# Test Plan for Daraz E-commerce Site

## 1. Introduction

### Objective:

To ensure the Daraz e-commerce site functions seamlessly across all platforms, delivering a high-quality user experience. The test plan covers functionality, performance, security, and compatibility.

### Scope:

This test plan includes testing for:

- User registration/login

- Product browsing and search

- Cart and checkout functionality

- Payment integration

- Order management

- Admin panel features

- Security

- Performance

### Assumptions:

- Test data will be provided by the development team.

- All features mentioned in the requirements document are implemented.

## 2. Test Items

The following modules will be tested:

- User Module: Registration, login, profile management, and password recovery.

- Product Module: Search, filtering, sorting, and product details.

- Cart Module: Add to cart, remove from cart, and update quantities.

- Checkout Module: Address management, shipping options, and order confirmation.

- Payment Gateway: Integration with multiple payment providers.

- Order Management: Order tracking, cancellations, and returns.

- Admin Panel: Product management, order management, and user management.

## 3. Test Strategy

### Testing Levels:

- Unit Testing: Conducted by developers for individual components.

- Integration Testing: Ensures modules interact correctly.

- System Testing: Validates the complete e-commerce site.

- Acceptance Testing: Ensures the site meets business requirements.

### Testing Types:

- Functional Testing: Verifies the functionality of each feature.

- Usability Testing: Assesses user experience and ease of navigation.

- Performance Testing: Ensures the site performs well under load.

- Security Testing: Identifies vulnerabilities in the site.

- Compatibility Testing: Checks compatibility across browsers and devices.

## 4. Test Environment

### Hardware Requirements:

- Server: Minimum 8-core CPU, 16GB RAM, SSD storage.

- Client: Desktop, laptop, tablet, and mobile devices.

### Software Requirements:

- Browsers: Chrome, Firefox, Safari, Edge.

- Tools: Selenium, JMeter, Postman, OWASP ZAP.

## 5. Test Cases

Example Test Cases:

- User Registration: Verify users can register with valid details.

- Login: Check login functionality with valid/invalid credentials.

- Product Search: Validate search results for specific keywords.

- Add to Cart: Confirm items can be added and updated in the cart.

- Payment: Test successful and failed payment scenarios.

- Order Tracking: Verify users can track their orders post-purchase.

- Admin Product Management: Ensure admins can add, update, and delete products.

## 6. Defect Management

### Defect Reporting Tool:

Jira

### Defect Lifecycle:

1. Identify and report defect.

2. Assign to the developer.

3. Fix and retest.

4. Close if resolved; reopen if unresolved.

## 7. Schedule

|  |  |  |
| --- | --- | --- |
| Phase | Duration | Responsibility |
| Test Planning | 1 week | QA Lead |
| Test Case Preparation | 2 weeks | QA Team |
| Test Execution | 4 weeks | QA Team |
| Bug Fixes & Retesting | 2 weeks | Dev & QA Teams |

## 8. Risks and Mitigation

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| --- | --- |
| Risk | Mitigation Strategy |
| Delayed development | Regular progress reviews and updates. |
| Insufficient test coverage | Use test case traceability matrix. |
| Third-party API failures | Mock API testing and fallback strategies. |

## 9. Approvals

|  |  |  |
| --- | --- | --- |
| Name | Role | Approval Date |
| QA Lead | Quality Lead |  |
| Project Manager | Project Head |  |
| Product Owner | Stakeholder |  |