Test Plan

Test Plan Template:

Online Shopping E-Commerce Web Application.

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3 July 2025

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1. INTRODUCTION

- This test plan outlines the strategy and approach for testing the OnlineShopping e-commerce web application.
- The objective is to ensure the application performs as expected under various conditions, is secure, user-friendly, and meets all functional requirements.

2. TEST OBJECTIVES AND TASKS

2.1 Test Objective

- Validate core functionality (login, product search, cart , checkout, etc.)
- Ensure UI consistency across browsers and devices
- Test performance and security
- Identify and fix bugs beforerelease

2.2 Task

Test Plan, i.e., testing, post-testing, problem reporting, etc.

3. TEST SCOPE .

- Functional Testing
- UI/UX Testing
- Performance Testing

- Security Testing
- Cross-browser Testing
- Mobile Responsiveness Testing
- Regression Testing during sprint cycle

4. TEST ENVIROMENT

4.1 Hardware

- Desktop, Android, iOS

4.2 Software

- Browsers: Chrome, Firefox, Safari, Edge
- web Application

5. TEST STRATEGY.

5.1 Test Items

- User registration/login
- Product listing and filtering
- product details view
- Shopping cart and checkout
- Checkout process(Address,payment)
- Wishlist

- Order management
- User profile management
- Discount and Coupons
- Notifications(email/text/SMS)

5.2 Test Type & Techniques.

- Functional: Test all application features
  against requirment

- Cross browser: Test in chrome, firefox,safari,
  Edge,etc.

- Performance: Scalability Testing

- Security:

- Mobile Testing: Checks on various screen size

- Regression: Ensure new changes dont break existing
  functionality.

- UI/UX: Visual checks , Layout, alignment.

5.3 Level of Testing

- Unit Testing
- Integration Testing

- System Testing
- User Testing

5.4 Test Cases

- Regsiter a new user
- login with vaild/invaild password
- Add Product to Cart
- Apply coupon code at checkout
- Payment gateway success/failed
- Payment Methods (GPay, Credit cards, debit cards, Cash, Bank transfers)
- View order history
- view wishlist

6. TEST SCHEDULE

- Define any additional test milestones needed.
- Estimate the time required to do each testing task. Specify the schedule for each testing task and test milestone.
- Timeline

7. Resourses & Responsibilities

7.1 Human Resourrses:

QA Lead : Manage Testing lifecycle.

QA Engineers: write& execute test cases.

Developers : Fix bug reports.

Product Owner: Approve test scope .

Security tester: Report and validate security risk.

User Acceptance tester: provide feedback, vaildate key user flows from a business/user perspective.

8. RISKA & MITIGATION

- Identify the high-risk assumptions of the test plan.
- Specify contingency plans for each (for example, delay in delivery of test items might require increased night shift scheduling to meet the delivery date).
- Payment
- Incomplete requirments

9. Entry & Exit Criteria

9.1 Entry criteria :

- All business and functional requirements are finalized and approved.
- Test Enviroment is set and stable.
- Test data is available and configured (ex: user account , product catalog).
- All necessary hardware and software resources are in place.
- Required tools and test access (ex: admin panel, database) are available.

9.1 Exit Criteria :

- All planned test cases have been executed.
- Regrassion tests passed after bug free.
- Final summary report is reviwed and signed off by QA Lead & product owner.
- UAT is complete and signed off.
- No open critical or high priority defects.

10. Test Deliverables

- Test plan document
- Test Cases

- Bug Reports
- Final Test summary
- Test Execution Reports