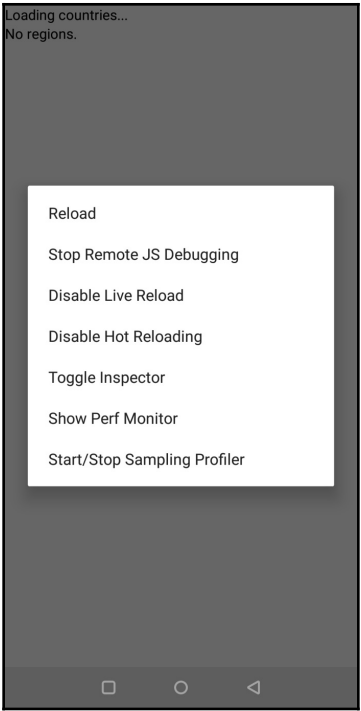


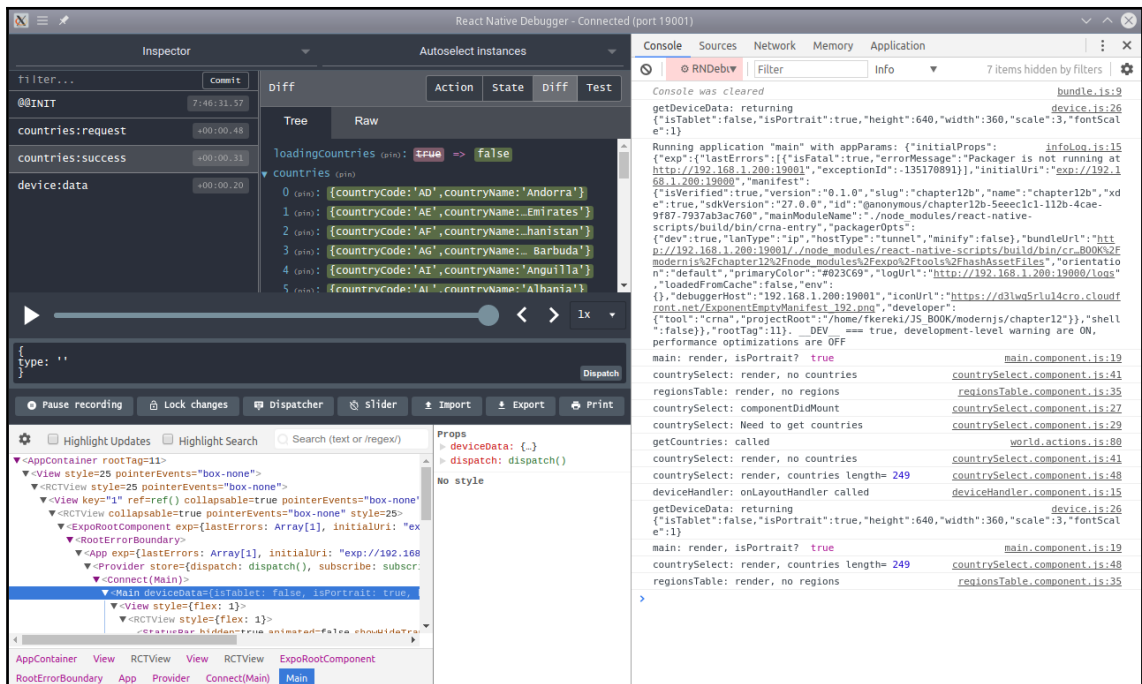


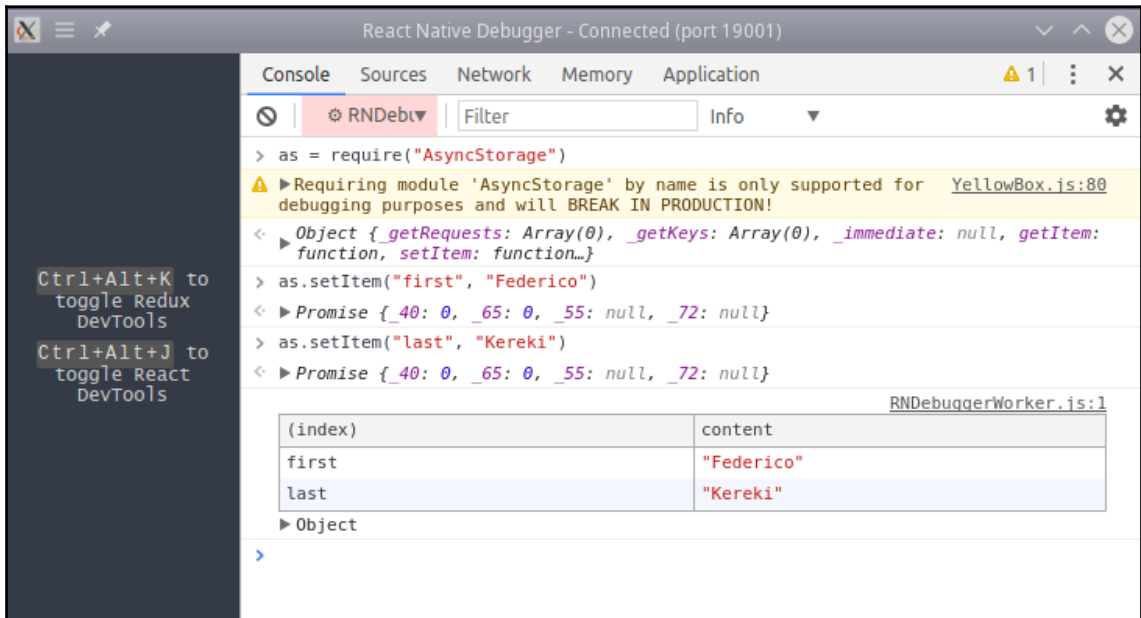
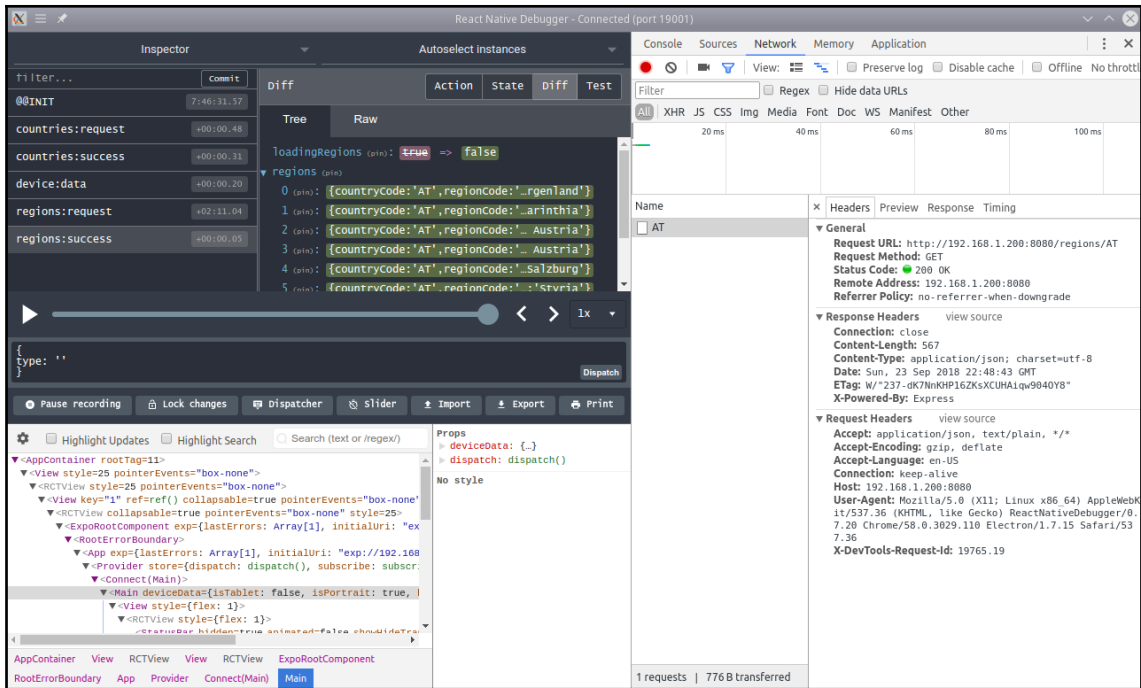


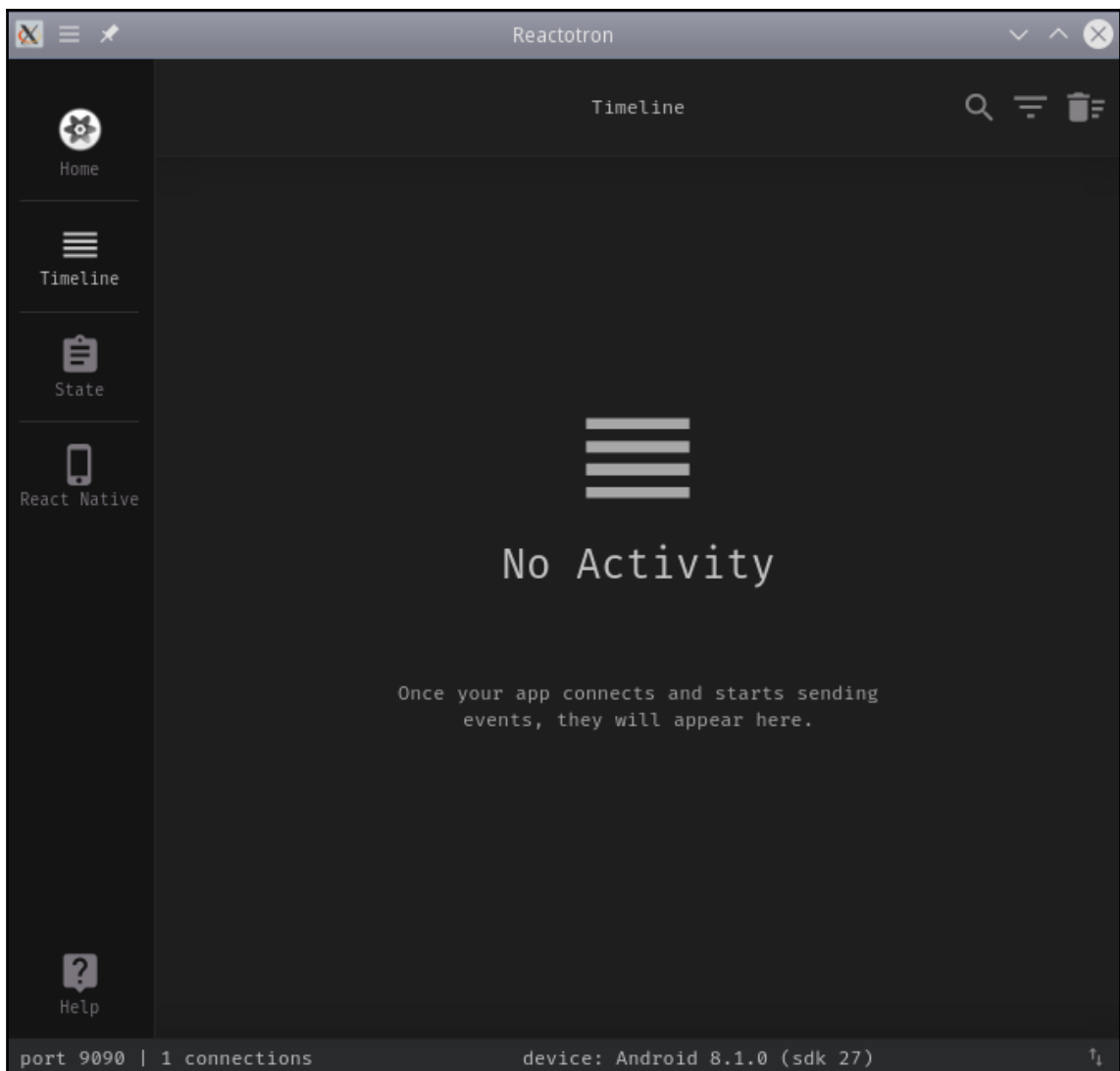


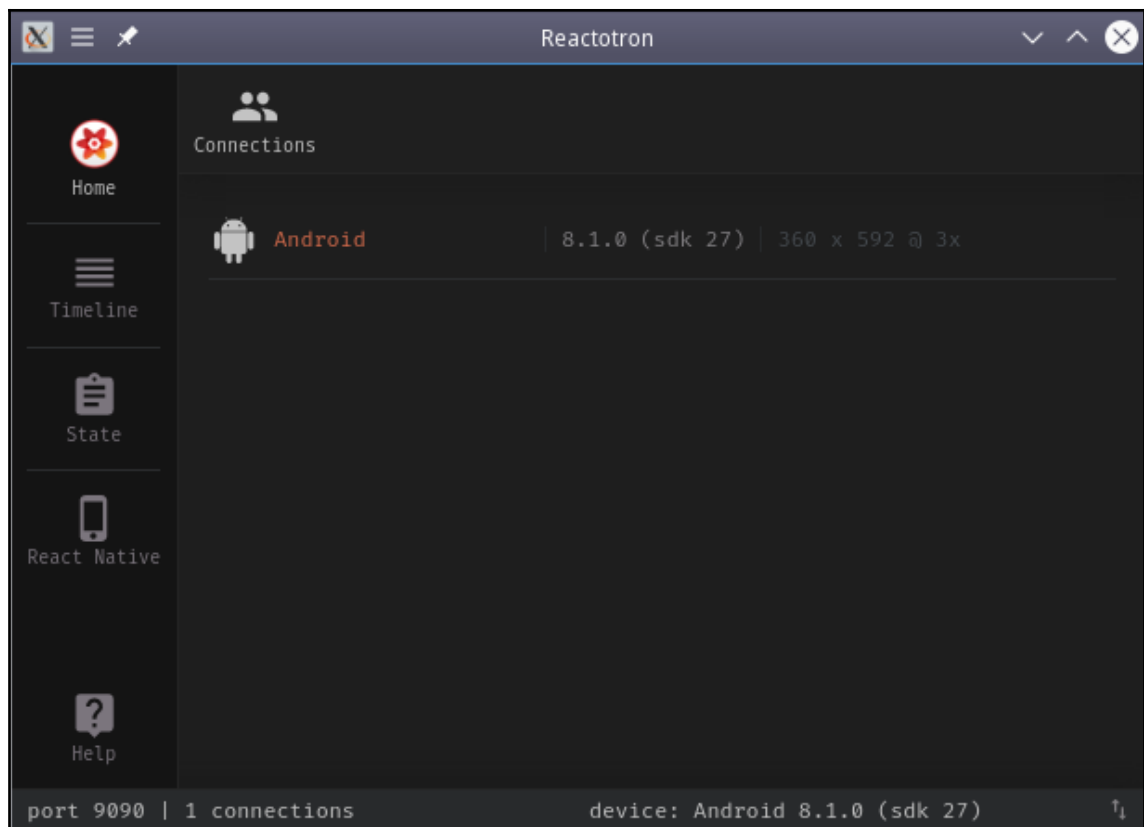













Home


Timeline


State


React Native


Help

Timeline

+6 ms
3:16:32.785 ACTIONdevice: data>

+3 ms
3:16:32.779 ASYNC STORAGEsetItem: Date>

+27 ms
3:16:32.776 ACTIONcountries: success>

+2 ms
3:16:32.749 SUBSCRIPTIONS1 changed>

+7 ms
3:16:32.747 API RESPONSEGET http://192.168.1.200:8080/countries>

3:16:32.740 ASYNC STORAGEsetItem: Last>

+24 ms
3:16:32.740 SUBSCRIPTIONS1 added>

+61 ms
3:16:32.716 ACTIONcountries: request>

+8 ms
3:16:32.655 ASYNC STORAGEsetItem: First>

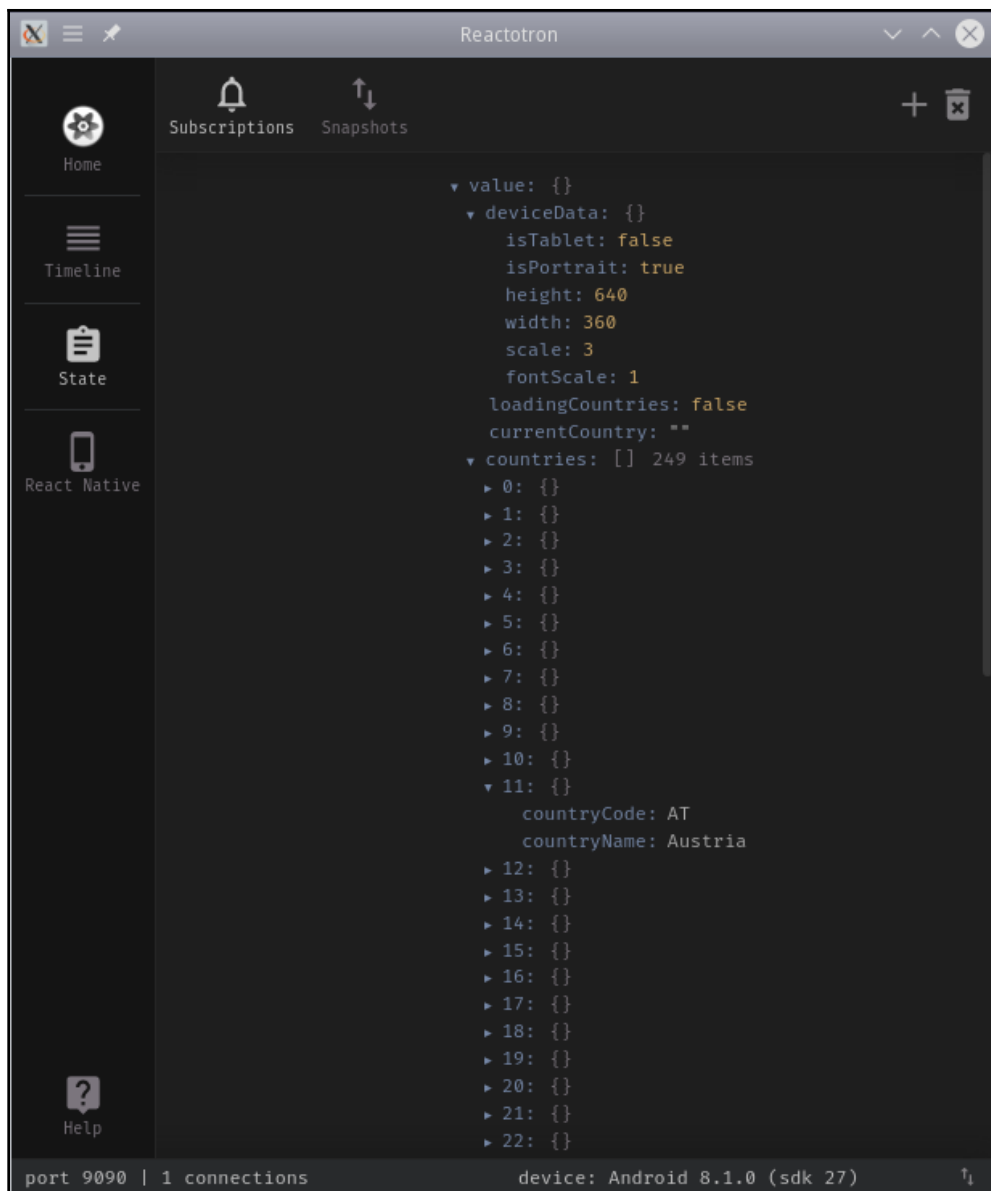
3:16:32.647 ERRORAnother nice mess you've gotten me into.>

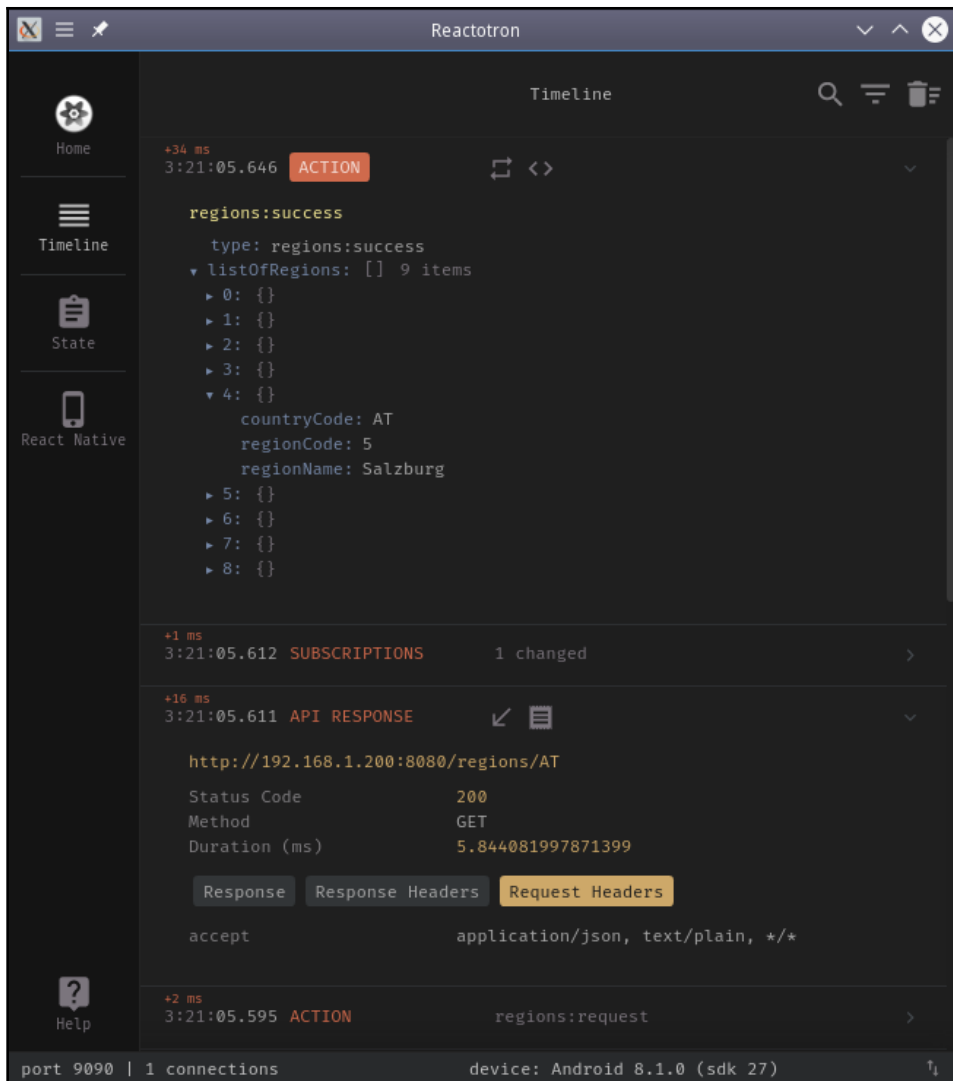
+1 ms
3:16:32.647 WARNINGIf you must make a noise, make it quietly>

+~98 ms
3:16:32.646 DEBUGA knick-knack is a thing that sits on top of a whatnot>

3:16:32.744 CONNECTIONReact Native App>

port 9090 | 1 connectionsdevice: Android 8.1.0 (sdk 27)





Chapter 13: Creating a Desktop Application with Electron

