The Test Titans 🗿: Test Plan_v1.0

Artwork by Nazish Jehangir!

- **Test Plan Designer:** Nazish Jehangir
- **Date of Creation:** 16th Dec 2024
- **Software to be Tested:** Myntra!

What Would You See Ahead 🤔...??

Here's a comprehensive table of contents...

Introduction 👋:

This test plan is created to evaluate the functionality, usability, and performance of the **Myntra demo website**. Which is a replica website of the Myntra online e-commerce website presented by Flipkart, maybe developed as a CW project by any of the Masai Students. The testing will identify defects, ensure website works well from both functional and non-functional aspects and provide insights for improvement.

Test Plan ID: TP-TST-2024-001

Objective 🚀:

The test plan aims to ensure that all the core functionalities of the software meet the requirements and work seamlessly. The test plan will ensure the system's performance remains well under a specific work load conditions. The goal is also to identify usability flaws that could hinder a better user experience. The test plan will prove to be a wholesome guide throughtout the testing phase to make both testing and software deployment successfull.

Scope 🔍:

In-Scope

- All the core functionalities of the website.
- Identifying usability flaws hindering user experience.
- Website's performance under both normal and extreme load conditions.

Out-of-Scope

- User authentication via social media logins.
- Long-term performance benchmarking.

Approach 🧭:

- **Manual Testing:** For UI/UX, functionality & exploratory testings.
- **Automation Testing:** To test repititive tasks Selenium & Appium will be used.
- **Security Testing:** To ensure website's protection against hackers, Burp Suite/OWASP.

Entry Criteria 🔑:

- The Testing team should review the Requirement Analysis document carefully.
- The system should be stable and ready for testing.
- The website should be accessible across different devices/operating systems to tested.

Exit Criteria 🔙:

- All of the core functionalities should be tested successfully.
- All usability issues, such as navigation problems or accessibility issues, are tested.
- All performance bottlenecks are identified and resolved.

Test Environment 🖥️:

- **Devices:** Desktop, laptops, tablets, mobiles etc.
- **OS:** Windows 10, Windows 11, Linux etc.
- **Browsers:** Chrome, Edge, Firefox etc.
- **Network:** 50-75 Mbps Fiber, VPN Enabled
- **Hardware:** Intel i6, 16 GB RAM, 512 GB SSD
- **Testing Tools:** Selenium 4.11, JIRA, Postman v10.1

Scheduling 📅:

Activities	Starting Dates	Ending Dates	Durations	Responsible Persons
Test Planning	16th Dec 2024	17th Dec 2024	2 days	Test Manager
Test Case Preparation	18th Dec 2024	19th Dec 2024	2 days	QA Team
Test Environment Setup	Same date	Same date	2 days	QA Team
Functional Testing	Same date	Same date	2 days	QA Team
Usability Testing	Same date	Same date	2 days	UX Team
Performance Testing	Same date	Same date	2 days	Performance Testers
Test Execution Report	Same date	Same date	2 days	QA Team
Bug Fixes and Retesting	20th Dec 2024	21th Dec 2024	2 days	Developers & QAs
Suggestion for Improvements	Same date	Same date	2 days	QA Team

Deliverables 📝:

Content	Details
Test Scenarios	A detailed documentation that includes detailed test scenarios for the test cases.
Test Cases	A detailed documentation that includes all the detailed test cases for functional land non-functional aspects of the website.
Test Execution Report	A detailed reports for the executed test cases.
Bug Reporting	A well documented report of all the bugs found during the testing phase.
Test Summary	A well documented report summarizing test coverage, outcomes and any pending fixes.
Suggestion for Improvements	A well documented report suggesting ideas for improvements based on usability testing feedback.

Roles & Responsibilities 👨‍💼:

Role	Assigned To	Responsibility/Assignment
Test Lead	Nazish Jehangir	Coordinating the testing efforts.
Automation & Manual Tester	Nazish Jehangir	Writing & executing automation scripts doing functional testings
Security Test Engineer	Nazish Jehangir	Vulnerability Scanning & Penetration Testing.
API Test Engineer	Nazish Jehangir	Testing the Backend Services & APIs.

Risks or Threats ⚠️:

- Delay in the test environment setup.
- Unavailability of test data for order placement
- Device compatibility issues.

Backup Plans or Mitigations 🛡️:

- Collaborate closely with the DevOps team to ensure early setup.
- Use dummy data for test purposes if live data is unavailable.
- Test on a wide range of devices and emulators for different Android/iOS versions.

Assumptions 🤔:

- The test environment will be ready before the scheduled test execution.
- All the necessary documentation will be provided by the development team.
- Access to production-like data will be granted for testing purposes.

Resources Planning 📊 📋:

Human Resources Needed:

- Test Lead
- Manual Tester
- Automation Engineer
- Security Engineer
- API Tester

Human Resource Available:

- As i am working on the testing project alone so i have to handle every task mentioned above or throughout the whole testing phase.

Tools for Testing 🛠️:

Tool to Use	Usage/Task
Selenium	For automation of web.
Appium	For automation of mobile apps, as the name 'Appi'um suggests.
Postman	To test the backend services of the website, software or application.
BurpSuite/OWASP ZAP	For vulnerability scanning and penetration testing of the software.
Jira	For defect management and progress tracking.

Approvals ✓:

The testing phase will be starting within the day the test plan gets approved.

Posts	Employee Name	Approved By
QA Manager	Nazish Jehangir	**Masai School**
Project Lead	Nazish Jehangir	**Masai School**
Product Manager	Nazish Jehangir	**Masai School**

I didn't had any co-worker so i've been working solely throughout the whole testing phase.

Sign Off/Conclusion 🏁:

The test plan for the [Demo Myntra website](#) provides a conprehensive framework to ensure all critical functionalities of the software functions well without malfunctioning and has no security threats has a user friendly navigation system and user interface across different devices or platforms, operating systems and browsers. By covering all the functional, usability & security aspects the test plan helps ensuring a successful release of the software.