**Amazon Web Page**

* **Overview**: It is a framework designed using Python as scripting language and Pytest as testing framework to automated tests for key functionalities of the Amazon.com website, using the Page Object Model (POM) approach. This assignment emphasizes efficiency, coverage, and accuracy in testing, with a specific focus on employing POM for better maintainability and readability of test scripts.
* **Architecture**: This framework contains different files and folders like test scripts, page objects, utilities, configuration files.
* **Setup Instructions**: You will need automation tools to run all the test in this framework and necessary software (e.g., Selenium WebDriver, browser drivers), configuration of environment variables.
* **Usage Guide**: Before run all the test mentioned in this framework you should have to install the libraries mentioned below.

•Selenium: Selenium Libraries

• pytest: Python framework

• Pytest-html: PyTest HTML Reports.

• Pytest-xdist: Run Tests Parallel

• openpyxl: Ms Excel Support

• allure-pytest: to generate allure reports.

• Used Report folder for detailed reporting.

• For run multiple tests parallelly use “Run.bat” file which will run test on chrome browser. In case you want to run test using another browser just edit this file and replace Chrome with the browser you want to use.

• **Page Objects**: I’ve created page classes for all common components, not for particular pages and implemented it in the test scripts.

* **Configuration Management**: Explain how configuration settings are managed within the framework, including options for configuring test environments and handling environment-specific settings.
* **Logging**: Used logging and debugging features within the framework to aid in troubleshooting test failures.
* **Best Practices**: For run multiple tests parallelly use “Run.bat” file which will run test on chrome browser.

* **Contributing Guidelines**: The framework is platform independent and you can run the test on different browsers like Google Chrome, Safari, Firefox, Edge. Make sure you have valid drivers installed for different browsers.
* **Troubleshooting**: To handle the common issues, you may face while automating the scripts such as ‘NoSuchElementException’ please restart the browser and again run the test scripts.