Capstone Project – Writeup

Step 1: Set Up Project

1. Create a new Java project in Eclipse IDE.
2. Initialize a Git repository for version control and push it to GitHub.
3. Create a folder structure to organize different testing components.

Step 2: End-User Black Box Testing using Selenium WebDriver with TestNG

1. Create a TestNG class for each page: LoginPageTest, RegistrationPageTest, AddToCartPageTest, PlaceOrderPageTest (For example).
2. Use Selenium WebDriver to interact with each page's elements (buttons, forms, etc.).
3. Write TestNG test methods to cover various scenarios (positive, negative, boundary).
4. Use assertions to verify expected outcomes (e.g., successful login, cart contents).
5. Run the tests using TestNG and review test results.

Step 3: Load Testing using JMeter

1. Download and install JMeter.
2. Create JMeter scripts: HomepageLoadTest.jmx and ProductDetailLoadTest.jmx (For example)
3. Configure thread groups, HTTP requests, and response assertions.
4. Set up timers and ramp-up periods to simulate user load.
5. Run the JMeter scripts to perform load testing on the homepage and product detail page.
6. Analyze the results for response times, throughput, and errors.

Step 4: API Testing with Postman and Rest Assured

1. Create Postman collections for the API endpoints: SportyShoesAPI.postman_collection.json. (For example).

2. Use REST-assured library in Java to replicate API tests programmatically.

3. Write Java classes for each API endpoint: GetShoesAPITest, GetUsersAPITest, AddShoeAPITest. (For example).

4. Perform API requests using REST-assured and validate responses.

5. Run the API tests using TestNG and review results.

Step 5: Documentation and Conclusion

Github link - **https://github.com/Shalini-Raquel/Capstone_TrainingProjectFinal.git**