

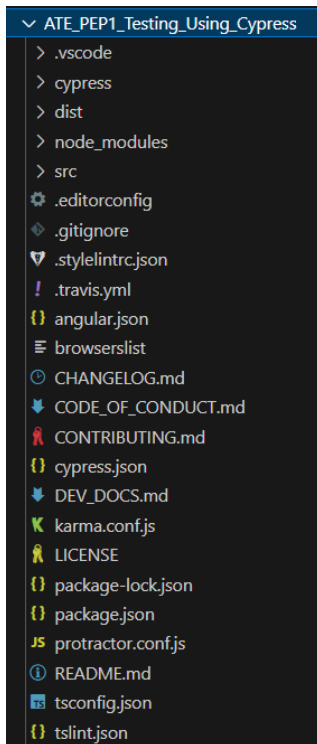
E2E Testing with Cypress

[Automate and Test Angular Web Application]

Tools Required: Nodejs v14.8.0, Cypress, and Visual Studio Code

Note: Since the lab comes with node v17 by default, the v14.8.0 has been used in the test.

Project Structure:



Set up Scenario:

- Use Visual Studio and clone the repository:
https://github.com/Simplilearn-Edu/ATE_PEP1_Testing_Using_Cypress.git
- Compile the code repository and run the code using npm
- The application will be available at localhost: 4200
- In the same folder, install Cypress and start the Cypress test runner
- Update the cypress.config.js file with details of specPattern and baseUrl
- Create a file with the name Test.spec.js and describe your first project

Steps that were taken:

1. Created a folder on the local machine.
2. Cloned the project repo from git over to the folder on the local machine.
3. Used the below commands to make it ready:
 - a. Command-1: nvm install 14.8.0 (to install Node v14.8.0 for the project).
 - b. Command-2: nvm use 14.8.0 (to use that version).
 - c. Command-3: npm install (to install the dependencies).
 - d. Command-4: npm install cypress --save-dev (to install Cypress in the project).
 - e. Command-5: npm start (to run the Angular app on the server, <http://localhost:4200>).
 - f. Command-6: npx cypress open (to open Cypress test runner).

Detailed Scenario 1:

- Create test cases to open the website on localhost: 4200
- In the same test, write code to click on forms and the forms' layout
- Go to the code of the application ngx-admin in vscode, and edit the attributes of Sign In button, add an attribute and value as data-cy="signInButton"
- The application will deploy automatically
- Inspect the button using the new attribute and write Cypress code for the Button element
- Under the horizontal form, inspect the email and type the text. Inspect the password, type the text, and click on the checkbox
- Use Cypress Assertion to validate if the form contains a button with the name Sign in

Detailed Scenario 2:

- Create a test case to open the website on localhost:4200. Under the form layout, write code to find all three radio buttons
- Inspect the first radio button, check if it is enabled or not, and then click on it
- Now, inspect radio button 2, check if it is enabled or not, and then click on it
- Validate that radio button 1 should not be selected. Use cypress assertion
- Validate whether radio button 3 is disabled or not. If radio button 3 is disabled, then use Cypress Assertion

Detailed Scenario 3:

- Create a test case to open the website on localhost: 4200
- Write test code to navigate to modals and overlays, then click on them
- Inspect the toaster and click on it in the application
- There are three checkboxes under this. Use the check method to select the checkboxes
- Again, inspect all three checkboxes and click on only the second checkbox using the click() method