25. End-to-End Testing with Cypress

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Topics to cover

- [x] 1. End-to-End (A-Z) Testing
- [x] 2. Jest vs Cypress
- [x] 3. Install and Configure Cypress
- [x] 4. Design End-to-End Tests with Cypress

Jest vs Cypress

- Jest
 - Command line test runner
 - Based around testing assertions
 - Used for unit and integration testing (mostly)
- Cypress
 - Runs its own browser to execute the tests in
 - Performs operations and interacts with the site the way that a user would (eg. typing into input fields, clicking on buttons)
 - Used for integration and E2E testing (mostly)

Install and Configure Cypress

 Cypress can be installed locally to the project (as a dev dependency) or globally on your OS

```
npm install -g cypress
npm install --save-dev cypress
```

Use the open command to start Cypress running

```
# global installation
cypress open

# local installation
node_modules/.bin/cypress open
```

Add a script to package.json for a quick way to start Cypress

```
"cypress": "node_modules/.bin/cypress open"

npm run cypress
```

We use the cypress.json file in the main directory to configure Cypress

```
"baseUrl": "http://localhost:3000",
   "viewportWidth": 1280,
   "viewportHeight": 1200
}
```

- baseUrl tells Cypress where our application is hosted and what port it's listening on
- viewportWidth and viewportHeight specify the dimensions for Cypress' browser to use
- Feel free to change the width and height values if developing for a mobile-first site

Some Old Friends

- Cypress is built on top of Mocha and uses Chai assertions
- Cypress comes with jQuery installed (accessible with Cypress.\$();)

Useful Links

- Cypress Docs
- Cypress Best Practices (Official)

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