Date: 27 - 07 - 2020

Morning Session: 9 am – 11.00 PM **By** ~ Sundeep Charan Ramkumar Today

Topics: React component testing

Types:

Unit:

Verify that individual, isolated parts work as expected.

Integration:

Verify that several units work together in harmony.

End to End:

A helper robot that behaves like a user to click around the app and verify that it functions correctly. Sometimes called "functional testing" or e2e.

https://jestjs.io/docs/en/tutorial-react

react-testing-library/cheatsheet

Cheatsheet

EDIT

Get the printable cheat sheet

A short guide to all the exported functions in React Testing Library

- render const {/* */} = render(Component) returns:
 - all the queries from DOM Testing Library, bound to the document so there is no need to pass a node as the first argument
 - o unmount function to unmount the component
 - o container reference to the DOM node where the component is mounted

```
import { render, fireEvent } from '@testing-library/react'

test('loads items eventually', async () => {
   const { getByText, findByText } = render(<Page />)

   // Click button
   fireEvent.click(getByText('Load'))

   // Wait for page to update with query text
   const items = await findByText(/Item #[0-9]: /)
   expect(items).toHaveLength(10)
})
```

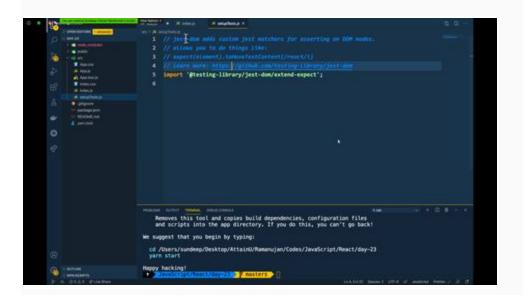
https://testing-library.com/docs/react-testing-library/cheatsheet

The React Testing Library is a very lightweight solution for testing React components. It provides light utility functions on top of react-dom and react-dom/test-utils, in a way that encourages better testing practices. Its primary guiding principle is:

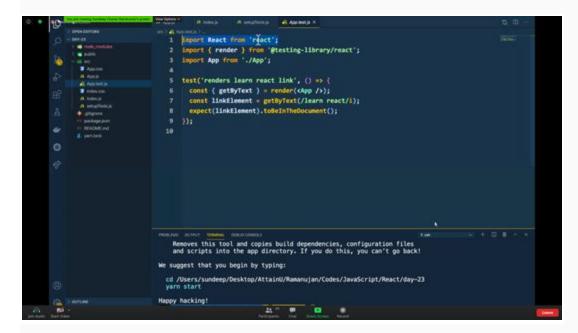
The more your tests resemble the way your software is used, the more confidence they can give you.

React has everything already setup for us.

```
# State | Pack |
```

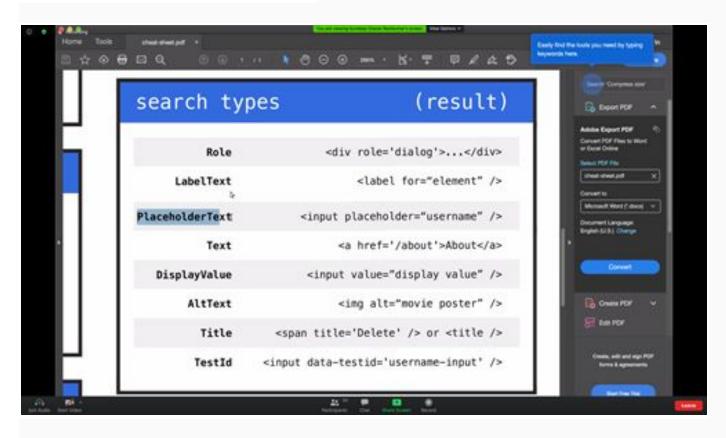


Boilerplate for Testing:



Node doesn't have DOM so yesterday we were not able to test DOM elements but React needs it, so we have that in React-Library

check for different DOM elements

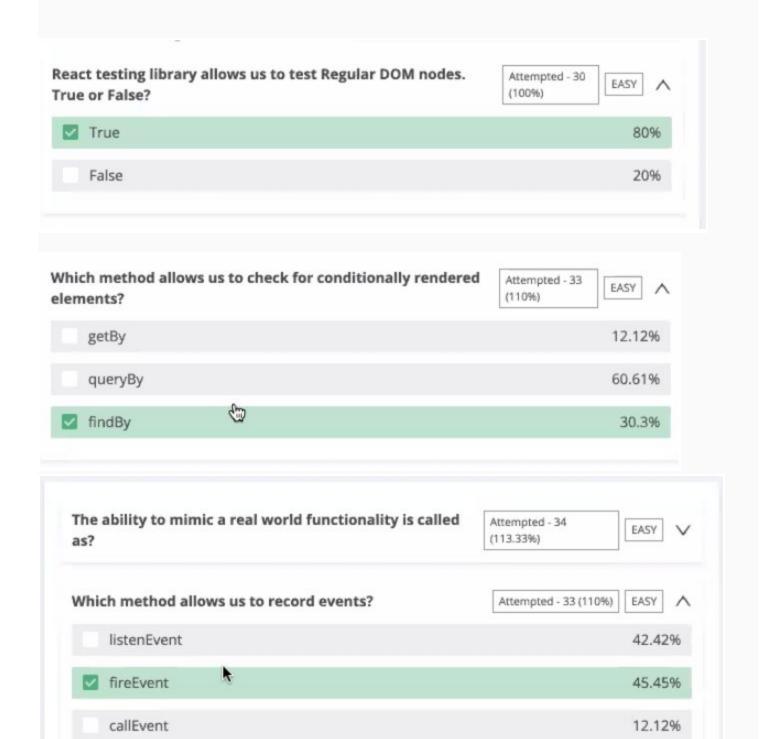


Testing: getBy queryBy and findby → selecting elements

getby: Gives Element or error

queryBy :Gives Element on null

findBy: Useful when you expect an element to pop up in due time





Resources:

https://medium.com/@alialhaddad/a-beginners-guide-to-jest-testing-858d10198032

https://github.com/puppeteer/puppeteer

https://www.youtube.com/watch?v=D9DdY2WmM-s