Technocrats Institute of Technology Computer Science & Engineering, Bhopal

Project Title: Automated Testing for Amazon

Submit By- Submit To:

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Objective: The primary goal of this project was to implement automated testing for Amazon to ensure functionality, usability, and performance are meeting specified requirements.

Tools Used:

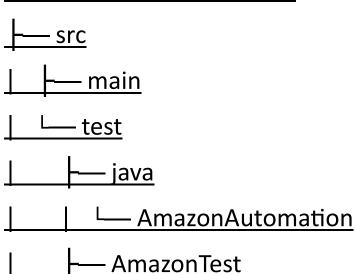
- IntelliJ IDEA: Integrated Development Environment (IDE) for Java development.
- TestNG: Testing framework that supports data-driven testing, parallel execution, and comprehensive reporting.
- Selenium: Web automation tool for testing web applications across different browsers.
- JAVA: used JDK 21 as an supporting language
- Browser: Google Chrome 8
- Hardware: Windows OS with i5 6 thread processor

Dependencies:

 Added necessary dependencies for TestNG and Selenium in the pom.xml file (for Maven projects).

Folder Structure:

AmazonAutomationTesting



- Test Cases: Developed test cases based on the functional requirements of Amazon.
- Page Object Model (POM): Implemented POM to create a structure that encapsulates the details of the UI.

TestNG Annotations Used:

- <u>@BeforeClass: Set up browser and environment</u> before any tests in the class are run.
- @Test: Define the actual test methods.
- @AfterClass: Clean up after tests have finished.

Execution Strategy: Executed tests in a sequential manner or configured for parallel execution based on the requirements.

Running Tests: Tests were executed through the TestNG runner in IntelliJ IDEA, which provides detailed test reports.

```
@Test public void testLogin()

{
LoginPage loginPage = new LoginPage(driver);
loginPage.enterUsername("testuser");
loginPage.enterPassword("password");
loginPage.clickLogin();
Assert.assertTrue(HomePage.isLoggedIn(), "Login failed!");
}
```

Results

- <u>Test Reports</u>: Generated comprehensive HTML reports using TestNG that detail passed, failed, and skipped tests.
- Functionalities: Verify Searching Products, Checking Price, Opening Product, Verifying Product Title.
- Issues Encountered: Documented any issues during test execution and the steps taken to resolve them.

6. Conclusion

- Summary of Findings: The automated tests confirmed that Amazon met the required functionalities and performance criteria.
- <u>Future Work</u>: Suggestion to add more test cases, including negative test scenarios and performance testing.