Test Plan

Online Shopping Portal

**Version History**

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| **Version #** | **Author** | **Revision Date** | **Approved By** | **Approval Date** | **Description** |
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Before Testing Phase

During Testing Phase

After Testing Phase

**Introduction**

The Test Plan is designed to describe the scope, objectives, approach/strategy, resources, and schedule of all testing activities for the Online Shopping Portal project.

The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the risks of testing, the team members responsible for testing, and the resources and schedule required to complete testing.

**Scope**

***Features to be tested***

This section defines a list of features, functional and/or non-functional requirements, that need to be tested.

* Account Registration
* Account login & logout
* Change Password
* Delete Account Request
* Return Request
* View Order History
* Order Tracking
* Search Bar
* Product Page – verify consistency throughout website and verify relevancy of content/text and images
* Add in stock and out of stock products to cart
* Shopping Cart
* Checkout Process
* Menu Bar Navigation and links pathway
* Product Comparison Option
* Refine Search Option

***Features not to be tested***

This section defines a list of features which will not be tested.

* Hardware interfaces
* Other external interfaces

**Objective**

The test objectives are to verify the functionality of the Online Shopping Portal website. The project should focus on testing the website’s functionality and the various user-focused aspects to guarantee these can work without any crucial (potentially system crashing) failures in a real-world environment.

**Risks Analysis and Mitigation**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team member(s) lack the required skills for website testing | Provide training to members to develop skill |
| Wrong Budget estimate | Establish project scope and utilize test monitoring and control actions to track and monitor progress |
| Project schedule is constricting; project deadline may be delayed | Test features based on priority and severity for test activities |

**Approach/Strategy**

***Test Types***

UI Testing (User Interface): Validate visual design/layout and functionality of interface

UX Testing (Usability/User Experience): Test user-friendliness of website

API Testing: Test all developed APIs prior to integrating with User Interface

Smoke Testing: Run test for each build

Regression Testing: Detect unintended changes in system behavior due to fixes/changes

UAT (User Acceptance Testing): Validate the fitness for use of the system by intended user in a real or simulated environment

***Test Levels***

System Integration Testing: Test whether systems are properly communicating and linked

System Testing: Test the entire website for functional and non-functional operability

Acceptance Testing: Validate system is complete and establish confidence in system quality

**Test Environment (Environmental Needs)**

This sections defines the list of hardware/software requirements for testing.

Window Server: Staging QA, Development Environment, UAT/Client Environment

Operating System on Test Machines: Windows 10, Windows 11, macOS Monterey, macOS Ventura

Browser: Chrome, Internet Explorer, Microsoft Edge, and Mozilla Firefox

Network: Wi-Fi, so laptops can be used in testing

Jira: To track bugs

**Testing Schedule and Estimation**

|  |  |  |
| --- | --- | --- |
| Task | Member | Estimate Effort |
| Design Test | Test Designer/ QA Lead | 120 Hours |
| Perform Test Execution | Tester | 80 Hours |
| Test Report | Tester | 10 Hours |
| Test Delivery |  | 20 Hours |
| Total |  | 230 Hour |

**Exit Criteria (Definition of Done)**

This sections specifies the criteria that determines successful completion of the test phase.

* Mandatory pass rate is 80%
* Major blockers/showstoppers (with severity 1) that result in frequent system failures must be addressed and fixed
* No identified critical / severity 1 defect is in Open Status
* All High Priority defects are identified and fixed
* Defect Rate falls below defined acceptable rate
* Project Deadline is reached

**Suspension/Resumption Criteria**

Testing will be suspended if team members report that more than 35% of test cases failed. Testing efforts can resume once the development team fixes all the failed cases with severity 1/high priority.

**Test Deliverables**

Test deliverables are as follows.

***Before Testing Phase***

* Test Plan Document
* Test Design Specifications
* Test Cases

***During Testing Phase***

* Test Data
* Test Traceability Matrix
* Error Logs
* Execution Logs

***After Testing Phase***

* Test Result/Reports
* Defect Report
* Product Backlog