

Technocrats Institute of Technology
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Project Title:

Automated Testing for Amazon

Submit By-

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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

|— src

| |— main

| |— test

| |— java

| |— AmazonAutomation

| |— AmazonTest

? **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:

- @BeforeClass: Set up browser and environment 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

- **Test Reports:** 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.
- **Future Work:** Suggestion to add more test cases, including negative test scenarios and performance testing.