TEST PLAN FOR E-COMMERCE PLATFORM

Overview

The purpose of this test plan document is to define the scope of the project, test strategy, test schedule, resource requirements and test deliverables for saucedemo.com web application to ensure that the application meets its functional and non-functional requirements before deployment.

Test scope:

The scope of the project includes testing the following user story of saucedemo.com web application.

- **User Authentication**: Login with valid/invalid credentials
- **Product Listing**: Displaying products, sorting options
- **Shopping Cart**: Adding/removing items, updating quantity
- **Checkout & Payment**: Checkout flow, order summary validation
- **User Experience**: Responsiveness, ease of navigation

Test role:

- **Manual Testing**
- **Mobile App Testing**
- **API Testing**
- **Security Testing**
- **Performance testing**
- **Automation Testing**

Number	User role	Tester	Expected time(h)	Actual time(h)
1	Manual Testing - API Testing	- Adham	23	
2	Mobile App Testing	- Abd El Rahman Ahmad	12	
3	Security Testing	- Kerollos Malak	10	
4	Performance testing	- Nouran wailed	10	
5	Automation Testing	- Kerollos Ashraf	21	

Test levels

- Component test
- Integration test
- System test
- Acceptance test

Test types

- Functional test
- Ui test
- Confirmation test after fixed bugs
- Regression test after fixed bugs

Exit criteria

- Testing is finished and there are no functional bugs
- All planned test cases have been executed.
- A certain percentage of test cases have passed (e.g., 95% pass rate).
- No critical or high-severity defects remain unresolved.
- All remaining bugs have low severity

Test environments

- Operating system: windows 11
- Browser: Google Chrome. the last available version
- Network: Wi-Fi

Identify Risks & Mitigation:

Risk	Mitigation Strategy
Personal risks	fill 70% of the time of each tester
Environment risks	Ensure early setup and maintenance
Project risks	Prioritize high-risk functionalities

Set KPI:

- **For manual testing:**
  1. Test suites
  2. Testcase creation
  3. Bug report
  4. Test coverage

- **For mobile app testing:**
  1. Test suites
  2. Testcase creation
  3. Bug report
  4. Test coverage

- **For API testing:**
  1. Test suites
  2. Testcase creation
  3. Bug report
  4. Test coverage

- **For Automation testing:**
  1. Test suites
  2. Design automation test script
  3. Bug report
  4. Test coverage

Testing Tools

- **Manual Testing**: Excel for test case management

- **Automation Testing**: Selenium

- **API Testing**: Postman

- **Performance Testing**: JMeter

- **Security Testing**: OWASP ZAP, Burp Suite

Check list:

☐**User Authentication**:

- ☐ Test suites
- ☐ Testcase creation
- ☐ Bug report
- ☐ Test coverage

☐ **Product Listing**:

- ☐ Test suites
- ☐ Testcase creation
- ☐ Bug report
- ☐ Test coverage

☐ **Shopping Cart**:

- ☐ Test suites
- ☐ Testcase creation
- ☐ Bug report
- ☐ Test coverage

☐ **Checkout & Payment**:

- ☐ Test suites
- ☐ Testcase creation
- ☐ Bug report
- ☐ Test coverage

☐ **User Experience**:

- ☐ Test suites
- ☐ Testcase creation
- ☐ Bug report
- ☐ Test coverage