|  |
| --- |
| TEST PLAN  PROJECT NAME - DMART |



|  |
| --- |
| **Prepared By: Sanjay Jatav**  **Date: December 17, 2024** |

INDEX

|  |
| --- |
| **Table of Contents** |

Introduction ………………………………………………………………………………………….

Objective ……………………………………………………………………………………………….

Scope …………………………………………………………………………………………………….

Testable features …………………………………………………………………………………..

Roles/Responsibilities ……………………………………………………………………………

Test Schedule ………………………………………………………………………………………..

Test Deliverables ……………………………………………………………………………………

Entry & Exit Criteria ……………………………………………………………………………….

Tools ……………………………………………………………………………………………………..

Risks and Mitigation Plans …………………………………………………………………….

Approvals ………………………………………………………………………………………………

|  |
| --- |
| **Introduction** |

The aim of this test plan is to describe the scope, approach, resources, and schedule for the manual testing of the Dmart website project. This document serves as a guide for the testing activities to ensure that the application meets its functional, performance, and usability requirements.

The Dmart website is an e-commerce platform designed to provide users with a seamless shopping experience. It includes features such as product browsing, search functionality, a shopping cart, and a secure checkout process. Given the critical nature of such features in ensuring user satisfaction and business goals, rigorous manual testing is essential.

AUT: <https://dmart-cw.netlify.app/>

|  |
| --- |
| **Objectives** |

* To ensure the website meets all specified functional requirements.
* To ensure compatibility across different browsers and devices.
* Evaluate the performance and responsiveness of the website.
* Test the user interface (UI) and user experience (UX) for consistency and ease of use.
* Identify and document defects in the application.

|  |
| --- |
| **Scope** |

* Functional Testing
* Usability Testing
* Compatibility Testing
* Performance Testing
* Security Testing (basic manual validation)

|  |
| --- |
| **Testable Features** |

* Homepage
* Product Listing Page
* Product Details Page
* Shopping Cart
* Checkout Process
* Register
* Login
* Forgot Password
* Search
* Compatibility
* Performance and Load Testing
* Error Handling and Alerts
* Security

|  |
| --- |
| **Testing Approach** |

* Understanding Requirements
* Test Planning
* Test Design
* Test Execution
* Testing Types
* Testing Methodology
* Defect Mangement

|  |
| --- |
| **Roles/Responsibility** |

|  |  |  |
| --- | --- | --- |
| **Roles** | **Responsibility** | **Name** |
| Test Engineer (manual testing) | Test Planning:   * Analyze and understand project requirements, specifications, and objectives to define the testing scope and strategy.   Test Case Design:   * Well-Structured test cases covering all functional, boundary, and edge scenarios.   Test Execution:   * Execute manual test cased systematically and document results accurately.   Defect Management:   * Track, prioritize, and communicate defects with the development team using GitHub Issues or other tracking tools.   Usability and Compatibility Testing:   * Evaluate the user interface (UI) and user experience (UX) for consistency, ease of navigation, and accessibility.   Communication and Reporting:   * Provide daily/weekly updates on testing progress, including test case execution status and defect statistics. | Sanjay Jatav |

|  |
| --- |
| **Test Schedule** |

Following is the test schedule planned for the project:

|  |  |
| --- | --- |
| **Test Schedule** | **Time Duration** |
| Test Plan Creation | 17 December 2024 |
| Test Scenario Creation |  |
| Test Case Creation |  |
| Test Case Execution |  |
| Summary Report Submission |  |

|  |
| --- |
| **Test Deliverables** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Deliverables** | **Description** | **Responsible Owner** | **Target Completion Date** |
| Test Plan | Outline the testing approach, strategies, and scope for the Dmart web. | masai | 17 December 2024 |
| Test Cases | Test cases created for both functional testing and compatibility testing | masai |  |
| Defect Reports | Detailed description of the defects identified in different versions of application. | masai |  |

|  |
| --- |
| **Entery and Exit Criteria** |

The below are the entry and exit criteria for every phase of Software Testing Life Cycle.

**Requirement Analysis:**

* **Entry Criteria:**

Once the testing team receives the requirements documents and use documents of the project. Includes what functions needs to be tested and how the software should behave.

* **Exit Criteria:**

The testing team should thoroughly explore and understand each requirement listed in the documents. Any doubts or uncertainties regarding the requirements should be addressed and clarified to ensure that the testing team has a clear understanding of what needs to be tested and how it should behave.

**Testing Planning**

* **Entry Criteria:**

Testable requirements derived from the given requirements. Test plan document includes the test strategy. Which provides a high-level overview of how testing will be conducted.

* **Exit Criteria:**

Test plan is signed-off by the client (Dmart)

**Test Designing**

* **Entry Criteria:**

The test plan document needs to be reviewed and approved by the client and then test plan document is signed-off by the client

* **Exit Criteria:**

Test scenario and test cases documents are prepared, they need to be reviewed and signed-off by the client.

**Test Execution**

* **Entry Criteria:**

Test scenarios and test cases documents are prepared, they need to be reviewed and approved by the client and documents are signed-off by the client application is ready for further testing.

* **Exit Criteria:**

Test case reports, defect reports are ready

**Test Closure**

* **Entry Criteria:**

Test case reports, Defect reports are ready

* **Exit Criteria:**

Test summary reports, it overviews of the entire testing process

|  |
| --- |
| **Tools** |

The following are the list of tools we will be using in this project:

* X mind map tool
* Jira – Project management tool
* Zephyer – Test management tool
* Git

|  |
| --- |
| **Risks and Mitigation Plans** |

**Requirement Changes:**

* **Risk:**

Incomplete or unclear requirements may lead to missed or incorrect test scenarios. Late requirement changes can also disrupt the testing schedule.

* **Mitigation Plan:**

Collaborate closely with stakeholders to clarify requirements and resolve changing before test design.

**Environment Unavailability:**

* **Risk:**

Testing environments may not be set up correctly or might not be available on time, delaying test execution.

* **Mitigation Plan:**

Plan environment setup well in advance and verify readiness before the test execution phase.

Maintain a backup testing environment or sandbox for critical tests.

**Tight Deadlines**

* **Risks:**

Compressed timelines may result in insufficient testing coverage.

* **Mitigation Plan:**

Prioritize test cases based on risk and business impact.

Focus on critical functionalities first and perform exploratory testing for additional coverage.

**Browser and Device compatibility Issues:**

* **Risk:**

The application may not function as expected across all target browsers and devices.

* **Mitigation Plan:**

Identify the most commonly used browsers and devices for target audience.

|  |
| --- |
| **Approvals** |

Masai will send different types of documents for client approval like below:

* Test Plan
* Test Scenarios
* Reports

Testing will only continue to the next steps once these approvals are done.