Date: 27 - 07 - 2020

Morning Session: 9 am – 11.00 PM

By ~ Sundeep Charan Ramkumar Today

Topics: Unit, Integration, E2E Testing

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://medium.com/@rossbulat/testing-in-react-with-jest-and-enzyme-an-introduction-99ce047dfcf8

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

Jargons:

- Test Runner → Mocha, Jasmine, Jest etc
- Assertion Library → Expected Value Checking → Chai, Enzyme, Jest
- Headless Browser → Puppeteer, Cypress, Sinon

We are going to focus on Jest

- Jest is a Terminal based
- Jest is a delightful JavaScript testing framework with a focus on simplicity.
- It can be installed with npm or Yarn. Jest fits into a broader category of utilities known as test runners.

Simplest Test demo:

Elegant Testing Demo example:

Jest Testing:

Documentation:

https://jestjs.io/

Installation:

```
In your package json file, create a new npm script which runs Jest:

{
    "scripts": {
        "start": "webpack-dev-server --config ./webpack.config.js --mode de    "test": "jest"
    },
}

In addition, we want to have more configuration in our tests written with Jest. Hence, pass an additional Jest configuration file to your Jest script:

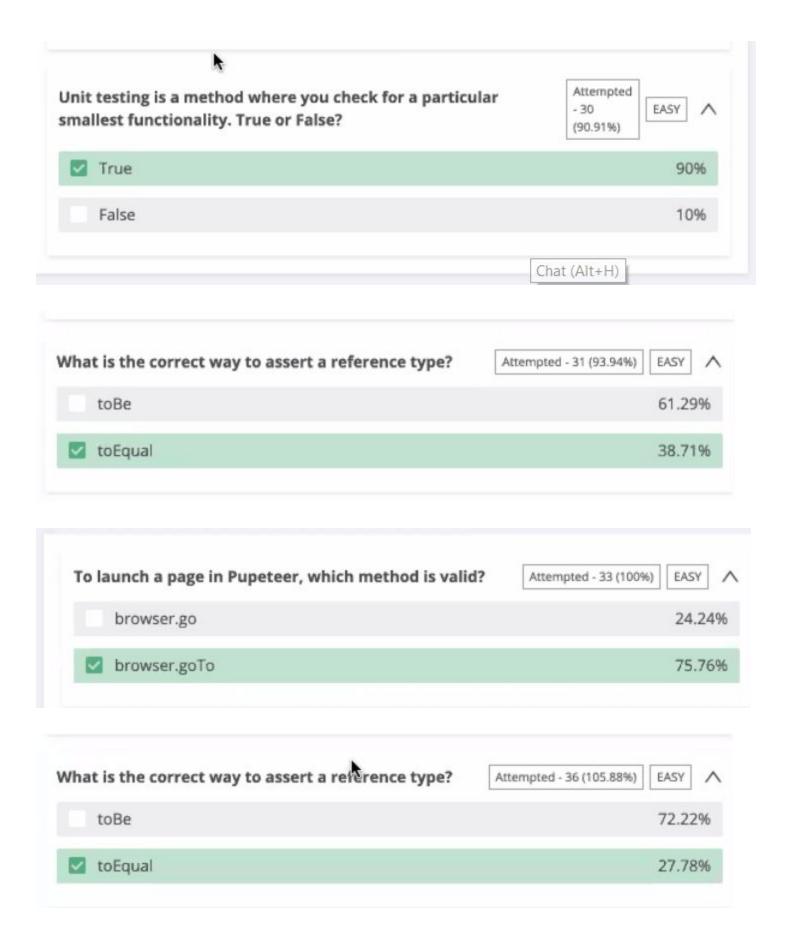
{
    "scripts": {
        "scripts": {
        "start": "webpack-dev-server --config ./webpack.config.js --mode de    "test": "jest --config ./jest.config.json"
    },
}
}
```

Trying out Jest:

• Implemented jest to a Todo app ((Parcel was used here))

```
# constraints #
```

https://github.com/puppeteer/puppeteer



Resources:

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