### **1.5Cypress Configuration**

You can configure Cypress settings in the cypress.json file. Here are some common configurations:

{

"baseUrl": "http://localhost:3000",

"viewportWidth": 1280,

"viewportHeight": 720,

"defaultCommandTimeout": 6000,

"pageLoadTimeout": 60000,

"env": {

"login\_url": "/login"

}

}

### **1.5a Writing Tests**

Cypress tests are written in JavaScript using Mocha and Chai syntax. Save your test files in the cypress/integration directory. Here's an example test:

// cypress/integration/sample\_test.js

describe('Sample Test', () => {

it('Visits the app and performs login', () => {

cy.visit('/')

cy.get('input[name="username"]').type('myusername')

cy.get('input[name="password"]').type('mypassword')

cy.get('button[type="submit"]').click()

cy.url().should('include', '/dashboard')

})

})

### **1.5b Running Tests**

You can run Cypress tests using the Test Runner or in headless mode via the CLI.

#### **Using the Test Runner**

To open the interactive Test Runner, use:

npx cypress open

The Test Runner provides a graphical interface where you can select and run your tests. It also allows you to debug tests interactively, viewing snapshots and console logs.

#### **Running Tests in Headless Mode**

For CI/CD environments or automated test execution, you can run tests in headless mode:

npx cypress run

This command will run all the tests in the cypress/integration folder and output the results to the terminal.

### **1.6 Executing Tests in Multiple Browsers**

Cypress supports running tests in multiple browsers, including Chrome, Firefox, and Edge. By default, Cypress runs tests in Electron, but you can specify other browsers.

#### **Supported Browsers**

As of now, Cypress supports the following browsers:

* Chrome
* Chromium
* Edge
* Firefox

You can check the installed browsers and their versions using:

npx cypress info

npx cypress run --browser chrome

npx cypress open --browser firefox

#### **Example: Running Tests in Multiple Browsers**

To run tests in both Chrome and Firefox, you can create a script in your package.json file:

"scripts": {

"test:chrome": "cypress run --browser chrome",

"test:firefox": "cypress run --browser firefox"

}

Then, you can execute the tests in each browser using:

npm run test:chrome

npm run test:firefox