TEST PLAN

1. Objective:

The test plan is for the E commerce Application Open Cart 1.0 . The objective of testing is to provide quality Product to the customer which met all the client requirements and free of defects.This document saves as high level of test planning which contains scope of the project test strategy,test schedule resource requirements and test deliverables.

2. Test Items:

E-Commerce Application: Open Cart, version 1.0

3. Scope:

Features to be tested:

- Register
- Login and Logout
- Forgot Password
- Search
- Product Compare
- Product display page
- Add to Cart
- WishList
- Shopping Cart
- Currencies
- Home page
- Checkout page
- My Account page
- Menu Options
- Category options
- Footer Options

As per our understanding we believe above functional areas need to be tested

Features not to be tested:

- Payment Gateway will not be tested
- Automation testing is out of scope

4. Test Enviroment:

- Operating System: Windows 10
- Browser: Google Chrome, firefox, microsoft Edge

5. Tools:

Word and Excel documents

6. Test Schedule:

- Test Planning : 09/03/2025 - 15/03/2025
- Test Case Development **:** 15/03/2025 to 20/03/2025
- Test Execution : 20/03/2025 to 23/03/2025
- Test Closure: 23/03/2025 to 26/03/2025

7. Test Responsibilities:

Name	**Role**	**Responsibilities**
Mr. XYZ	Test Manager	✓ Escalations
Ms.ABC	Test Lead	✓ Create the test plan and get the client signoffs ✓ Interact with the application, create and execute test cases ✓ Report defects ✓ Coordinate the test execution. Verify validity of defects being reported ✓ Submit the daily issues updates and summary defect reports to the client ✓ Attend any meeting with client
Mr CFG	Senior test Engineer	✓ Interact with the application ✓ Create and Execute test cases ✓ Report defects
Ms. Bhavana	Test Engineer	✓ Interact with the application ✓ Execute test cases ✓ Report defects
Ms. XYZ	Developer	✓ Bug fixing and provide support to the testing
	Server Admin	✓ Responsible for maintaining the test environment

8. Test Approach/Strategy:

Manual testing will be used to test all the features or functionalities of the Open cart application. As part of functional testing following approaches will be followed.

Step 1- Creation of Test Scenarios and Test Cases for the different features in scope

- We will apply several Test design techniques while creating Test Cases
  - ➢ Equivalence Class Partition
  - ➢ Boundary Value Analysis

- Decision table testing
    - State Transition testing
    - Use Case testing

- We also use our expertise in creating test cases by applying the below:
    - Error Guessing
    - Exploratory Testing

- We prioritize the test cases

Step 2- Our testing process, when we get application for testing:

- Firstly, we will perform Smoke Testing to check whether different and important functionalities of the application are working
- We reject the build, if Smoke Testing fails and will wait for stable build before performing in depth testing of application functionalities
- Once we receives a stable build which passes Smoke testing. We perform in depth testing using test cases created.
- Multiple testing resources will be testing the same application on multiple environments simultaneously
- We then report the bugs in bug template and send the template to dev management the defects found on that day in a status at the end of the day by email.
- As part of Testing, we will perform the below types of testing:
    - Smoke and Sanity testing
    - Regression testing and Retesting
    - Usability Testing, Functionality and UI testing
- We repeat the Test Cycles until we get quality product

Step 3: We will follow below best Practices to make our testing better

- Context driven testing: We will perform testing according to the context of the given application
- Shift Left Testing: We will start testing at the beginning stages of development itself , instead of waiting for the stable build
- Exploratory Testing: Using our expertise we will perform exploratory testing apart from normal execution of test cases

9. Defect Reporting Procedure:

During the test Execution-

- Any deviation from the expected result will be noted if it is not reported as defect . it would be reported either as issue or observation or post as question
- Any usability issues will be reported
- After discovery of the defect, it will be retested to verify reproducibility of the defect
- Screenshot with steps to reproduce defects are documented
- Everyday, at the end of test execution, defects encountered will be sent along the observations

Note:

- Defects will be documented in the Excel
- Test Scenarios and Test Cases will be documented in the Excel

10. Entry and Exit Criteria of STLC Phases:

STLC Phases	Entry	Exit
Requirement Analysis	Once the testing receives requirement analysis document or details of the project	List of requirements are explored and understood by testing team All doubts are cleared
Test Planning	Testable requirements derived from the given requirement document or Project details All doubts are cleared	Test Plan document sign off by the Client
Test Design	Test Plan document sign off by the Client	Test Scenarios and Test Cases Documents are Signed off by the Client
Test Execution	Test Scenarios and Test Cases Documents are Signed off by the Client Application is ready for testing	Test Case Report and Defect Report are ready
Test Closure	Test Case Report and Defect Report are ready	Test Closure Report

11. Test Completion Criteria:

- All the identified defects must be fixed and verified
- All the test cases must be executed and Passed
- All the test deliverables must be completed and submitted

12. Risks and Mitigations:

The following are the list of risks possible and the ways to mitigate them :

➢ **Risk**: Non-Availability of Resource
Mitigation: Plan for backup Resource

➢ **Risk:** Build URL is not Working
Mitigation: Resources will work on other tasks

13. Approvals:

Following documents need client's approval

- Test plan
- Test Scenarios
- Test Cases
- Reports

Testing will only continue to the next stages once approval is done

14. Test Deliverables:

- Test Cases
- Test Reports
- Defect Reports