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# Introduction

This Test Plan outlines the overall testing strategy, objectives, scope, resources, schedule, and approach for testing the Demo Web Shop e-commerce application. It ensures all features meet the functional and non-functional requirements, providing a quality user experience.

AUT : <https://demowebshop.tricentis.com/>

# Objective

The main objective of this testing effort is to validate that all functionalities of the Demo Web Shop website perform as expected, including product navigation, user registration, cart management, checkout, and account handling across different devices and browsers.

# Scope

## In-Scope:

* Functional testing of web elements like registration, login, product search, cart management, etc.
* UI responsiveness on multiple screen sizes.
* Cross-browser compatibility.

## Out-of-Scope:

* Load and stress testing.
* Security vulnerability testing.
* Backend database and API performance tuning.

# Testable Features

* Homepage navigation (header, footer, search)
* Product category display and filtering
* Product details page
* Add/remove items in the cart
* Checkout with payment and address info
* Login, registration, and profile update
* Wishlist and order history
* Responsive layout on mobile, tablet, desktop

# Testing Approach

## Testing Types :

* Functional Testing
* UI Testing
* Usability Testing
* Regression Testing
* Performance Testing

## Testing Methodologies:

* Black Box Testing
* White Box Testing
* Load & Stress Testing
* Exploratory Testing

## Testing Environment:

* QA Environment

## Operating System:

* Windows 11 and above

# Test Environment

* **Hardware Requirements:** Desktop, laptop, tablet, and mobile devices
* **Software Requirements:** Windows, macOS, iOS, Android
* **Browsers:** Chrome, Firefox, Edge, Safari
* **Network:** 4G, 5G, broadband internet
* **Test Data:** User credentials, sample tasks, uploaded file

**Roles and Responsibilities**

| **Roles** | **Responsibilities** |
| --- | --- |
| Test Manager | * Oversees testing strategy * Manages team * Reports progress |
| Test Engineer | * Execute test cases * Report defects * Conduct retesting |
| Developer | * Fix defects and provide technical   support for testing |
| Business Analyst | * Ensures requirements are met in testing |
| Project Manager | * Ensures testing aligns with project   timelines |

# Test Schedule

Following is the test schedule planned for the subject:

| **Task** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Plan Creation | 13-June-2025 | 14-June-2025 |
| Test Scenario Creation | 13-June-2025 | 14-June-2025 |
| Test Case Creation | 13-June-2025 | 14-June-2025 |
| Test Case Execution | 13-June-2025 | 14-June-2025 |
| Bug Report | 13-June-2025 | 14-June-2025 |
| Summery Report | 13-June-2025 | 14-June-2025 |

# Test Deliverables

| **Deliverable** | **Description** | **Completion Date** |
| --- | --- | --- |
| Test Plan | Outlines the testing approach, strategies, and scope for the Amazon web  application. | 14-June-2025 |
| Test Scenario | Test Scenarios created for  all mentioned objectives | 14-June-2025 |
| Test Case | Test Cases created for both  functional testing and compatibility testing | 14-June-2025 |
| Bug Report | Detailed description of the defects identified in different versions of  application. | 14-June-2025 |
| Summary Report | Detailed overview of the status of all test cases conducted, along with suggestions for  improvement. | 14-June-2025 |

**Entry and Exit Criteria**

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

## Requirement Analysis

### Entry Criteria:

* Receives the Requirement documents of the project includes what functions need to be tested and how the software should behave. ¬

### Exit Criteria:

* Tester should thoroughly explore and understand each requirement listed in the documents. Any doubts or uncertainties regarding the requirements should be addressed and clarified.

## Test Planning

### Entry Criteria:

* Testable Requirements derived from the given Requirements documents. 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.

## 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 Scenarios and Test Cases prepared, reviewed, and signed-off by Client.

## Test Execution

### Entry Criteria:

* Test Scenarios and Test Cases reviewed and approved by the client. Application is ready for further Testing

### Exit Criteria:

* Test Case Reports and Defect Reports ready

## Test Closure

### Entry Criteria:

* Test Case Reports and 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
* Microsoft Excel
* Microsoft Word
* Slack – collaboration

**Risk and Mitigation Plans**

| **Risk** | **Mitigation Plan** |
| --- | --- |
| Unclear requirements | Regular communication with stakeholders |
| Test environment issues | Early setup and continuous monitoring |
| High defect leakage | Implement rigorous regression testing |
| Performance issues | Conduct performance testing before  deployment |
| Security issues | Perform penetration testing and code  reviews |

# Approvals

Below are the documents required for Client Approval :

* Test Plan
* Test Scenarios
* Reports

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

# Mind Map

Presented with X-Mind