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TEST PLAN

DemoBlaze

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Introduction :

The **DemoBlaze** website is an e-commerce platform where users can browse, search, and purchase electronic products, including **phones, laptops, and monitors**. The website provides essential features such as **user registration, login, product selection, cart management, order placement, and payment processing**. Additionally, it ensures a seamless shopping experience with functionalities like product details, user reviews, and customer support.

This **test plan** outlines the **manual testing strategy** to validate that all core functionalities operate correctly, are user-friendly, and deliver optimal performance across different devices and browsers. The goal is to identify and address any usability, functionality, or performance issues to ensure users' smooth and reliable experience.

- Website Link: https://www.demoblaze.com/index.html

Test Objectives :

- Ensure all navigation links work correctly and lead to the intended pages.
- Validate the functionality of essential features like Registration, Login, Product Search, Add to Cart, Checkout, Wishlist, and Footer Links.
- Ensure the website works properly across different browsers and devices (desktop, tablet, and mobile).
- Create a Selenium-based test automation framework using the Page Object Model (POM) to automate and validate key features, and navigation, and ensure functionality.

Scope of Testing :

- The test plan includes functional, UI/UX, and usability testing across major browsers (Chrome, Edge) and devices (desktop, mobile). It covers both manual and automated testing of core features to ensure consistent user experience and reliability, with manual testing also conducted for non-functional aspects.

Features to be tested :

- **User Registration & Login** – Account creation, login/logout functionality.
- **Product Browsing & Search** – Product categories, search bar, filters.
- **Shopping Cart** – Add, remove, and view cart items.
- **Checkout Process** – Shipping details, payment options, and order confirmation.
- **Order Management** – View past orders, track orders, and cancel orders.
- **Product Details** - Get product description and other necessary details.

Features Not to be Tested :

- Third-party services like payment gateway integration details.
- Marketing emails and push notification campaigns (managed by a separate team).

Testing Approach :

Testing Types :

- **Functional Testing:** Ensuring that all functional aspects of the website work as expected.
- **UI/UX:** Verifying the website's interface and user experience.
- **Compatibility Testing:** Testing across browsers, OS, and devices.
- **Usability Testing:** Evaluating the ease of use and user-friendliness of the site.

Testing Methodologies:

- **Page Object Model (POM):** Using reusable page objects to make tests easier to maintain and scale.
- **Exploratory Testing:** Testing beyond the given scenarios to find unexpected issues.
- **Manual Testing:** Testing the app without knowing its internal workings, focusing only on inputs and outputs.

Testing Environment :

- **Operating System:** Windows 10 and Windows 11 above
- **Browsers:** Chrome, Firefox, Edge, Brave.

Tools :

- Selenium
- Google Sheet
- Google Doc
- XMind (Mind Mapping)
- GoogleMeet
- Cucumber
- JUnit
- Slack

Test Schedule :

Phase	Duration
1. Test Plan Creation & Mind Map	28-02-2025
2. Test Scenario	01-03-2025
3. Test Execution	01-03-2025
4. Manual Test Cases & Bug Reporting	01-03-2025
5. Test Summary	02-03-2025
6. Presentation Report Submission	02-03-2025

Roles and Responsibilities :

As the Software testers for this project, **Paras Sanghvi**, **Satyajit Sahu,** and **Vineet Singh** were responsible for the following:

- Developing a detailed **Test Plan** outlining the testing objectives, scope, and approach.
- Writing detailed BDD scenarios in Gherkin syntax

- Designing and implementing automated tests using **Selenium** and the **Page Object Model (POM)** for core features.
- Performing manual and exploratory testing to evaluate functionality, UI/UX, and cross-browser compatibility.
- Identifying, reporting, tracking bugs, and documenting insights to ensure all issues were addressed.
- Preparing comprehensive **Test Results Summaries** to report on test outcomes and overall product quality.

Entry and Exit Criteria :

Entry Criteria:

- Access to the Demo Web Shop website.
- All features are available and functional.
- Approved test cases and Selenium scripts using the Page Object Model (POM) are ready for execution.
- Test environment set up and accessible for testing.

Exit Criteria:

- All critical and high-priority bugs are fixed and verified.
- All features meet the expected behavior defined in the test scenarios.
- Test results documented, including any open issues or risks.

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Deliverables :

Deliverable	Description
Test Plan & Mind Map	Strategy document outlining testing scope, timeline, and resources.
Manual Test Cases & Automation Test Scripts	Includes all functional and non-functional test cases
Test Execution Report	Daily reports of test execution progress
Defect Report	All bugs found during testing
Test Summary Report	Final report summarizing test coverage, outcomes, and any unresolved issues.

Risks and Mitigations :

- **Risk:** Non-Availability of a Resource
- **Mitigation:** Backup Resource Planning
- **Risk:** The build URL is not working
- **Mitigation:** Resources will work on other tasks
- **Risk:** Less time for Testing
- **Mitigation:** Ramp up the resources based on the Client's needs dynamically.

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Approvals :

The team will send different types of documents for Client Approval like below:

- Test Plan
- Test Scenarios
- Test Cases
- Bug Reports
- Project Manager
- QA Lead
- Sign Off

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