Getting started with Cypress

A complete step by step guide
by **M Haseeb Jamil**

[LinkedIn Profile Link]

What is Cypress

Cypress is a JavaScript-based end-to-end testing tool designed for modern web test automation. This developer-friendly tool operates directly in the browser using a DOM manipulation technique and enables front-end developers and QA engineers to write automated web tests while eliminating pain points.

Prerequisite:

Install any javascript base IDE:

- We can install any JavaScript IDE to write our script e.g., VS Code ,Sublime ,Web Storm.

Here is the link of VS Code installation.

- **VS Code Installation link** for Mac, Windows, & Linux.

Install Node.js:

- **Node.js installation link** for Mac, Windows, & Linux.

Note:

Follow the given first **2 steps** only if you want to Install Cypress in the **Standalone Project** otherwise you can skip them and start from step **3** if you are integrating it into the **Front-end Project.**

Stepwise guide

Open Terminal and move to your workspace

1. Create Project Directory

```
$ mkdir CypressAutomation

$ cd CypressAutomation
```

2. Install package.json

Write command “npm init -y” to download package.json.

After installing type **yes** if shows in terminal **y/n**.

$ npm init -y

$ yes

3. Installing Cypress

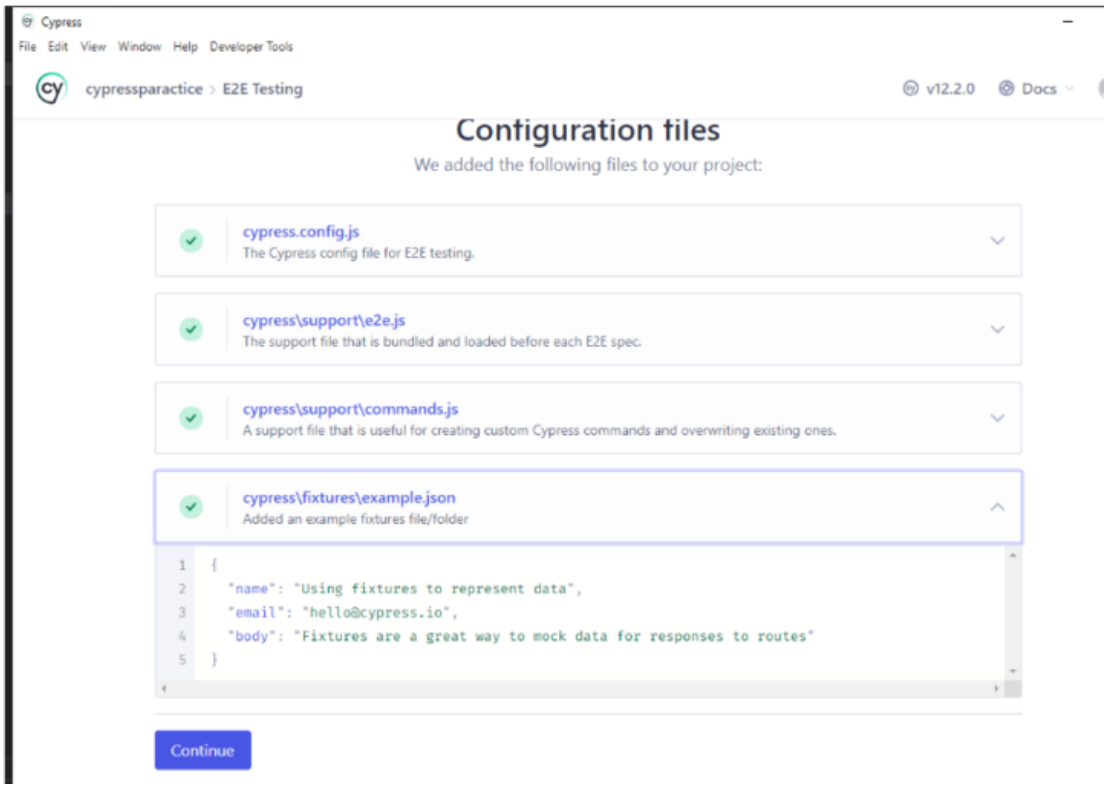
$ npm install cypress --save-dev

4. Opening Cypress

$ npx cypress open

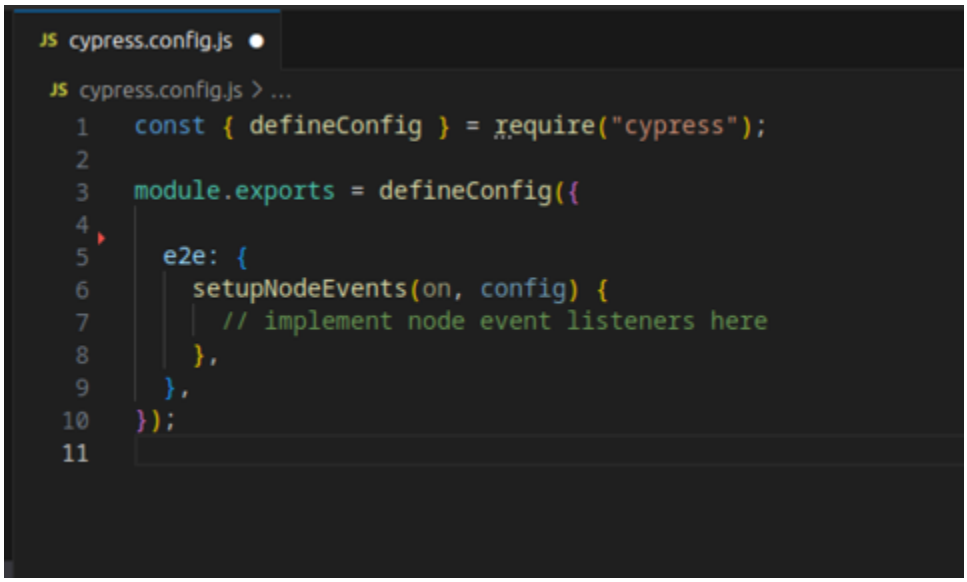
Step 3:

- Select all the configuration files if these are not selected by default and click on the **Continue** button.



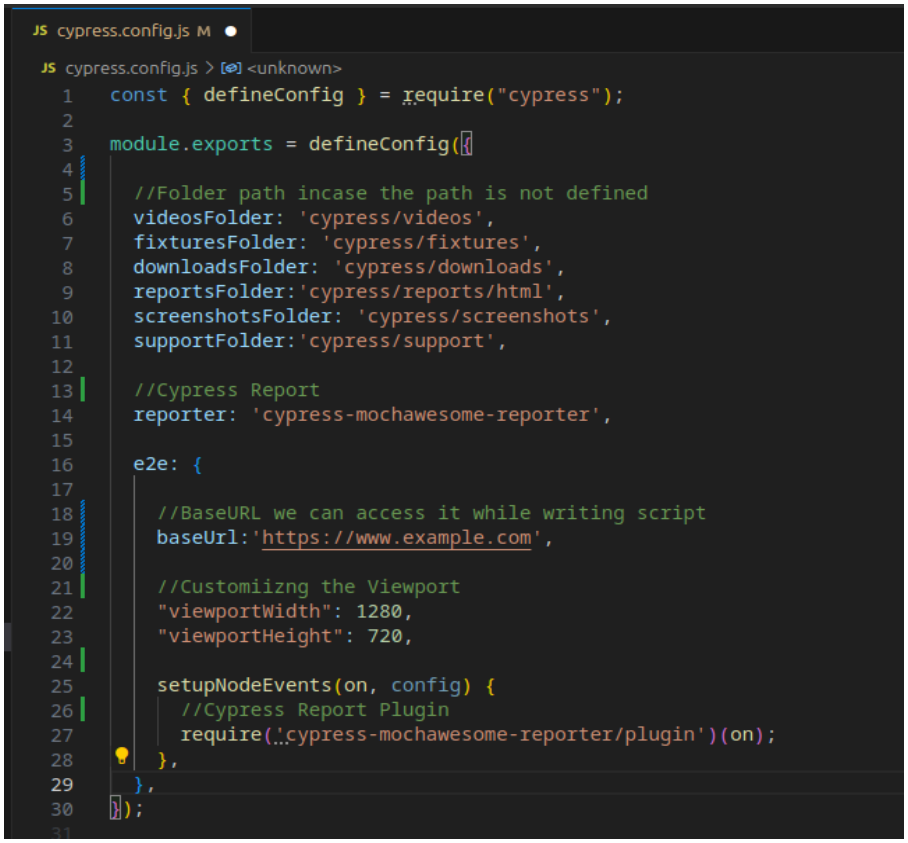
Step 4: Configuration File

- This is the Configuration file by default and you can customize it according to your requirements.



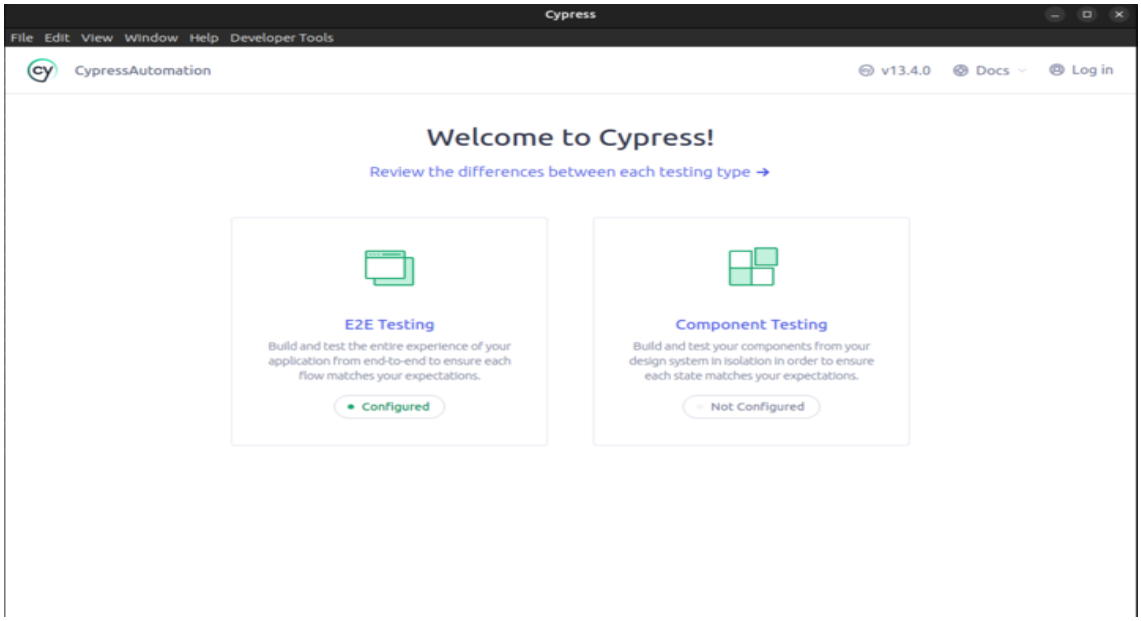
```
const { defineConfig } = require("cypress");

module.exports = defineConfig({

  e2e: {
    setupNodeEvents(on, config) {
      // implement node event listeners here
    },
  },
});
```

- Here is an example of **Customized Config File**



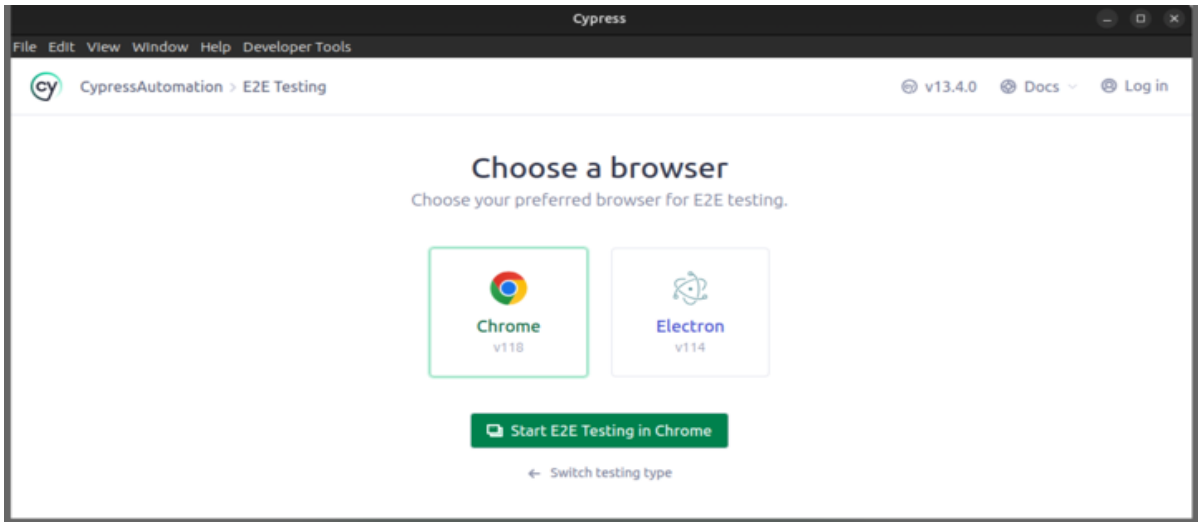
```
const { defineConfig } = require("cypress");

module.exports = defineConfig({

  //Folder path incase the path is not defined
  videosFolder: 'cypress/videos',
  fixturesFolder: 'cypress/fixtures',
  downloadsFolder: 'cypress/downloads',
  reportsFolder:'cypress/reports/html',
  screenshotsFolder: 'cypress/screenshots',
  supportFolder:'cypress/support',

  //Cypress Report
  reporter: 'cypress-mochawesome-reporter',

  e2e: {

    //BaseURL we can access it while writing script
    baseUrl:'https://www.example.com',

    //Customiizng the Viewport
    "viewportWidth": 1280,
    "viewportHeight": 720,

    setupNodeEvents(on, config) {
      //Cypress Report Plugin
      require('cypress-mochawesome-reporter/plugin')(on);
    },
  },
});
```

Step 5:
Click on **E2E Testing**



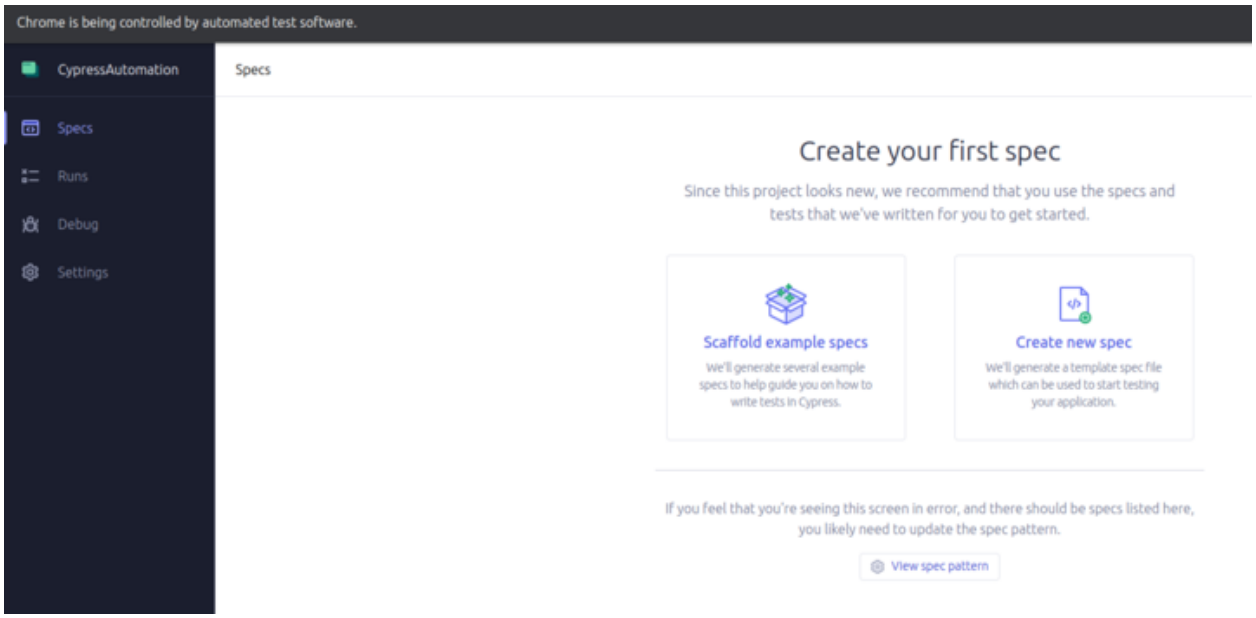
Step 6: Choose a browser:

- Select the desired browser and click on **Start E2E Testing**



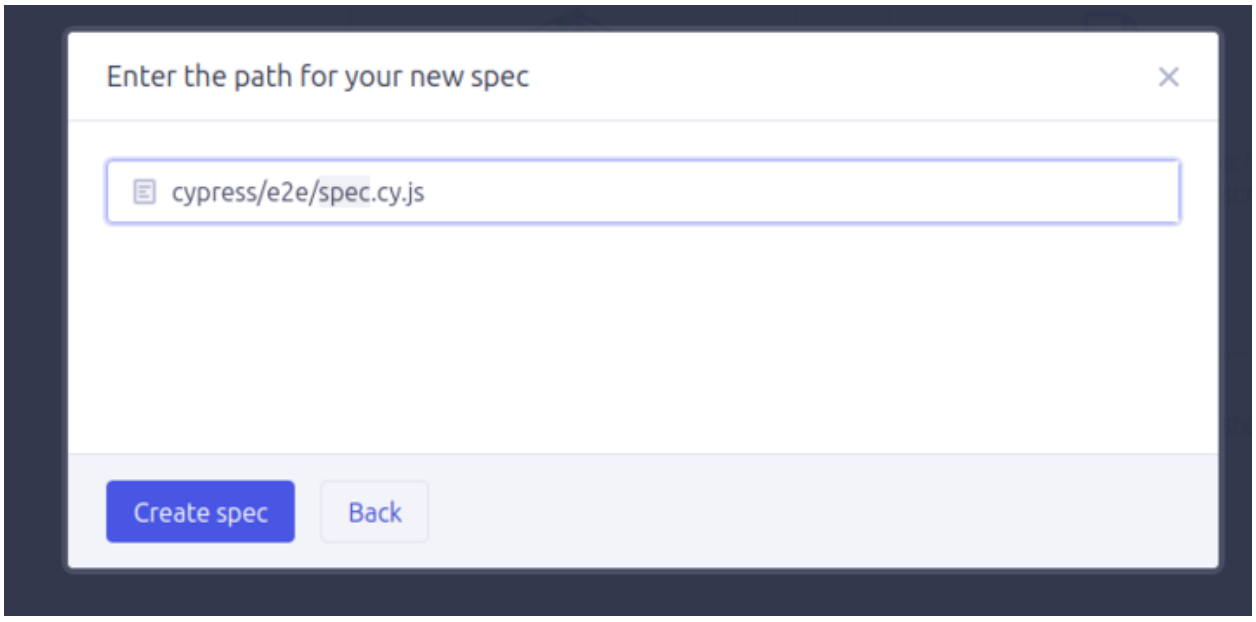
Step 7: Create First Spec:

- Click on the **Create new spec.**



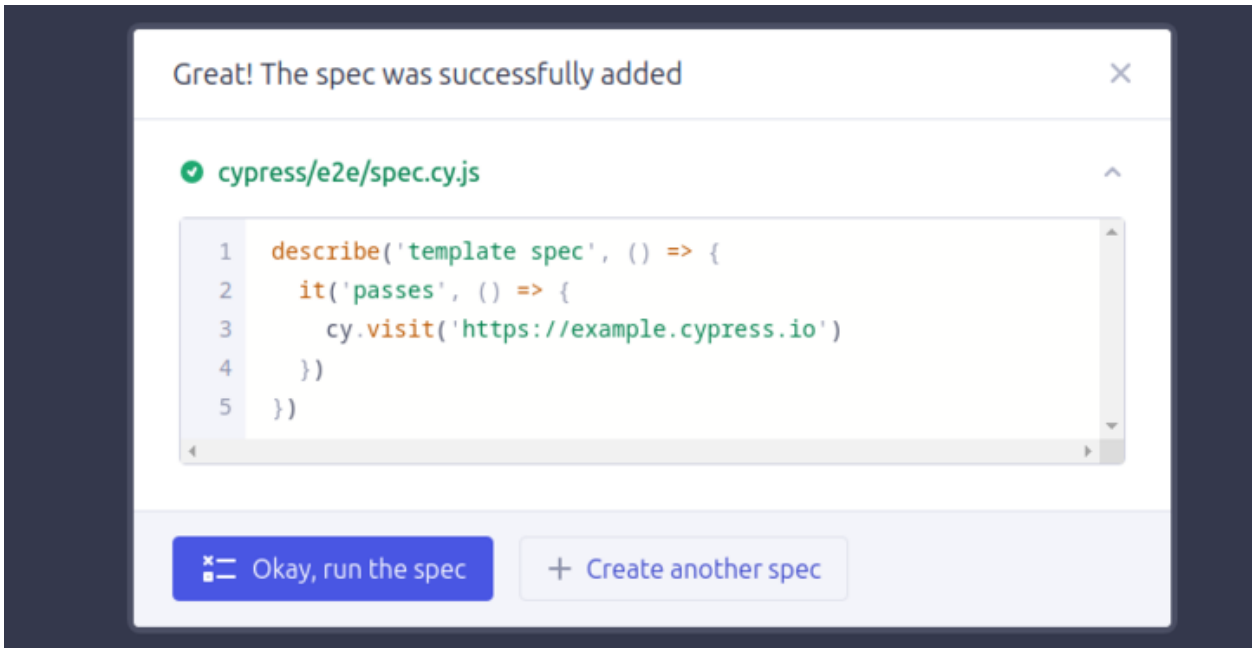
Step 8:

- Click on the **Create spec**



Step 9:

- Click on the **Okay, run the spec**



Congrats..! You have successfully run your first e2e Test.

- Now go to IDE Create New spec Files **cypress/e2e/testcasename.cy.js** and write test cases as many as you want