

Test Plan

Test Plan for Shopping Application

1. Test Plan Identifier

- Title: Test Plan for Academybugs Shopping Application
 - Application URL: <https://academybugs.com/find-bugs/>
 - Tester: Rishi S
 - Type of Testing: Manual Testing
 - Version: 1.0
 - Team Size: Individual
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2. Introduction

- **Objective:**

The objective of this test plan is to ensure the functionality, reliability, and usability of the Academybugs shopping application. The plan focuses on verifying each feature as described in the user stories, identifying bugs, and validating fixes.

- **Scope:**

This test plan covers:

- Homepage features (product display, sorting, filtering, pagination).
- Product description page functionalities.
- Cart management, checkout, and payment options.
- User account features (signup, login, dashboard, address management).

- **Exclusions:**

Non-functional testing like performance, load, and security testing.

3. Test Items

The features to be tested include:

- **1. Homepage:**
 - Product display (3-column layout).
 - Sorting and filtering options.
 - Pagination (10, 25, 50 products per page).
- **2. Product Details Page:**

- Product description fields (model number, manufacturer).
 - Social media buttons.
 - Feedback form functionality.
 - **3. Cart Management**
 - Add, remove, increase/decrease product quantities.
 - Calculate cart total (dynamic updates).
 - **4. Checkout and Payment**
 - Billing and shipping address forms.
 - Apply coupon/gift card functionality.
 - Proceed to checkout.
 - **5. User Account Management**
 - Signup and login process.
 - Dashboard with past orders.
 - Address management.
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4. Test Approach

- **Testing Levels:**
 - Unit Testing: Verify individual components (e.g., add-to-cart functionality).
 - Integration Testing: Ensure components work together (e.g., cart updates on removing items).
 - System Testing: Validate the entire application end-to-end.
 - Regression Testing: Recheck fixed bugs and other functionalities after updates.
 - **Testing Types:**
 - Functional Testing: Verify each feature works as expected.
 - Usability Testing: Ensure the application is user-friendly.
 - Exploratory Testing: Identify potential bugs not covered in test cases.
 - **Test Techniques:**
 - Boundary value analysis (e.g., pagination limits).
 - Equivalence partitioning (e.g., valid vs. invalid login credentials).
 - Manual exploratory testing.
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5. Test Environment

- **Hardware:**
 - Minimum requirements: Dual-core processor, 4GB RAM, stable internet connection.
 - Devices: Desktop (Windows, macOS), Mobile (iOS, Android).
 - **Software:**
 - Browser: Chrome, Firefox, Safari, Edge.
 - Tools: Zephyr Scale (test case management), JIRA (bug tracking).
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6. Test Deliverables

- **Documents:**
 - Test Plan Document.
 - Test Cases (with detailed steps and expected results).
 - Bug reports (logged in JIRA).
 - Test Summary Report.
 - **Execution Results:**
 - Pass/Fail status of each test case.
 - Screenshots for failed test cases.
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7. Testing Schedule

Task	Duration
Preparation of Test Plan	1 day
Preparation of Test Scenarios & Test Cases	1 day
Test Execution	1–2 days
Bug Reporting	During execution
Test Summary Report	0.5 day

8. Entry and Exit Criteria

- **Entry Criteria:**
 - Requirements/user stories are finalized.
 - Application is deployed on the staging environment.
 - Test cases are reviewed and approved.
 - **Exit Criteria:**
 - All planned test cases are executed.
 - All critical and major bugs are fixed and verified.
 - Test Summary Report is prepared and shared.
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9. Risks and Assumptions

- **Risks:**
 - Limited access to the staging environment.
 - Tight timelines for testing cycles.
 - Unavailability of required test data.
 - **Assumptions:**
 - Requirements will not change significantly during the testing phase.
 - All dependencies (e.g., JIRA, Zephyr Scale) are functional.
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10. Roles and Responsibilities

Since this is an individual project:

Role	Responsibilities
Tester (Rishi S)	Prepare test plan, design test cases, execute tests, report bugs, prepare test summary.

11. Test Case Summary

Module	No. of Test Cases	Priority
Homepage	--	High
Product Details	--	Medium
Cart Management	--	High

Module	No. of Test Cases	Priority
Checkout & Payment	--	High
User Account	--	Medium