

# Chapter 01: Exploring React Testing Library

Email Address

Subscribe to our newsletter!

Subscribe

*286 x 180*

Steve Williams

Software Engineer III

Hide Details

I love building with React!

**PASS** src/ProfileDOMTestingLib.test.js

✓ Profile, given click "hide details" button, shows "display details" button (75ms)

Test Suites: 1 passed, 1 total

Tests: 1 passed, 1 total

Snapshots: 0 total

Time: 2.01s

Ran all test suites matching /src/ProfileDOMTestingLib.test.js/i.

## Sign In

Username

Password

☐ Remember Me

Login

- Login, given credentials, returns enabled submit button

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

Expected: **true**

Received: **false**

```
const loginBtn = screen.getByRole('button', { name: /submit/i });
```

```
> expect(loginBtn.hasAttribute('disabled')).toBe(true);
```

**FAIL** src/Login.test.js

✖ Login, given credentials, returns enabled submit button (104ms)

- Login, given credentials, returns enabled submit button

expect(element).not.toBeDisabled()

Received element is disabled:

```
<input class="btn btn-primary w-100" disabled="" type="submit" value="Login" />
```

*286 x 180*

**Steve Williams**

Software Engineer III

Hide Details

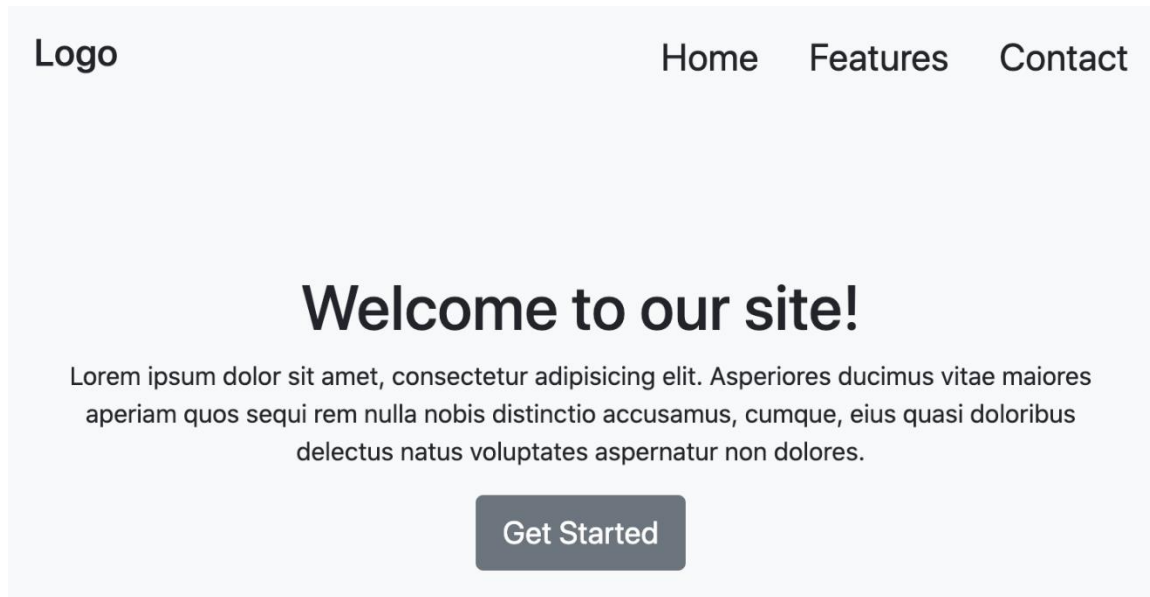
I love building with React!

Subtract

0

Add

# Chapter 02: Working with React Testing Library



```
PASS src/Jumbotron.test.js
✓ displays the heading (64ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        1.803s, estimated 2s
```



## Travel Anywhere

Our premium package allows you to  
take exotic trips anywhere at the  
cheapest prices!

**FAIL** src/Travel.test.js

✗ displays the header and paragraph text (27 ms)

- displays the header and paragraph text

```
expect(received).toMatchInlineSnapshot(snapshot)
```

Snapshot name: `displays the header and paragraph text 1`

```
- Snapshot - 1  
+ Received + 1
```

```
@@ -8,11 +8,11 @@  
    style="font-size: 4rem;"  
  >  
    airplanemode_active  
  </i>  
  <h4>  
-   Travel Anywhere  
+   Go Anywhere  
  </h4>  
  <p  
    class="p-1"
```

Name	Department	Title
John Smith	Sales	Senior Sales Agent
Sarah Jenkins	Engineering	Senior Full-Stack Engineer
Tim Reynolds	Design	Designer

**PASS** src/Travel.test.js

- Console

```
console.log
  <body>
    <div>
      <div
        class="card text-center m-1"
        style="width: 18rem;"
      >
        <i
          class="material-icons"
          style="font-size: 4rem;"
        >
          airplanemode_active
        </i>
        <h4>
          Travel Anywhere
        </h4>
        <p
          class="p-1"
        >
          Our premium package allows you to take exotic trips anywhere at the cheapest prices!
        </p>
      </div>
    </div>
  </body>
```

**PASS** src/Travel.test.js

✓ displays the header and paragraph text (88 ms)

```
console.log
  <h4>
    Travel Anywhere
  </h4>
```

## Chapter 03: Testing Complex Components with React Testing Library

Note: You are not allowed to change your vote once selected!



10



Note: You are not allowed to change your vote once selected!



11



Note: You are not allowed to change your vote once selected!



9



**PASS** src/Vote.test.js

- ✓ increases total likes by one (156 ms)
- ✓ decreases total likes by one (54 ms)
- ✓ A user can only vote once (49 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 3 passed, 3 total

**Snapshots:** 0 total

**Time:** 2.364 s, estimated 3 s

Ran all test suites matching /src\/Vote\.test\.js/i.

johndoe@software-plus.com

jane.doe@software-plus.com

**PASS** src/EmployeeEmail.test.js

- ✓ it accepts a username and displays to the screen (99 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 1.452 s

Ran all test suites matching /src\/EmployeeEmail\.test\.js/i.





**PASS** src/VoteBtn.test.js

✓ invokes handleVote (88 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 1.207 s

Ran all test suites matching /src\/VoteBtn\.test\.js/i.

Search

Search



### Gin Fizz

#### Ingredients

Gin Lemon Powdered sugar  
Carbonated water

#### Instructions

Shake all ingredients with ice cubes, except soda water. Pour into glass. Top with soda water.



### Gin Sour

#### Ingredients

Gin Lemon juice Sugar Orange  
Maraschino cherry

#### Instructions

In a shaker half-filled with ice cubes, combine the gin, lemon juice, and sugar. Shake well. Strain into a sour glass and garnish with the orange slice and the cherry.



### Pink Gin

#### Ingredients

Bitters Gin

#### Instructions

Pour the bitters into a wine glass. Swirl the glass to coat the inside with the bitters, shake out the excess. Pour the gin into the glass. Do not add ice.

Search

🍹 No drinks found 🍹

Search

🛑 Service unavailable 🛑

**FAIL** src/DrinkSearch.test.js

✗ renders mock drink data (232 ms)

• renders mock drink data

TestingLibraryElementError: Unable to find an accessible element with the role "img" and name `/test drink/i`

**PASS** src/DrinkSearch.test.js

✓ renders mock drink data (206 ms)

✓ renders no drink results (83 ms)

✓ renders service unavailable (63 ms)

✓ prevents GET request when search input empty (19 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 4 passed, 4 total

**Snapshots:** 0 total

**Time:** 1.02 s

Ran all test suites matching /src\/DrinkSearch\.test\.js/i.

**FAIL** src/VoteBtn.test.js

Vote Button

✗ given image and vote status, renders button to screen (56 ms)

• Vote Button › given image and vote status, renders button to screen

TestingLibraryElementError: Unable to find an accessible element with the role "img" and name "vote like"

**PASS** src/VoteBtn.test.js

Vote Button

✓ given image and vote status, renders button to screen (114 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 2.841 s

Ran all test suites matching /src\/VoteBtn\.test\.js/i.

**FAIL** src/VoteBtn.test.js

Vote Button

✗ given clicked button, invokes handleVote (128 ms)

• **Vote Button › given clicked button, invokes handleVote**

expect(jest.fn()).toHaveBeenCalled()

Expected number of calls: >= 1

Received number of calls: 0

user.click(screen.getByRole('button', { name: /vote like/i })))

**PASS** src/VoteBtn.test.js

Vote Button

✓ given clicked button, invokes handleVote (90 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 4.22 s

# Register here

Email Address

Create Password

Submit

**FAIL** `src/Register.test.js`

Registration

✗ given submitted form, invokes handleRegister (31 ms)

• Registration › given submitted form, invokes handleRegister

TestingLibraryElementError: Unable to find a label with the text of: Email Address

**FAIL** `src/Register.test.js`

Registration

✗ given submitted form, invokes handleRegister (150 ms)

• Registration › given submitted form, invokes handleRegister

expect(jest.fn()).toHaveBeenCalledWith(...expected)

Expected: {"email": "john@mail.com", "password": "123"}

Number of calls: 0

user.click(screen.getByRole('button', { name: /submit/i }))

**PASS** src/Register.test.js

Registration

✓ given submitted form, invokes handleRegister (158 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 2.015 s

**PASS** src/Register.test.js

Registration

✓ given submitted form, invokes handleRegister (141 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 1.977 s, estimated 2 s

# Chapter 04: Integration Testing and Third Party Libraries in Your Application

```
PASS src/Vote.test.js
Vote
  ✓ given "up" vote, total likes increases by one (119 ms)
  ✓ given "down" vote, total likes decreases by one (35 ms)
  ✓ given vote, returns disabled vote buttons (49 ms)
Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        4.176 s
Ran all test suites matching /src\/Vote\.test\.js/i.
```

## Register here

Email Address

Create Password

Submit

# Register here

## Registration Successful!

Retail Store

🛒 0 Items

Subtotal \$0.00



Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

\$109.95



Mens Casual Premium Slim Fit T-Shirts

\$22.99



Mens Cotton Jacket

\$55.99



### Mens Casual Premium Slim Fit T-Shirts

Slim-fitting style, contrast raglan long sleeve, three-button henley placket, light weight & soft fabric for breathable and comfortable wearing. And Solid stitched shirts with round neck made for durability and a great fit for casual fashion wear and diehard baseball fans. The Henley style round neckline includes a three-button placket.

\$22.99

ADD TO FAVORITES

Qty: 1

ADD TO CART

🛒 0 Items

Subtotal \$0.00



Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops



Mens Casual Premium Slim Fit T-Shirts

\$22.99



Mens Cotton Jacket

\$55.99





## Mens Casual Premium Slim Fit T-Shirts

Slim-fitting style, contrast raglan long sleeve, three-button henley placket, light weight & soft fabric for breathable and comfortable wearing. And Solid stitched shirts with round neck made for durability and a great fit for casual fashion wear and diehard baseball fans. The Henley style round neckline includes a three-button placket.

**\$22.99**

ADDED TO FAVORITES

Qty:

ADD TO CART



## Mens Casual Premium Slim Fit T-Shirts

Slim-fitting style, contrast raglan long sleeve, three-button henley placket, light weight & soft fabric for breathable and comfortable wearing. And Solid stitched shirts with round neck made for durability and a great fit for casual fashion wear and diehard baseball fans. The Henley style round neckline includes a three-button placket.

**\$22.99**

ADDED TO FAVORITES

Qty:

ADD TO CART

1 Items

Qty: 3 **\$22.99** Mens Casual Premium Slim Fit T-Shirts

Subtotal **\$68.97**

**PASS** `src/Cart.test.js`

✓ Cart, given initial render, returns empty cart (37 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 2.884 s

Ran all test suites matching `/src\/Cart\.test\.js/i`.

**PASS** `src/Product.test.js`

✓ Product, given product properties, renders to screen (39 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 1.516 s

Ran all test suites matching `/src\/Product\.test\.js/i`.

**PASS** src/ProductDetail.test.js

✓ ProductDetail, given initial render, displays Placeholder component (72 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 1.71 s

Ran all test suites matching /src\/ProductDetail\.test\.js/i.

**FAIL** src/Cart.test.js

✗ Cart, given initial render, displays empty cart (94 ms)

• **Cart, given initial render, displays empty cart**

TypeError: store.getState is not a function

```
test('Cart, given initial render, displays empty cart', () => {  
  >   render(  
    ^  
      <Provider store={'some test data'}>  
        <Cart />  
      </Provider>  
    )  
})
```

**PASS** src/Cart.test.js

✓ Cart, given initial render, displays empty cart (34 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 4.037 s

Ran all test suites matching /src\/Cart\.test\.js/i.

console.error

Warning: An update to Table inside a test was not wrapped in act(...).

When testing, code that causes React state updates should be wrapped into act(...):

**PASS** src/Table.test.js

Table

✓ given initial render, returns loading message (50 ms)

✓ given completed state, renders employee data (30 ms)

✓ given error state, renders error message (10 ms)



10



**PASS** `src/Vote.test.js`

Vote

- ✓ given multiple "down" votes, total likes only decrease by one (183 ms)
- ✓ given retracted "up" vote, returns original total likes (104 ms)






**Test Suites:** 1 passed, 1 total



**Tests:** 2 passed, 2 total

**Snapshots:** 0 total

**Time:** 1.524 s

Ran all test suites matching `/src\/Vote\.test\.js/i`.

filter results				
Name	Avatar	Address	email	phone
Darcee Staveley		691 Bashford Street	dstaveley0@angelfire.com	(330) 7511940
Valli Port		58 Wayridge Hill	vport1@istockphoto.com	(807) 5590500
Joete Oolahen		18 Bashford Trail	joolahan2@flavors.me	(670) 3201530
Stephanus Grane		729 Fuller Pass	sgrane3@dailymail.co.uk	(410) 8723323
Margery Purdy		519 Anhalt Lane	mpurdy4@technorati.com	(498) 6639434

filter results				
da				
Name	Avatar	Address	email	phone
Darcee Staveley		691 Bashford Street	dstaveley0@angelfire.com	(330) 7511940
Stephanus Grane		729 Fuller Pass	sgrane3@dailymail.co.uk	(410) 8723323


```

PASS src/CustomTable.test.js
  CustomerTable
    ✓ given data, renders table rows (121 ms)
    ✓ given single-matching query, single result returned (170 ms)
    ✓ given non-matching query, no results returned (89 ms)

Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        4.998 s
Ran all test suites matching /src\/CustomTable\.test\.js/i.

```

# Chapter 05: Refactoring Legacy Applications with React Testing Library



You've budgeted...

Income: \$0

Spending: \$0

---

Left over: \$0

Set your income and create some budgets!

SET INCOME

CREATE NEW BUDGET

Enter your total income.

Amount

\$ Enter a number

SUBMIT

Select a category and enter a budget amount.

Category ▼

Amount

\$ Enter a number

\* Budgets must be in increments of 5.

\* Amounts less than 5 will default to \$5.

ADD BUDGET



```
Integration: Budget App
  ✓ SetIncome, given income amount, sets income (415 ms)
  ✓ DeleteBudget, given deleted budget, budget removed from DOM (274 ms)
  CreateNewBudget
    ✓ given budget, updates budget summary (698 ms)
    ✓ given budget, updates budget summary (559 ms)
    ✓ given budget, updates budget summary (535 ms)
    ✓ given budget, displays budget chart (302 ms)
  Budget
    ✓ given budget, displays details (500 ms)
    ✓ given budget expense, updates budget progress (757 ms)

Test Suites: 1 passed, 1 total
Tests:       8 passed, 8 total
Snapshots:   0 total
Time:        9.056 s
Ran all test suites.
```

```
Test Suites: 1 failed, 1 total
Tests:       6 failed, 2 passed, 8 total
Snapshots:   0 total
Time:        20.872 s
Ran all test suites.
```

```
PASS src/components/App.test.js (7.519 s)
Integration: Budget App
  ✓ SetIncome, given income amount, sets income (459 ms)
  ✓ DeleteBudget, given deleted budget, budget removed from DOM (260 ms)
  CreateNewBudget
    ✓ given budget, updates budget summary (686 ms)
    ✓ given budget, updates budget summary (581 ms)
    ✓ given budget, updates budget summary (517 ms)
    ✓ given budget, displays budget chart (272 ms)
  Budget
    ✓ given budget, displays details (459 ms)
    ✓ given budget expense, updates budget progress (736 ms)

Test Suites: 1 passed, 1 total
Tests:       8 passed, 8 total
Snapshots:   0 total
Time:        8.767 s, estimated 24 s
Ran all test suites.
```

```
PASS src/components/App.test.js
  ✓ SetIncome, given initial render, displays budget summary values (113 ms)
Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        4.66 s
Ran all test suites.
```

All fields marked with \* are required

Name \*

Email \*

Rating \*

Comments \*

Submit



All fields marked with \* are required

Name \*

Name Required

Email \*

Email Required

Rating \*

Rating Required

Comments \*

Comments Required

Submit

We appreciate your responses John Doe!

**PASS** `src/App.test.js`

- ✓ Form, given blank Name input value, displays error message (105 ms)
- ✓ Form, given blank Email input value, displays error message (31 ms)
- ✓ Form, given blank Rating input value, displays error message (30 ms)
- ✓ Form, given blank Comments input value, displays error message (25 ms)
- ✓ Email Input, given invalid value "a", displays error message (159 ms)
- ✓ Email Input, given invalid value "a@b", displays error message (97 ms)
- ✓ Email Input, given invalid value "a@b.c", displays error message (92 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 7 passed, 7 total

**Snapshots:** 0 total

**Time:** 4.142 s, estimated 7 s

# Chapter 06: Implementing Additional Tools & Plugins for Testing

```
reverseWord('packt') // tkcap  
^  
ReferenceError: reverseWord is not defined
```

```
1:7  error  'reverseWord' is assigned a value but never used  no-unused-vars  
3:1  error  'reverseWord' is not defined                      no-undef  
* 2 problems (2 errors, 0 warnings)
```

Programming Language ▼

JavaScript

Ruby

Java

C#

Programming Language ▼

**You selected: JavaScript**

```
(alias) const screen: Screen<typeof queries>
import screen

Prefer findByRole method over using await waitFor(() =>
  screen.getByRole('heading', { name: /you selected:
javascript/i })
) eslint(testing-library/prefer-find-by)
Peek Problem (⌘F8) Quick Fix... (⌘.)
screen.getByRole('heading', { name: /you selected: javascript/i })
)
```

```
test('Language Use screen to query DOM elements, `screen.getByRole` eslint(testing-library/prefer-
const { get screen-queries)
Peek Problem (⌘F8) Quick Fix... (⌘.)
user.click(getByRole('button', { name: /programming language/i })))
```

```
test('Language Unexpected debug statement eslint(testing-library/no-debug)
render( Peek Problem (⌘F8) Quick Fix... (⌘.)
screen.debug()
```

## Select Preferred Languages

☐ JavaScript ☐ Ruby ☐ Java ☐ C#

## Select Preferred Languages

☒ **JavaScript** ☐ Ruby ☐ Java ☐ C#

```
user.click(jsCheck
Use toBeChecked() instead of
toHaveProperty("checked", true) eslint(jest-
dom/prefer-checked)
expect(jsCheckbox).toHaveProperty("checked", true);
```

```
expect(jsCheckbox).toBeC
Prefer .toHaveClass() over checking element
className eslint(jest-dom/prefer-to-have-class)
expect(screen.getByText(/javascript/i).className).toContain('text-succes
```

# Example Inaccessible Input element

Submit

Expected the HTML found at \$('input') to have no violations:

```
<input src="login.png" type="image">
```

Received:

"Image buttons must have alternate text (input-image-alt)"

Fix any of the following:

- Element has no alt attribute

- aria-label attribute does not exist or is empty

- aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty

- Element has no title attribute

You can find more information on this issue here:

<https://dequeuniversity.com/rules/axe/4.1/input-image-alt?application=axeAPI>

**PASS** src/NoAccessibility.test.js

✓ NoAccessibility, given accessibility audit, returns no violations (129 ms)

**Test Suites:** 1 passed, 1 total

**Tests:** 1 passed, 1 total

**Snapshots:** 0 total

**Time:** 4.526 s

Ran all test suites matching /src/NoAccessibility.test.js/i.

# Example Inaccessible Unordered List

- Building with React
- Testing with React Testing Library



```
Expected the HTML found at $('ul') to have no violations:

<ul><li>Building with React</li><li>Testing with React Testing Library</li><img src=
tp://unsplash.it/g/200?random&gravity=center" alt="tulips"></ul>

Received:

"<ul> and <ol> must only directly contain <li>, <script> or <template> elements (list)"

Fix all of the following:
  List element has direct children that are not allowed inside <li> elements

You can find more information on this issue here:
https://dequeuniversity.com/rules/axe/4.1/list?application=axeAPI
```

## More Info

Lorem ipsum

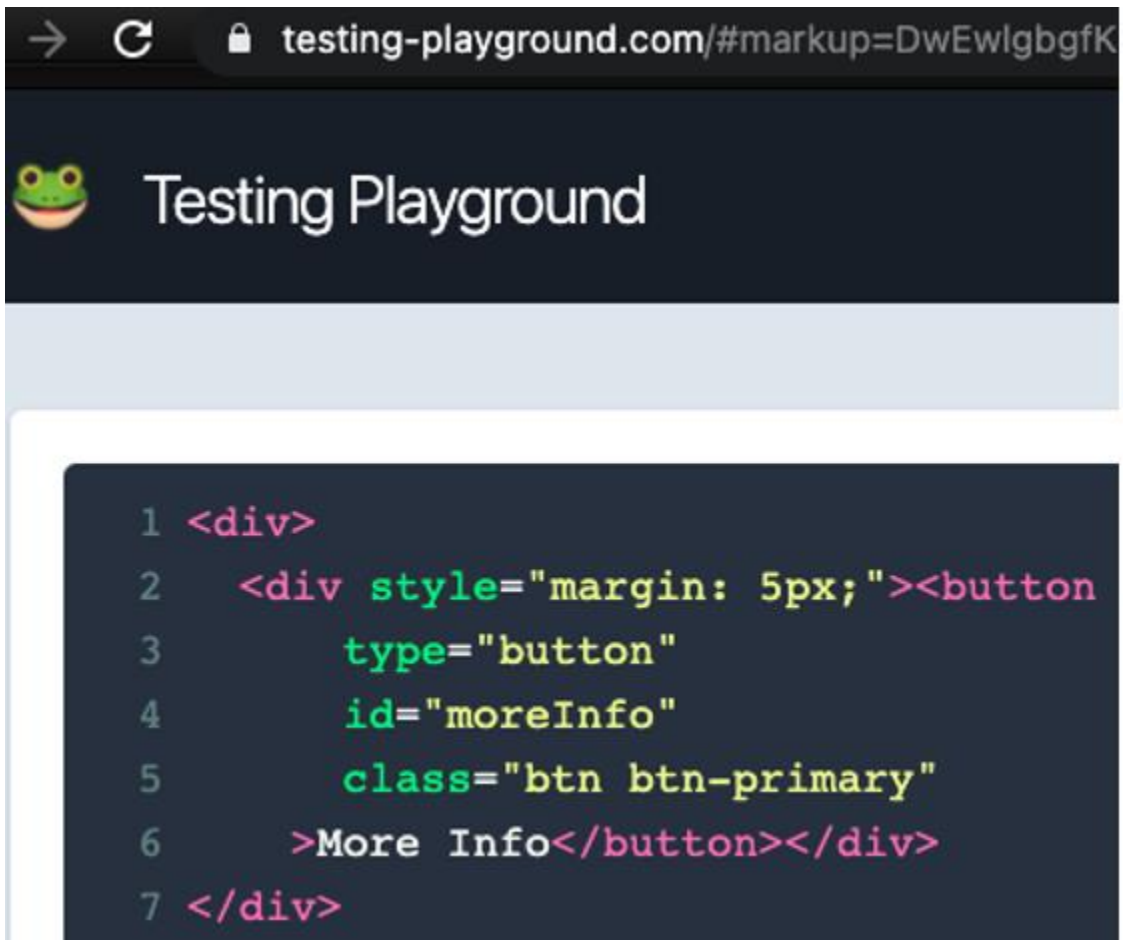
Lorem ipsum dolor sit amet  
consectetur adipisicing elit.

```
console.log
```

```
Open this URL in your browser
```

```
https://testing-playground.com/#markup=DwEwlgbgfKkAQGcAuBPANGUwLwCIC2AhgE4DmYAdgFwxCsADgB4Dc0MARGK5JID25cq0thydufHHDAhceHkQwBJcgDMeEgMZoCCBLjZJ++8gFo6RMISIpWAWTkY4S1cAD0o3uRgvw0Vz6hAA
```

```
at Object.logTestingPlaygroundURL (node_modules/@testing-library/dom/dist/screen.js:47:11)
```



More Info

### suggested query

```
> getByRole('button', { name: /more info/i })
```



This is great. Ship it!

#### 1. Queries Accessible to Everyone

Role  
button

LabelText  
n/a

#### 2. Semantic Queries

AltText  
n/a

Title  
n/a



## 1. Queries Accessible to Everyone

Role  
button

LabelText  
n/a

PlaceholderText  
n/a

Text  
more info

DisplayValue

## 2. Semantic Queries

AltText  
n/a

Title  
n/a

## 3. Test IDs

TestId  
n/a

### suggested query

```
> getByRole('button', { name: /more info/i })
```

🔍 📄

Console Elements Network Performance Sources Application Memory Security Lighthouse Testing Playground ⚠️ 6 ⚙️ ⋮ ✕

🔍 🚫

```
1 screen.getByRole('button', {  
2   name: /more info/i  
3 })
```

suggested query

> getByRole('button', { name: /more info/i })

📄

### suggested query

```
> getByRole('heading', { name: /lorem ipsum/i })
```



```
PASS src/MoreInfoPopover.test.js
  ✓ MoreInfoPopover, given clicked button, displays popover (235 ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        2.153 s, estimated 3 s
Ran all test suites matching /src\/MoreInfoPopover\.test\.js/i.
```

```
>wallaby
Wallaby.js: Select Configuration recently used ⚙
```

Automatic Configuration <project directory>

Automatic Configuration <custom directory>...

```
Debug | View story | Profile | Focus
5 it('logs output to Testing Playground', () => { 45ms
6   render(<MoreInfoPopover />)
7   screen.logTestingPlaygroundURL()
8 })
```

```
<body>
  <div>
    <div
      style="margin: 5px;"
    >
      <button
        class="btn btn-primary"
        id="moreInfo"
        type="button"
      >
        button, displays popover',
screen.debug() //? ... n-primary" id="moreInfo" type="button"
```

```

1 Unable to find an accessible element with the role "heading"
2 and name `/lorem ipsum/i`
3
4 Here are the accessible roles:
5
6 button:
7
8 Name "More Info":
9 <button
10 class="btn btn-primary"
11
12 test('MoreInfoPopover, given clicked button, displays popover', () => {
13   render(<MoreInfoPopover />)
14   user.click(screen.getByRole('button', { name: /more info/i }))
15   const popover = screen.getByRole('heading', { name: /lorem ipsum/i })

```

TERMINAL PROBLEMS 6 OUTPUT DEBUG CONSOLE Wallaby.js Tests

1 failing test, 5 passing [Launch Coverage & Test Explorer](#) | [Search Tests](#)

MoreInfoPopover, given clicked button, displays popover [95 ms] [Debug test](#) | [Open test story](#)

TestingLibraryElementError: Unable to find an accessible element with the role "heading" and name `/lorem ipsum/i`

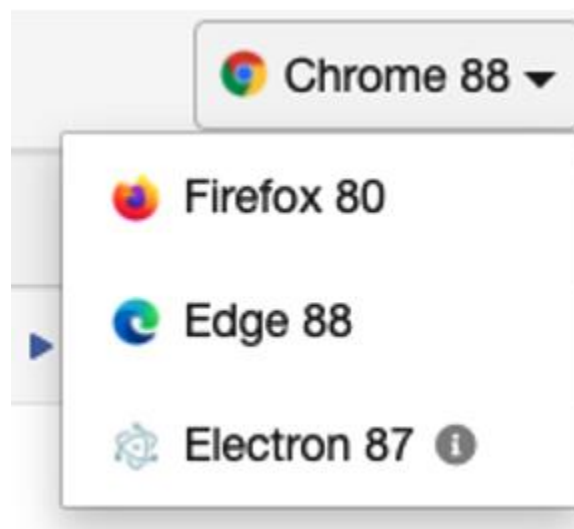
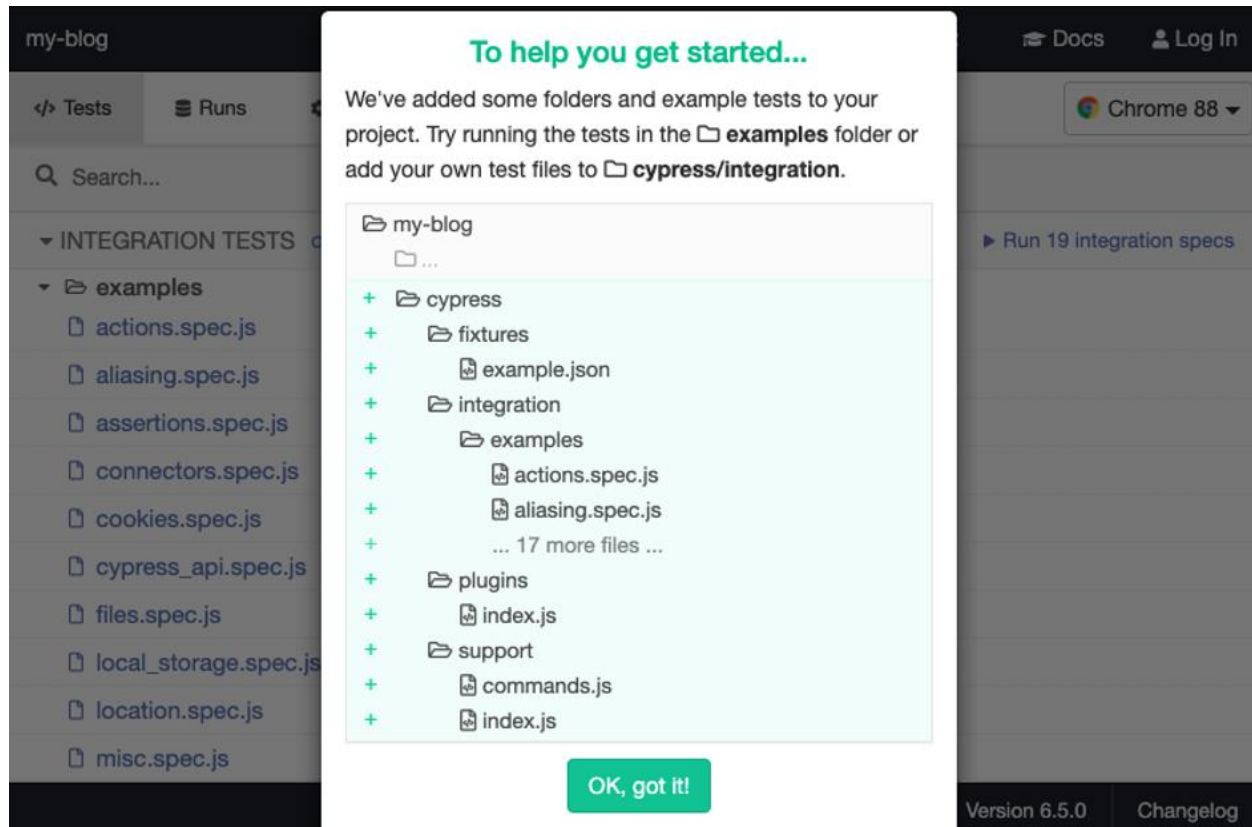
Here are the accessible roles:

```

9 test('MoreInfoPopover, given clicked button, displays popover', async () => {
10   render(<MoreInfoPopover />)
11   user.click(screen.getByRole('button', { name: /more info/i }))
12   const popover = await screen.findByRole('heading', { name: /lorem ipsum/i })
13
14   expect(popover).toBeInTheDocument()
15 })

```

# Chapter 07: End-to-End UI Testing with Cypress



Tests

14

14.48

https://example.cypress.io/commands/actions

1000 x 660 (83%)

cypress/e2e/examples/actions.spec.js

Actions

✓ .type() - type into a DOM element

✓ .focus() - focus on a DOM element

✓ .blur() - blur off a DOM element

✓ .clear() - clears an input or textarea element

✓ .submit() - submit a form

✓ .click() - click on a DOM element

✓ .dblclick() - double click on a DOM element

✓ .rightclick() - right click on a DOM element

✓ .check() - check a checkbox or radio element

✓ .unchecked() - uncheck a checkbox element

✓ .select() - select an option in a <select> element

✓ .scrollIntoView() - scroll an element into view

✓ .trigger() - trigger an event on a DOM element

✓ cy.scrollTo() - scroll the window or element to a position

// .type() with special character sequences

.type('{leftarrow}{rightarrow}{uparrow}{downarrow}')

.type('{del}{selectall}{backspace}')

// .type() with key modifiers

.type('{alt}{option}') //these are equivalent

.type('{ctrl}{control}') //these are equivalent

.type('{meta}{command}{cmd}') //these are equivalent

.type('{shift}')

// Delay each keypress by 0.1 sec

.type('slow.typing@email.com', { delay: 100 })

.should('have.value', 'slow.typing@email.com')

cy.get('.action-disabled')

// Ignore error checking prior to type

// like whether the input is visible or disabled

.type('disabled error checking', { force: true })

.should('have.value', 'disabled error checking')

.focus()

To focus on a DOM element, use the `.focus()` command.

cy.get('.action-focus').focus()

.should('have.class', 'focus')

.prev().should('have.attr', 'style', 'color: orange;')

Email

Disabled Textarea

Password

Password

1 visit /

2 get input[name="firSDFstName"] 0

AssertionError

Timed out retrying after 4000ms: Expected to find element: `input[name="firSDFstName"]`, but never found it.

cypress/e2e/checkOutFlow.spec.js:8:8

6

# Checkout

1 Shipping address — 2 Payment details — 3 Review your order

## Shipping address

First name \* Last name \*

Address line 1 \*

Address line 2

City \* State/Province/Region

Zip / Postal code \* Country \*

NEXT

# Checkout

✓ Shipping address — 2 Payment details — 3 Review your order

## Payment method

Card type \* Name on card \*

Card number \* Expiration Date \*

CVV \*

Last three digits on signature strip

BACK

NEXT

# Checkout

✓ Shipping address ——— ✓ Payment details ——— 3 Review your order

## Order summary

<b>T-shirt</b> White Fitted Shirt	\$19.99
<b>Denim Jeans</b> GAP Jeans	\$29.99
<b>Nike Free Runner</b> black/grey running shoe	\$49.99
<b>Shipping</b>	Free
<b>Total</b>	<b>\$99.97</b>

## Shipping

John Doe  
123 Street  
Miami, FL 33101  
USA

## Payment details

Card Type	Visa
Card Holder	John Doe
Card Number	12345678910
Expiry Date	10/20/23

BACK

PLACE ORDER

# Checkout

✓ Shipping address ——— ✓ Payment details ——— ✓ Review your order

Thank you for your order.

Your order number is #2001539. We have emailed your order confirmation, and will send you an update when your order has shipped.

The screenshot shows the Cypress test runner interface. The top bar indicates 1 test passed (green checkmark) and 1 test failed (red X). The test suite is named 'cypress/e2e/checkOutFlow.spec.js'. The test suite contains 11 steps, all of which failed. The failures are listed in the left pane, with the error message 'expected <p.MuiTypography-root.MuiTypography-body1.MuiTypography-gutterBottom> to be visible' repeated for each step. The right pane shows the rendered HTML of the checkout page, which matches the visual representation in the first block of the prompt.

Line	Command	Argument	Failure Message
38	contains	Visa	
39	- assert		expected <p.MuiTypography-root.MuiTypography-body1.MuiTypography-gutterBottom> to be visible
40	contains	Ella Stokes	
41	- assert		expected <p.MuiTypography-root.MuiTypography-body1.MuiTypography-gutterBottom> to be visible
42	contains	6706570811532114527	
43	- assert		expected <p.MuiTypography-root.MuiTypography-body1.MuiTypography-gutterBottom> to be visible
44	contains	0522	
45	- assert		expected <p.MuiTypography-root.MuiTypography-body1.MuiTypography-gutterBottom> to be visible
46	contains	/place order/i	
47	- click		
48	contains	/thank you for your order/i	
49	- assert		expected <h5.MuiTypography-root.MuiTypography-h5.MuiTypography-gutterBottom> to be visible
50	contains	/your order number is #2001539/i	
51	- assert		expected <h6.MuiTypography-root.MuiTypography-subtitle1> to be visible

# MY BLOG

JAVASCRIPT

## I love React

Published on February 25, 2021

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco la...

[CONTINUE READING→](#)

GOOGLE

## I love Angular

February 10, 2021

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[<BACK TO BLOG](#)

# I love React

Published February 25, 2021



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cypress/e2e/blogFlow.spec.js

## Blog Flow

✖ allows a user to create a new blog post

### TEST BODY

```
1 visit /
2 findByRole link, {name: /new post/i}
```

#### TestingLibraryElementError

Timed out retrying after 4000ms: Unable to find an accessible element with the role "link" and name /new post/i

Here are the accessible roles:

document:

Name "":



# MY BLOG

JAVASCRIPT

## I love React

Published on February 25, 2021

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco la...

CONTINUE READING →

cypress/e2e/blogFlow.spec.js

## Blog Flow

✖ allows a user to create a new blog post

### TEST BODY

```
1 visit /
2 findByRole link, {name: /new post/i}
3 - click
4 findByRole textbox, {name: /title/i}
(new url) http://localhost:3000/add
(xhr) GET 200 /_next/static/webpack/81c151...
```

#### TestingLibraryElementError

Timed out retrying after 4000ms: Unable to find an accessible element with the role "textbox" and name /title/i

Here are the accessible roles:

document:



## New Post

### Add a new blog

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cypress/e2e/blogFlow.spec.js

Blog Flow

✖ allows a user to create a new blog post

TEST BODY

1 visit /

2 findByRole link, {name: /new post/i}

3 - click

4 findByRole textbox, {name: /title/i}

(new url) http://localhost:3000/add

5 - type Ducimus commodi neque accusamus eos pe...

6 findByRole textbox, {name: /category/i}

7 - type ut

8 findByRole textbox, {name: /image link/i}

9 - type http://placeimg.com/640/480/nature

10 findByRole textbox, {name: /content/i}

11 - type Sint odit id molestiae quia est cumque. Nobis...

12 findByRole button, {name: /submit/i}

TestingLibraryElementError

Timed out retrying after 4000ms: Unable to find an accessible element with the role "button" and name /submit/i

Here are the accessible roles:

document:

Title

Ducimus commodi neque accusamus eos perspiciatis et necessitatibus vel omnis.

Category

ut

Image Link

http://placeimg.com/640/480/nature

Content

Sint odit id molestiae quia est cumque. Nobis ut repellat. Ex amet cum voluptatum placeat. Aut quasi doloribus. Odio sunt sint assum...

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cypress/e2e/blogFlow.spec.js

Blog Flow

✔ allows a user to create a new blog post

TEST BODY

1 visit /

2 findByRole link, {name: /new post/i}

3 - click

4 findByRole textbox, {name: /title/i}

(new url) http://localhost:3000/add

5 - type Quo aspernatur adipisci.

6 findByRole textbox, {name: /category/i}

7 - type atque

8 findByRole textbox, {name: /image link/i}

9 - type http://placeimg.com/640/480/business

10 findByRole textbox, {name: /content/i}

11 - type Cupiditate voluptas dignissimos ut velit tempor...

12 findByRole button, {name: /submit/i}

13 - click

14 findByRole link, {name: Quo aspernatur adipisci.}

15 - assert expected a.text-3xl.font-bold.hover:text-gray-700.pb-4 to be visible

(new url) http://localhost:3000/

Published on February 28, 2021

Sunt alias laudantium dolore. Aut totam eos iure aspernatur reiciendis sed rem quo. Aut voluptatem nihil. Et sint facilis. A voluptatem voluptate quia tenetur. Et est culpa id eligem...

CONTINUE READING→

ATQUE

Quo aspernatur adipisci.

Published on February 28, 2021

Cupiditate voluptas dignissimos ut velit tempore. Culpa consequatur non assumenda dolorum nobis quia rerum hic eius. Ab commodi voluptas sunt soluta eveniet ut dolores quo quo. Dolores ...

CONTINUE READING→

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```
cypress/e2e/blogFlow.spec.js
12 findByRole button, {name: /submit/i}
13 - click
14 findByRole link, {name: Aut magnam omnis facilis.}
15 - assert expected a.text-3xl.font-
    bold.hover:text-gray-700.pb-4 to be
    visible
    (new url) http://localhost:3000/
16 findByRole link, {name: Aut magnam omnis facilis.}
17 - click
18 findByText /delete post>/i
    (new url) http://localhost:3000/post/603c6dae9e2...

TestingLibraryElementError

Timed out retrying after 4000ms: Unable to find an
element with the text: /delete post>/i. This could be
because the text is broken up by multiple elements.
In this case, you can provide a function for your
text matcher to make your matcher more flexible.
```



< Tests 1 -- 13.24

cypress/e2e/blogFlow.spec.js

TEST BODY

1 visit /

2 findByRole link, {name: /new post/i}

3 - click

4 findByRole textbox, {name: /title/i}

(new url) http://localhost:3000/add

5 - type Temporibus incidunt tempora consectetur...

6 findByRole textbox, {name: /category/i}

7 - type possimus

8 findByRole textbox, {name: /image link/i}

9 - type http://placeimg.com/640/480/animals

10 findByRole textbox, {name: /content/i}

11 - type Quam ut consequat ut eum qui. Ratione fugit...

12 findByRole button, {name: /submit/i}

13 - click

14 findByRole link, {name: Temporibus incidunt tempo...

15 - assert expected a.text-3xl.font-  
bold.hover:text-gray-700.pb-4 to be  
visible

(new url) http://localhost:3000/

16 findByRole link, {name: Temporibus incidunt tempo...

17 - click

18 findByText /delete post>/i

(new url) http://localhost:3000/post/603c6ff89e2...

19 - click

20 findByRole link, {name: Temporibus incidunt tempo...

21 - assert expected findByRole(link) not to exist  
in the DOM

(new url) http://localhost:3000/

http://localhost:3000/ 100

New Post

MY BLOG

JAVASCRIPT

I love React

Published on February 25, 2021

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor  
incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud  
exercitation ullamco la...

CONTINUE READING→

GOOGLE

I love Angular

*Waiting for React to connect..*

## React Native

Open the [in-app developer menu](#) to connect.

## React DOM

Add one of the following (click to copy):

```
<script src="http://localhost:8097"></script>
```

```
<script src="http://192.168.1.5:8097"></script>
```

to the top of the page you want to debug,  
**before** importing React DOM.

The server is listening on the port 8097.



