**Test Plan: Airline Registration System**

**1. Test Plan ID:** TP-01  
**2. Project Name:** Airline Reservation and Registration System  
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**4. Date:** [10-05-2025]

### 5. Introduction

This test plan outlines the testing strategy for the Airline Registration System. It ensures that the registration feature works correctly for all users including passengers and agents, providing a seamless and secure experience.

### 6. Objectives and Tasks

**Objectives:**

* To verify that new users can register successfully.
* To validate data entry, error handling, and backend integration.
* To ensure compliance with user experience and security standards.

**Tasks:**

* Identify test scenarios and cases.
* Perform functional and non-functional testing.
* Report and track bugs.
* Confirm fixes and retest.

### 7. Scope

**In Scope:**

* Passenger account registration
* Email verification and activation
* Input validation (e.g., passport number, phone number)
* Integration with backend API/database
* UI responsiveness and accessibility

**Out of Scope:**

* Post-registration features (e.g., booking, payments)

### 8. Test Types

* **Functional Testing**
* **UI/UX Testing**
* **Validation Testing**
* **Security Testing**
* **Performance Testing**
* **Cross-browser Testing**
* **Mobile Responsiveness Testing**

### 9. Test Environment

* **Frontend:** Web and Mobile Browsers
* **Backend:** REST API, Database
* **Tools:** Selenium, Postman, JMeter, BrowserStack

### 10. Test Scenarios

| **ID** | **Test Scenario** | **Expected Result** |
| --- | --- | --- |
| TS01 | User registers with valid data | Account created, verification email sent |
| TS02 | User registers with missing fields | Error messages displayed |
| TS03 | User enters invalid email | Email validation error shown |
| TS04 | Duplicate email registration | System prevents duplicate registration |
| TS05 | Verify email link functionality | Account activates after verification |
| TS06 | Registration form responsiveness | Form adapts to various screen sizes |
| TS07 | API returns appropriate status codes | Success (200), validation errors (400), server error (500) |
| TS08 | SQL injection or script tags in input | Inputs sanitized and not executed |
| TS09 | Page load time during registration | Page loads under 2 seconds |
| TS10 | Browser compatibility | Works on Chrome, Firefox, Safari, Edge |

### 11. Entry and Exit Criteria

**Entry Criteria:**

* Registration module is deployed to test environment
* Test data is prepared
* Test accounts are available

**Exit Criteria:**

* All major test cases passed
* All critical bugs fixed
* Regression tests completed

### 12. Deliverables

* Test Plan Document
* Test Cases and Test Scripts
* Bug Reports
* Test Summary Report

### 13. Risks

* Delays in backend API integration
* Incomplete test data
* Security loopholes in early releases