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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

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## 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

| 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.