

Test Strategy Document

INKARTO AUTOMATION SUITE



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1.0 Introduction

1.1 Purpose

This Test Strategy document defines the testing types, levels, and approach for validating core functionalities of the Inkarto e-commerce website. It outlines the strategy to verify that all identified modules (e.g., User Registration, Product Search, Wishlist Management, Address Handling, etc.) perform as expected under different conditions and across multiple browsers. This document also serves to guide test planning, automation script development, and reporting across the project lifecycle.

1.2 Target Audience

- Automation Team
 - Project Review Committee
 - Hackathon Mentors
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2.0 System Description

Inkarto is an e-commerce platform offering a range of handcrafted products, including Lippan Art, artificial flowers, and other home decor items. It provides a complete online shopping experience for customers across its web interface. The automation suite covers various user journeys, including account registration, product discovery and search, wishlist management, address configuration, and validation of social media integrations.

3.0 Test Deliverables

Project Phase	Deliverables
Test Planning	Test Strategy Document, Execution Timeline
Test Design	Feature Files, Test Conditions, Test Data Design
Test Development	Automation Scripts, POM Framework Implementation
Test Execution	Test Logs, Screenshot Captures, Browser Reports
Test Completion	Test Summary Report, Defect Log (if any)

4.0 Test Types

The following testing types were applied across the project:

1. Functional Testing
2. Regression Testing
3. Data-Driven Testing
4. Multi-Browser Compatibility Testing
5. UI Validation and Navigation Testing
6. BDD Scenario Testing using Cucumber
7. Error Handling and Negative Testing

5.0 Multi-Browser Testing

Tests were executed on the following browser environments:

- **Google Chrome:** Version 60 and above
- **Microsoft Edge:** Version 60 and above

Scripts validated UI consistency, field validations, and navigation behaviour across both platforms.

6.0 Test Data

Test data management follows a modular approach to ensure flexibility and maintainability:

- Data inputs for user registration and other form fields are stored and retrieved from **Excel files** using Apache POI.
 - Runtime parameters such as browser type, application URL, and test credentials are externalized in **.properties** files.
 - Address information and other complex data sets are structured and retrieved from **XML files**.
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7.0 Resources Required

7.1 Hardware

- Development PCs or Laptops with internet access.

7.2 Software

- Windows 10 and above
 - Google Chrome, Microsoft Edge
 - MS Excel
 - Selenium WebDriver
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- Apache POI
- XML
- BDD
- Properties
- Cucumber
- TestNG
- Allure Reporting Plugin
- Java SDK
- GitHub (version control)

