Web Application Automation and Testing

Writeup

1. Create a My SQL database with a tables user with attributes, first_name, last_name, email and password and item with attributes, id, name, price and image_url.

2. Provide values to the attributes of the items to be displayed.

3. Create User POJO, Item POJO Util and DAO classes in Eclipse.

4. Create SQL queries and use JDBC.

5. Create pages for the front end using jsp

6. Use servlets to handle user login, registration, search and cart operations.

7. Provide checks to avoid duplication of email during registration and incorrect credentials during login.

8. Add the required jars to the project for selenium and servlets.

9. Install TestNG in eclipse and add it to the build path.

10. Create TestNG classes to check registration, login, search and cart operations.

11. Prioritize the test methods in each class.

12. Use commons-io jar and use TakesScreenshot create a method to capture required screenshots.

13. Provide the path to store the images, ChromeDriver path and the URL of the application from parameter tags in testNG.xml

14. Order the classes – Registration, Login, Search and Cart.

15. Provide required implicit timeouts for the processes to occur.

16. Use commons-io jar and use TakesScreenshot create a method to capture required screenshots.

17. Provide the path for the screenshots to be saved.

18. Capture home page, incomplete and complete registrations, incomplete and complete logins, user dashboard , cart.

19. After all the automation operations, close the web browser

20. Review the testNG reports to view the results