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| **TEST\_PLAN**  Project Name : Demo Web Shop  URL Link : [Click Here](https://demowebshop.tricentis.com/) |



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| **Prepared By**: Shaik Tanzeela  **Start Date:** December 18, 2024  **End Date:** December 24, 2024 |

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| **Table of Content** |

* Introduction
* Objectives
* Scope
* Testable Features
* Testing Approach
* Roles/Responsibilities
* Test Schedule
* Test Deliverables
* Entry & Exit Criteria
* Tools
* Risks and Mitigation Plans
* Approvals

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| **Introduction** |

The objective of this test plan is to outline the strategy and approach for end-to-end testing of the **Demo Web Shop application**. This project aims to ensure functionality, usability, performance, and compatibility of the application using Selenium and the Cucumber framework. The scope includes automated testing of navigation, core functionalities, and reporting using tools like TestNG, JUnit, and Extent Reports.

* Website Link: [Web Demo Shop Website](https://demowebshop.tricentis.com/)

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| **Objectives** |

* Ensure all navigation links and features work as intended.
* The updated scope includes additional features such as **Registration**, **Product Search**, **Shopping Cart**, **Payment Gateway**, **User Account**, **Price Filter Functionality**, and **Display Options**.
* Ensure responsiveness across browsers and devices.

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| **Scope** |

The test plan covers **functional, UI/UX,** and **Usability** testing across major browsers (Chrome, Edge) and devices (desktop,mobile). It includes manual and automated testing of core features to ensure user experience consistency and reliability and manual testing performed for Non-functional testing.

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| **Testable Features** |

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| * **Registration** | Validate successful user registration with valid data and error handling for invalid data. |

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| * **Product Search** | Test search functionality for accuracy and usability, including keyword search and category-based filters. |

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| * **Shopping Cart** | Add/remove/update items in the shopping cart and validate total calculations. |
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| * **Payment Gateway** | Test different payment methods for security, failure handling, and successful transactions. |

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| * **User Account** | Validate account management features like profile updates, order history, and wishlist creation. |

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| * **Price Filter Functionality** | Ensure accurate filtering of products based on specified price ranges. |

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| * **Display Options** | Test sorting options, grid and list views, and pagination to ensure a smooth browsing experience. |

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| **Testing Approach** |

**Testing Types**:

* **Functional Testing**: Verify that features (e.g., registration, add to cart) perform as expected.
* **UI/UX Testing**: Ensure the website is visually appealing, intuitive, and user-friendly.
* **Compatibility Testing**: Test across browsers (Chrome, Edge, Firefox) and devices (desktop, tablet, mobile).
* **Performance Testing**: Measure page load times and responsiveness for critical features..
* **Exploratory Testing:** Testing beyond documented scenarios.
* **Regression Testing:** Validating existing features after bug fixes or new feature additions.
* **Black Box Testing:** Testing without knowledge of internal implementation.

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| **Roles/Responsibilities** |

As the sole tester for this project, I was responsible for:

 **Test Planning**: Designing a comprehensive test plan to ensure thorough coverage of all functional and non-functional requirements.

 **Test Case Creation**: Writing detailed test cases and scenarios for manual and automated testing of key features.

 **Framework Setup**: Configuring the Selenium-Cucumber framework with TestNG and integrating Extent Reports for advanced reporting.

 **Test Execution**: Performing both manual and automated testing to validate application functionality, usability, and responsiveness.

 **Defect Reporting**: Identifying and logging defects with detailed documentation, including screenshots and reproduction steps.

 **Cross-Browser Testing**: Ensuring compatibility across Chrome, Firefox, and Edge.

 **Collaboration**: Coordinating with developers to clarify requirements and resolve defects efficiently.

 **Reporting**: Generating detailed test execution and summary reports for stakeholders to highlight progress and quality metrics.

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| **Test Schedule** |

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| **Task** | **Duration** |
| Test Plan Creation & Mind Map | 17 December 2024 |
| Test Scenario | 18 December 2024 |
| Test Scripts & Execution | 18 December - 19 December 2024 |
| Manual Test cases & Bug Reporting | 19 December |
| Test Summary / Presentation Report Submission | 20 December – 21 December 2024 |

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| **Test Deliverables** |

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| **Deliverable** | **Description** |
| Mind Map & Test Plan | Detailed testing strategy and scope |
| Manual Test Cases & Automation Test Scripts | Detailed cases for functional/UI testing |
| Defect Reports | Identified bugs during testing |
| Test Summary | Detail summarise what you have done in whole Testing |

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| **Entry & Exit Criteria** |

### **Entry Criteria:**

* Access to the Demo Web Shop website.
* All features are functional and ready for testing.
* Test environment is stable.
* Approved Cucumber feature files and Selenium scripts are available.
* Required test data is prepared.

### **Exit Criteria:**

* All critical and high-priority bugs are fixed.
* Automated test cases meet project quality standards.
* Features behave as defined in Cucumber feature files.
* Test summary reports are shared with stakeholders.
* Stakeholder approval for test phase completion.

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| **Tools** |

1. **Selenium**: For writing and executing automation scripts.
2. **Cucumber**: For defining BDD scenarios.
3. **BrowserStack**: For cross-browser and device compatibility testing.
4. **Google Sheet**: For Manual Testing to be non-functional.
5. **Google Docs**: For creating Test Plan and Test Summary.

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| **Risks and Mitigation Plans** |

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| **Deliverable** | **Description** |
| Unstable website | Plan testing during stable hours. |
| Undefined requirements | Clarify requirements before testing. |

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| **Approvals** |

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

* **Test Plan**
* **Scenarios**
* **Scripts**
* **Reports**

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