**Test Plan for Airline Booking App**

**Introduction -**

The test plan outlines the strategy and scope for testing the Airline Booking Application. The app allows users to search, book, manage, and cancel airline tickets, as well as handle payments and user profiles.

**Test Plan Id. -**

TP ABA-01

**Objectives -**

1. Ensure the application meets functional requirements.
2. Verify the performance, usability, and security.
3. Identify and resolve defects before release.

**Scope** -

User registration and login.

Flight search

Booking tickets

Payment processing

Ticket cancellation and refund

Mobile and Web response of the app

**Test Types**

Functional Testing – Validate app features (search, book, cancel)

Security Testing – Validate user data protection and session security

Regression Testing – Re-check existing features after updates

UI/UX Testing – Check layout, flow, and responsiveness

Performance Testing – Ensure app handles load under stress ( eg. for 10000 Users at a time)

**Test scenarios**

specific functionality or features to be tested

**Test Scenario 1: User sign-up, login, logout**

Description- Verify that a User Can Signup, Login and Logout

Steps-

1. Open the app/Webpage
2. Emter User details i.e Name, mail id, Mob Ph Number in case of new user to sign up,
3. Entre Sign up

Expected Result - User Should be able to Sign in in case of existing user it should give a response as user already exists sign in please

**Test Scenario 2: Search for Available Flights**

Description: Verify that a user can search for available flights by entering origin, destination, travel dates, and number of passengers.

Steps:

1. Open the flight search page
2. Enter "From" and "To" locations
3. Select departure and return dates ( In case of return journey or can only slect departure date).
4. Choose number of passengers
5. Click "Search"

Expected Result - A list of available flights matching the criteria to be displayed.

**Test Scenario 3: Book a One-Way Flight**

Description: Validate that a user can book a one-way flight.

Steps:

1. Search for flights
2. Select a one-way flight
3. Enter passenger details
4. Choose payment method and confirm booking

Expected Result - Booking confirmation with ticket and Booking id is generated.

**Test Scenario 4 : Make a Payment**

Description: Validate that a user can successfully make a payment by all methods i.e Credit Card, Debit Card, UPI, Net banking etc.

Steps-

1. Proceed to payment after selecting a flight
2. Select a Payment Method – eg. Credit Card, Debit Card, UPI, Net banking etc.
3. Enter Card Details in case of Credit/ Debit card or upi id in case of UPI
4. Select Submit

Expected Result User will get a reference transection id. And Booking status should changed to booked with preferred seat numbers.

**Test Scenario 5: Cancel a Booked Ticket**

Description: Verify that a user can cancel a previously booked flight.

Steps

1. Log in to user account
2. Go to "My Bookings"
3. Select a booking
4. Click "Cancel" and confirm

Expected Result - Ticket is canceled and refund status is shown.

**Test Environment**

1. Browsers
2. Mobile Phones (Ios, Android)

**Deliverables**

1. Test Cases
2. Bug Reports

**Approach –** In Case any update from Devlopers end we need a testing approach below

1. Smoke Testing
2. Re-Testing
3. Regression Testing
4. Sanity Testing

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