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| TEST\_PLANProject Name : Demo Web ShopURL Link : [Click Here](https://demowebshop.tricentis.com/) |

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# Test Plan ID: TP-DEMO WEB SHOP-001

# Project Code: B41\_SDET\_Automation Mavericks

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# Creation Date: [17-DEC-2024 to 22-DEC-2024]

# Test Plan for Demo Web Shop Test Automation

## Table of Contents

1. Objective

2. Scope

3. Approach

4. Test Environment

5. Testing Types

6. Test Scenarios

7. Entry and Exit Criteria

8. Test Deliverables

9. Schedule

10. Risks and Mitigation

## 1. Objective

The objective is to validate the core functionalities of the Demo Web Shop, including navigation, product browsing, cart management, and checkout processes, using a Cypress-based automation framework implementing the Page Object Model (POM) design pattern.

## 2. Scope

### In Scope:

* - Functional Testing of:
* - Homepage navigation
* - Product search and filtering
* - Cart management
* - Checkout process
* - UI responsiveness on desktop, tablet, and mobile devices.
* - Regression Testing for new updates.

### Out of Scope:

* - Third-party integrations (e.g., payment gateways).
* - Performance testing.

## 3. Approach

* - Use Cypress for automated testing.
* - Implement the Page Object Model (POM) to ensure test modularity and reusability.
* - Execute test cases using Cypress Test Runner and CLI.

## 4. Test Environment

### Browsers:

* - Google Chrome
* - Mozilla Firefox
* - Microsoft Edge

### Screen Sizes:

* - Desktop (1920x1080)
* - Tablet (768x1024)
* - Mobile (375x667)

### Test Data:

* - Dynamic and reusable data for fields such as product names, user credentials, and address details.

## 5. Testing Types

* - Functional Testing
* - Regression Testing
* - UI/UX Testing
* - Responsive Design Testing

## 6. Test Scenarios

### Homepage Navigation

* - Validate header and footer links (e.g., Login, Register, Product Categories).
* - Test the search bar for keyword-based searches and edge cases.

### Product Browsing and Filtering

* - Validate the display of product categories and subcategories.
* - Apply filters (e.g., price range, manufacturer) and verify filtered results.

### Cart Management

* - Add and remove products from the cart.
* - Update quantities and verify cart totals.

### Checkout Process

* - Validate address entry, payment options, and order confirmation.
* - Test error handling for incomplete fields.

### User Account

* - Test login and registration processes.
* - Validate profile updates and order history.

## 7. Entry and Exit Criteria

### Entry Criteria:

* - Application is stable and ready for testing.
* - All required test data is available.
* - Test environment is configured.

### Exit Criteria:

* - All planned test cases are executed.
* - Critical bugs are resolved.
* - Test summary report is delivered.

## 8. Test Deliverables

* - Test Plan Document
* - Detailed Test Scenarios and Cases
* - Automated Test Scripts (Cypress)
* - Bug Reports
* - Summary Report
* - Mind Map of Test Coverage

## 9. Schedule

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| Task | Duration | Owner |
| Test Plan Creation | 2 Days | Test Lead |
| POM Implementation | 5 Days | Test lead |
| Test Case Development | 5 Days | Test Lead |
| Test Execution | 3 Days | Test lead |
| Report Preparation | 2 Days | Test Lead |

## 10. Risks and Mitigation

### Risks:

* - Delays in application readiness.
* - Test data inconsistencies.
* - Browser compatibility issues.

### Mitigation:

* - Coordinate with the development team for timely application delivery.
* - Use dynamic and reusable test data.
* - Perform cross-browser testing during the initial phases.