

TEST PLAN

Flipkart E-Commerce Web Application

1. Document Information

Document Name: Test Plan – Flipkart Web Application

Version: 1.0

Prepared By: QA Manager

Reviewed By: Test Lead / Product Owner

Approved By: Project Manager

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2. Introduction

This document describes the **Test Plan** for the **Flipkart E-Commerce Web Application**.

The purpose of this plan is to define the **testing scope, strategy, approach, resources, schedule, risks, and deliverables** to ensure the application meets business, functional, performance, and security requirements before release.

3. Objectives

The objectives of testing are:

- To verify all functional and non-functional requirements
- To ensure critical user journeys work without defects
- To identify and report defects early in the SDLC
- To validate system performance, security, and usability
- To ensure a high-quality user experience across browsers

- To support a stable production release
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4. Scope of Testing

4.1 In-Scope Features

Module	Jira ID	Description
User Registration & Login	FLIP-1001	Phone, Email, OTP, Google, Facebook login
Profile Management	FLIP-1002	Address, payments, preferences
Homepage & Navigation	FLIP-1003	Performance, personalization, language
Multi-Modal Search (Immerse)	FLIP-1004	Text, voice, image, video search
Category Browsing & Filters	FLIP-1005	Filter persistence, trends
Product Detail Page (PDP)	FLIP-1006	AR preview, variants, reviews
Wishlist	FLIP-1007	Add/remove items, alerts
Shopping Cart	FLIP-1008	Coupons, SuperCoins, persistence
Checkout & Payments	FLIP-1009	COD, BNPL, UPI, cards
Order Tracking & Returns	FLIP-1010	Tracking, cancellations
Flipkart Black & SuperCoins	FLIP-1011	Earn/redeem rewards
Seller Onboarding	FLIP-1012	GST, KYC, bank verification
Seller Product Listing	FLIP-1013	CSV & AI-assisted listing
Seller Inventory & Orders	FLIP-1014	Stock, FBF
Seller Payments & Analytics	FLIP-1015	Settlements, reports
Customer Support	FLIP-1016	AI chat, tickets

4.2 Out of Scope

- Native mobile applications (Android / iOS)
 - Backend ML model training
 - Physical store integrations
 - International expansion
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5. Test Strategy & Approach

5.1 Test Levels

- Smoke Testing
 - System Testing
 - Integration Testing
 - Regression Testing
 - User Acceptance Testing (UAT)
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5.2 Types of Testing

Test Type	Description
Functional Testing	Validate business workflows
UI/UX Testing	Layout, responsiveness
Performance Testing	Load time, checkout speed
Security Testing	Authentication, payments
Compatibility Testing	Cross-browser testing
Accessibility Testing	WCAG compliance
Localization Testing	English / Hindi support

Data Validation	Orders, payments, rewards
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6. Test Environment

Component	Details
Operating Systems	Windows 10/11, macOS
Browsers	Chrome, Firefox, Edge, Safari
Test Environment	QA, Staging
Database	Masked production-like data
Network	3G, 4G, Broadband

7. Entry and Exit Criteria

7.1 Entry Criteria

- Requirements approved and signed off
 - Test environment ready
 - Test data available
 - Application build deployed successfully
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7.2 Exit Criteria

- At least 95% test cases executed
- No open Critical or Blocker defects
- All High-priority defects fixed and retested
- Test Summary Report approved

8. Test Deliverables

- Test Plan
 - Test Scenarios
 - Test Cases
 - Defect Reports
 - Regression Test Suite
 - Test Summary Report
 - Release Sign-off Document
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9. Defect Management Process

Attribute	Details
Tool	Jira
Severity Levels	Critical, High, Medium, Low
Priority Levels	P0, P1, P2, P3
Defect Workflow	New → Assigned → Fixed → Retest → Closed

10. Risks and Mitigation

Risk	Impact	Mitigation
Payment gateway failure	High	Mock and retry testing
Inventory mismatch	High	Backend data validation
High traffic during sales	High	Load and stress testing

AI search inaccuracies Medium Exploratory testing

11. Roles and Responsibilities

Role	Responsibility
QA Manager	Test strategy, sign-off
Test Lead	Planning and coordination
QA Engineers	Test execution and defect logging
Automation Engineer	Regression automation
Developers	Defect fixing
Product Owner	Requirement validation

12. Test Schedule (High-Level)

Phase	Duration
Test Planning	3 Days
Test Design	7 Days
Test Execution	15 Days
Regression Testing	5 Days
UAT Support	5 Days
Test Closure	2 Days

13. Assumptions

- Test environment will remain stable
- Defects will be fixed within agreed SLAs

- No major scope changes after test freeze
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14. Approval

Name	Role	Signature	Date
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QA Manager QA

Product Owner Busines
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Project Delivery
Manager