# **Test Plan Document for Airline Application**

## 1.Test Plan Identifier

TestPlan Airline

#### 2. Introduction

This test plan outlines the testing strategy for the Airline Application. The objective is to validate the functionalities including flight search, booking, payment, cancellations, check-in, and user account management.

## 3. Objectives and Tasks

- Verify all core modules work as expected.
- Ensure smooth user experience across devices and platforms.
- Validate business rules for booking and pricing.
- Test integration with payment gateways, airline inventory systems, and third-party APIs.
- Test edge cases and exception handling.

### 4. Scope

#### In Scope:

- Flight search (one-way, round-trip, multi-city)
- Booking and seat selection
- Payment processing
- Cancellation and refund
- Online check-in

## 5. Test Strategy

- Unit Testing: Done by developers.
- Integration Testing: Test interfaces with payment gateways, airline APIs.
- System Testing: End-to-end scenarios including all modules.
- Regression Testing: After each deployment.
- **UAT:** By business Owners.
- Performance Testing: Stress and load testing using tools.

### 6. Test Criteria

- Entry Criteria: All development is completed, test environment is ready, test cases reviewed.
- Exit Criteria: All critical test cases pass, major bugs resolved, sign-off obtained.

#### 7. Test Environment

- Web and Mobile platforms
- Browsers: Chrome, Firefox, Safari, Edge
- Mobile OS: iOS, Android

## 8. Roles and Responsibilities

- **Test Manager:** Oversee testing, manage resources
- Test Engineers: Write and execute test cases

• **Developers:** Fix bugs, unit test

• Business Analyst: Review test coverage

## 9. Schedule

Phase	Start Date	End Date
Test Planning	May 8	May 10
Test Design	May 11	May 15
Test Execution	May 16	May 28
Bug Fix & Retest	May 29	June 5
UAT	June 6	June 12
Final Sign-off	June 13	June 15

# 10. Risks and Mitigations

Risk: Payment gateway downtime
 Mitigation: Use mock/stub environment for testing

• Risk: Delay in test environment setup

Mitigation: Set up parallel test environments early