Automation testing tool selection and implementation

Tool we are integrating for the testing is cypress

1. Introduction to Cypress

- Cypress is the next generation automation testing tool
- Open source
- Built on node is
- javaScript is used to write the test cases

2. Advantages of Cypress

- Easy to install and use
- Fast growing community
- Deliver fast, reliable and consistent execution
- Provide debuggability
- Asynchronization
- Custom commands can be added to remove redundancy

3. Type of Test that Cypress support

- End to end test
- Integration test
- Unit test
- Anything that runs inside the browser

4. Browser in Cypress

By default it uses the browser called **electron** which is a chromium version for electron. You can pass the browser of your own choice by using the following command

npx cypress run --browser=chrome --headless

List of browsers that cypress support

- Chrome 64 and above.
- Edge 79 and above.
- Firefox 86 and above.

5. Install of Cypress

5.1. Prerequisite

- node js version should be install
- node js should be passed in the environment variable
- Visual studio code should be install

5.2. Installation of Cypress

- open the folder in the VS code
- Run the following command
 - o npm install cypress
- once the installation is finished, run the following command to run the cypress locally
 - o npx cypress open
- Remove all the existing test case example form the following folder
 - cypress-->integration
- Add the new file test.spec.js under the following folder
 - o cypress-->integration

6. Writing Test cases in the test.spec.js

· Adding the dummy test script in the code

 Custom commands in cypress are used to reduce the redundancy in the code. Adding the command in command.js that are required to be common in test script

Add common data in json file and by using fixture in test script call that data

Adding hooks for example beforeEach and afterEach. Hooks are added to specify what
actions need to perform before and after of each test case execution

7. Adding the configuration file

• Add the configuration in the cypress.josn

```
press.json > ...

"responeTimeout":60000,
"video":false,
"screenshotonrunfailure":false,
"watchforFilechange":true,
"baseUrl": https://opensource-demo.orangehrmlive.com/",
"reporter": mochawesome",
"reporterOptions":{
"code":false,
"overwrite":false,
"reportFilename": "Cypress-Report",
"autoOpen": "true",
"autoOpen": "true",
"charts": "true"

}
```

8. Executing the cypress from command line

Following command is used to execute the cypress test cases from command line

npx cypress run

9. Integrating Mocha report with

Execute the following command on terminal

• npm install mochawesome

Add the reference to Cypress.json