**Amazon Automation**

**Technologies:-**

* Cypress – E2e testing framework
* Mocha – Report generation
* Azure DevOps - CI Pipeline
* Docker – Containerization
* JMeter – Performance test
* Mailosaur – Test mail server
* ESLint - Code quality tool

**How to use the project:-**

* Clone the repo <https://github.com/DollyArora/AmazonAutomation>
* Run command **npm install** to download the dependencies
* If you are running the project in Linux/MAC OS, you need to make below change in package.json

"clean:reports": "rmdir /S /Q cypress\\reports && mkdir cypress\\reports

&& mkdir cypress\\reports\\mochareports",

* Since the application uses Email IDs for creating an account in Amazon, a list of sample IDs has been provided in [EmailIds.xlsx](https://github.com/DollyArora/AmazonAutomation/blob/master/EmailIds.xlsx).
  + This works with any address that ends with **.<SERVER\_ID>@mailosaur.io points to Mailosaur server**. **SERVER\_ID** is also mentioned in [EmailIds.xlsx](https://github.com/DollyArora/AmazonAutomation/blob/master/EmailIds.xlsx)
  + Use these sample email Ids and change the same in **cypress.json** to set it as environment variable. The same variables are used in the sign up process of the test case. Once the account is successfully registered with the mentioned email ID, the test case will start failing.
* Run command **npm run test** to start the cypress E2E test.

**Reports:-**

1. **E2E Reports:-**

* The project uses mochawesome reporting to generate reports. The same gets generated after the completion of E2E testing in **cypress/reports folder.**
* To view HTML report go to **cypress\reports\mochareports\report.html.**

1. **Performance Reports:-**
   * Performance testing of homepage is implemented using **JMeter.**  The same can be viewed in **/performance-test** folder of the project.
2. **Test Summary Report:-**
   * A brief test summary report of the project is created in **/manual-test** folder.
3. **Videos/Screenshots:-**
   * Cypress generates videos and screenshots of test cases. The same can be viewed in **cypress/screenshots and cypress/videos folder.**

**Points to remember:-**

* Sometimes, amazon displays **captcha** in the sign up/ sign process. This happens when amazon detects unusual traffic from same IPs/Host. This scenario has not been handled.
* The signup process requires **OTP** sent to the registered Email ID. The project uses Mailosaur test server to check for the OTP in the verification email and hence verifies the account to proceed further with the test case.
* There is an implicit wait added in one acceptance criteria. The reason for the same is, amazon has added multiple event listeners to click event in hamburger menu. While page loads, when the hamburger menu is clicked, the listener on document is called rather than the one on the menu button. When the page is fully loaded after an implicit wait, the correct event listener is called.
* Pipeline is created using the **azure-pipelines.yml** file in the project.