Project Name: Online Retail E-Commerce Platform

Domain: E-Commerce

Company: Retail Inc.

Platform: Web

Project Description:

Retail Inc. is launching a new e-commerce platform that allows customers to purchase products online.

The platform includes a web application and mobile apps (iOS and Android).

The platform supports various product categories like electronics, fashion, home appliances, and groceries. It offers features such as product browsing,

searching, filtering, cart management, checkout process, payment gateway integration, and order tracking.

Challenges Faced:

Handling complex payment scenarios.

Ensuring cross-browser and cross-device compatibility.

Dealing with frequent changes in requirements.

Managing large test data for performance testing.

Tools Used:

Test Management: JIRA.

Bug Tracking: JIRA

Automation (if applicable): Selenium with java.

Performance Testing: JMeter

Version Control: Git

Communication: Email

Evaluate the software applications, product code & systems according to specification. Collaborate with developers for creating and executing Test Cases and perform Manual Testing.

Record and document results and compare to expected results

Document anomalies and report bugs & errors to the development team

Provide application instructions for users and create meaningful error handling procedures for the code

Ensure data integrity standards and perform reviews, walkthroughs, or inspections

Conduct post-release/ post-implementation testing

Work with cross-functional teams to ensure quality throughout the software development life cycle

**~Automation Entitlement:**

Responsible for developing and executing comprehensive suites of automation test plans and test cases, maintaining and adding to existing framework.

Continued evaluation of test cases for inclusion in regression, automation for newly

Integrated features, and development of toolsets to augment QA and Development testing

Able to work closely with QA Technical Manager, Business Analyst, Software Developers and other QA engineers in scrum teams to deliver the highest quality products in a timely and cost-effective manner

* Utilize **SQL** queries to test database impacts and ensure data integrity.
* Good knowledge about **CI/CD** & version controls and well versed with GIT.
* Good verbal and written communication skills to effectively document and report bugs.
* Log and track defects using the designated tracking system and tools
* Participate in the development of test project goals, scope, estimates and plans
* Work with Development, Product Management and QA Test leadership to prioritize software defects and determine associated root cause/corrective actions .
* Identify risks and dependencies of the product and subsystems, prioritize the effort, and deliver the project on time and according to milestones, specifications and defined quality standards
* Engage in test result analysis and test report creation
* Help develop cooperative relationships between the test team and individuals/groups that interface with the test team.

**Technologies**

* **Java**: The primary language for implementing tests.
* **TestNG**: Framework for organizing and running tests.
* **RestAssured**: Library for testing RESTful APIs.
* **Maven**: Build automation tool for dependency management and project setup.
* **Product APIs**
  + Verify that GET /products returns all products.
  + Test POST /products for creating new products (admin only).
  + Validate product details with GET /products/{id}.
* **User APIs**
  + Verify user creation with POST /users.
  + Authenticate user login with POST /users/login.
  + Check GET /users/{id} for user profile retrieval.
* **Order APIs**
  + Test creating a new order with POST /orders.
  + Verify order retrieval with GET /orders/{id}.

This setup should give you a solid foundation for testing the REST APIs of an e-commerce platform using TestNG and RestAssured.