



Test Plan: Airline Ticketing System

Project Name: Airline Ticketing System

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Version: 1.0

Test Plan ID: TP-ATS-2025-01

1. Objective

The objective of this test plan is to define the scope, approach, resources, and schedule of testing activities for the Airline Ticketing System. The goal is to validate the functionality, usability, responsiveness, and stability of both the web and mobile applications used for searching, booking, and managing airline tickets.

2. Scope of Testing

In Scope:

- Flight Search (One-way, Round-trip, Multi-city)
- Seat Selection
- Payment Gateway Integration (Credit Card, PayPal)
- Booking Confirmation and Email Notification
- API Validations
- Mobile Compatibility (iOS & Android)
- Localization Testing (EN, DE, ES)

Out of Scope:

- Third-party loyalty system integration (currently under maintenance)
- Backend airline inventory management systems

3. Test Approach

Manual and automated functional testing will be conducted using a combination of desktop and mobile platforms. Each module will be validated using positive and negative test cases, followed by regression testing for previously identified bugs.

Types of Testing:

- Functional Testing
- Regression Testing
- Smoke Testing
- UI/UX Testing
- API Testing (Postman)
- Cross-browser Testing
- Localization Testing
- Mobile Responsiveness

4. Test Environment

- **Web:** Chrome, Firefox, Safari (Mac/iOS), Edge
- **Mobile:** Android (Chrome), iOS (Safari, Chrome)
- **Tools:** Jira, Postman, Confluence, BrowserStack, Charles Proxy
- **API Environment:** REST APIs via Postman
- **Test Data:** Predefined passenger data, payment test accounts

5. Test Deliverables

- Test Plan
- Test Cases (Functional, Regression)
- Test Execution Report
- Bug Reports
- Final Test Summary Report

6. Test Schedule

Phase	Start Date	End Date
Test Planning	May 10	May 10
Test Case Design	May 10	May 11
Test Execution	May 11	May 12
Bug Logging & Retesting	May 12	May 13
Final Report Submission	May 13	May 14

7. Resources

Role	Name
QA Engineer	Oksana Galagovets
QA Lead	[Team Lead]
Developer	[Assigned Dev]
Product Manager	[Product Owner]

8. Risk & Mitigation

Risk	Mitigation Strategy
Seat map rendering issues on mobile browsers	Prioritize cross-browser testing
Email delivery inconsistencies	Include multiple test email clients
Locale-specific payment method failures	Test all locales with predefined scenarios
Third-party integration downtime	Mock or stub services as needed

9. Entry Criteria

- Development for target features is complete
- Test environment is stable and available
- Test data is prepared

10. Exit Criteria

- All planned test cases executed
- Critical and High severity bugs fixed and retested
- Test Summary Report reviewed and approved