

Online Shopping Portal Project

QE Batch – Group 2

Test Plan

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1. Introduction

The software application allows online shopping customers to accumulate a list of items for purchase, placing items in the shopping cart or add to cart. It calculates a total for the order, including shipping and handling charges and the associated taxes, as applicable.

The Test Plan is designed to identify the scope, approach, features, types of testing to performed, the resources and schedule of all testing activities to complete the testing of the online shopping portal.

1.1. Objectives

The objective is to verify the functionalities of Online Shopping Portal (OSP). The features here we consider are user registration, user login system, change password, forgot password, profile management system, shopping cart, wishlist, order history, track order, payment pending order, proceed to checkout, add to cart. And the performance testing also focusses on eight workflows which are login, registration, search product, track order, order history, change quantity, proceed to checkout, add to cart pages in the OSP web application.

1.2. Team Members

Table 1: Team Members

Resource Name	Role
Dhimanshi Jayasena	Team Leader
Bhagya Peiris	Team Member
Thihari Wijesinghe	Team Member
Vindya Hasanthi	Team Member

2. Scope

2.1. In Scope

All the identified modules and tested features are listed.

Table 2: Features to be tested

Feature	Description
User Registration	A new user can sign up to the application
User Login	A registered user can login to the application
Change Password	A registered user can update with new the password
Forgot Password	A registered user can change the password
Profile Management System	A registered user can edit their profile details
Shopping Cart	A registered user can add items to the shopping cart
Wishlist	A registered user can add items to the wishlist
Order History	A registered user can view the order details
Track Order	A registered user can track their orders
Payment Pending Order	A registered user can check their payment pending orders
Proceed to Checkout	A registered user can proceed the items to checkout
Add to Cart	A registered user can add items to the cart

2.2. Out of Scope

All the testing scenarios mentioned in the scope document were covered. Some testing methods such as security testing were not covered.

3. Test Methodology

Test Methodologies include functional and performance testing to validate the AUT.

3.1. Overview

The main objective of the Online Shopping Portal project is to test functional & performance testing. User registration & login, profile management, add to cart, proceed to checkout, track order, payment pending order and order history are the main scope of the project. Scrum methodology will be followed as the test methodology of the project. POM + DDT and GUI automation approaches will be used as the project framework.

3.2. Entry Criteria

- Testing environment should be established
- Adequate test data is available
- Test plan are completed
- Complete and review Test Cases/Test Scripts
- Responsibilities should be defined
- Access right for testers should be established

3.3. Exit Criteria

Functional Testing:

- 80% in scope should be automated
- All automated test cases are executed and result documented
- No critical defects outstanding
- 90% test cases should be passed

Performance Testing:

- Identify 7 workflows
- Think Time, Listeners, Assertions, Logic Controllers, Config elements should be included
- Test reports should be generated

4. Resource & Environment Needs

4.1. Testing Tools

Following tools will be used for the testing purposes.

1. Selenium webdriver
2. IntelliJ IDEA
3. JMeter
4. Word Press

4.2. Testing Environment

The minimum hardware and software requirements that will be used to test the application as follows,

- | | |
|---------------------|--|
| 1. Server | – XAMPP Version: 7.3.28 |
| 2. Operating System | – Windows 10 |
| 3. System Type | – 64-bit Operating System, x64-based processor |
| 4. RAM | – 8 GB |
| 5. Network | – LAN |
| 6. Browsers | – Latest versions of Chrome, Firefox, MS Edge |

4.3. Human Resources

4.3.1. GUI Automation

Table 3: GUI Automation Tasks

Team Member	Tasks
Dhimanshi Jayasena	<ul style="list-style-type: none"> • My profile • Change password • Shipping/billing address • Order History • Payment pending Order
Bhagya Peiris	<ul style="list-style-type: none"> • My cart • Add to cart • Update cart • Update shipping address • Proceed to checkout • Choose payment method • Track
Thihari Wijesinghe	<ul style="list-style-type: none"> • User Registration • User login system • Forgot password • Log out • Track order
Vindya Hasanthi	<ul style="list-style-type: none"> • Main categories • View items • Adding to wish lists • Add to cart • Search • Wishlist • Check availability

4.3.2. Performance Testing

Table 4: Performance Testing Tasks

Team Member	Tasks
Dhimanshi Jayasena Bhagya Peiris Thihari Wijesinghe Vindya Hasanthi	<ul style="list-style-type: none"> • All team members will collaborate

5. Assumptions / Risks

5.1. Risks

The following risks have been identified and the appropriate action identified to mitigate the impact on the project.

Table 5: Risks

#	Risk	Impact	Mitigation Plan
1	The project has only 2 weeks to complete the project	High	The tasks will be divided among every team member.
2	No prior experience in performance testing	High	Plan to go through the recordings of the training sessions and refer online tutorials.
3	Connectivity issue for performance testing, so the results may vary	Medium	Everyone gets together and compare the test results of the reports

6. Milestones & Deliverables

6.1. Test Schedule

Table 6: Test schedule

Task Name	Start	Finish	Comments
Test Planning	2021/05/21	2021/05/23	
Project Environment setup	2021/05/23	2021/05/25	
Test Case Design	2021/05/25	2021/05/27	
Develop Test Automation Suite	2021/05/27	2021/06/01	
Performance testing	2021/06/01	2021/06/03	
Test Reports and Results Presentation	2021/06/03	2021/06/04	

6.2. Deliverables

Table 7: Deliverables

Deliverable	Date / Milestone
Test Plan	2021/05/23
Test Cases Document	2021/05/27
Automation Test Suite	2021/06/01
Performance Test Scripts	2021/06/03
Test Reports	2021/06/04

7. Terms/Acronyms

Table 8: Acronyms

Acronym	Meaning
DDT	Data Driven Testing
HTTP	Hypertext Transfer Protocol
AUT	Application Under Test
POM	Page Object Model
GUI	Graphical User Interface