**✈️ Airline Application Test Plan**

**1. Test Plan Identifier**

* **Document Title**: Airline Application Test Plan
* **Version**: 1.0
* **Date**: [Insert Date]
* **Author**: [Insert Name]

**2. Introduction**

This document outlines the test strategy and approach for validating the airline application, which includes features such as flight booking, ticket management, customer service, and backend operations.

**3. Objectives and Tasks**

**Objectives:**

* Validate functionality of core modules (e.g., booking, cancellations, check-in).
* Ensure performance under load.
* Test system compatibility across devices and browsers.
* Verify data integrity and security.

**Tasks:**

* Requirement analysis
* Test case design
* Environment setup
* Test execution
* Defect tracking
* Test reporting

**4. Scope**

**In Scope:**

* Flight search and booking
* Payment gateway
* Ticket cancellation and rescheduling
* Loyalty points/rewards
* Check-in and boarding pass generation
* Admin panel functions

**Out of Scope:**

* Third-party API reliability
* Airline crew scheduling system

**5. Test Strategy**

**Types of Testing:**

* **Functional Testing**
* **Regression Testing**
* **Integration Testing**
* **System Testing**
* **User Acceptance Testing (UAT)**
* **Performance/Load Testing**
* **Security Testing**
* **Cross-platform Testing (Mobile, Web)**

**6. Test Environment**

* **Web**: Chrome, Firefox, Safari, Edge
* **Mobile**: Android (10+), iOS (13+)
* **Backend**: API testing using Postman/Swagger
* **Tools**: Selenium, JMeter, Appium, Jira, TestRail

**7. Test Deliverables**

* Test Plan Document
* Test Cases and Test Data
* Test Scripts (for Automation)
* Test Summary Report
* Defect Reports
* Final Sign-off Document

**8. Entry and Exit Criteria**

**Entry Criteria:**

* Requirements are finalized and approved
* Test environment is ready
* Test data is prepared

**Exit Criteria:**

* All critical test cases passed
* No high-severity defects open
* Test summary report submitted

**9. Roles and Responsibilities**

| **Role** | **Responsibility** |
| --- | --- |
| Test Manager | Overall test planning and coordination |
| QA Lead | Managing the QA team |
| Test Engineers | Writing and executing test cases |
| Automation Engineer | Scripting and maintaining test scripts |
| DevOps | Environment setup and support |

**10. Schedule**

| **Phase** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Planning | [Date] | [Date] |
| Test Design | [Date] | [Date] |
| Test Execution | [Date] | [Date] |
| UAT | [Date] | [Date] |
| Closure & Reporting | [Date] | [Date] |

**11. Risks and Mitigation**

| **Risk** | **Mitigation Strategy** |
| --- | --- |
| Last-minute requirement changes | Agile/iterative test planning |
| Delay in environment setup | Parallel planning with DevOps |
| High volume of test data requirement | Automate data generation |
| External API downtime | Use mocks and simulate responses |

**12. Approvals**

| **Name** | **Role** | **Signature** | **Date** |
| --- | --- | --- | --- |
| [Test Manager] | QA Lead |  | [Insert] |
| [PM] | Project Manager |  | [Insert] |

Would you like me to generate detailed **sample test cases** for a specific module like booking or payments?

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