**Use Case Title: Browse Available Flights**

**Nouns:**

* User
* System
* Destination
* Flight List
* Available Flight
* Seat Map
* Error Message

**Use Case Scenario:**

1. Search Flights:
   * User lands on the homepage.
   * System provides input fields: "Flight Origin," “Flight Destination”, and "Date”.
2. Enter Flight Details:
   * User enters “New York” in "Flight Origin," “Los Angeles” in “Flight Destination,” and “12/24/2023” in "Date.”
3. Find Flights:
   * User clicks "Search."
   * System retrieves and displays a list of available flights, including details like flight times, duration, and available seat classes.
4. Select Flight:
   * User reviews flight options and chooses an Available Flight based on their preference.
5. View Seat Map:
   * System displays the graphical Seat Map for the selected flight, showing available and occupied seats in different classes (Ordinary, Comfort, Business-Class).
6. Choose Seat:
   * User selects an available seat based on availability and seat class, e.g., “A12.”
   * System updates seat map and confirms the selection.
   * The system should display the price difference, if any, based on the selected seat class.
7. Additional Options:
   * User is offered the choice to select ticket cancellation insurance.
   * Registered users get the option to use special offers like airport lounge access or free companion tickets.
8. Cancelation Option (Post-booking):
   * System provides an option for the user to cancel their flight as per the cancellation policy.

**User Registration Use Case:**

**Nouns:**

* User
* System
* First Name
* Last Name
* Birth Date
* Email/Username
* Password
* Confirmation Page
* Email Service

**Use Case Scenario:**

* John selects the option to “Register” on the Airline Reservation System.
* The System displays input fields for: “First Name”, “Last Name”, “Birth Date”, “Email (Username)”, “Password”.
* John enters his details: “John”, “Doe”, “01/01/1980”, “[john.doe@airlinereservation.com](mailto:john.doe@airlinereservation.com)”, “securepassword456”.
* John selects the option to “Create Account”.
* The System verifies the uniqueness of the email and the validity of all other fields.
* The System creates a new user profile in the Airline Database.
* The System displays a confirmation page indicating successful registration.
* The Email Service sends a welcome email to John.

**Login Use Case:**

**Nouns:**

* User
* System
* Email/Username
* Password
* Credential Entry Page
* Application Landing Page

**Use Case Scenario:**

* John selects the “Login” option on the Airline Reservation System.
* The System presents a credential entry page with fields for: “Email (Username)” and “Password”.
* John inputs his credentials: “[john.doe@airlinereservation.com](mailto:john.doe@airlinereservation.com)” and “securepassword456”.
* John selects “Confirm Login”.
* The System checks the credentials against the Airline Database and either moves John to the Application Landing Page or shows an error message if the credentials are invalid.

**Payment Transaction Use Case:**

**Nouns:**

* User
* System
* Payment Method
* Credit/Debit Card
* Name on Card
* Card Number
* Card Expiration Date
* CVV
* Payment Confirmation Page
* Email Service

**Use Case Scenario:**

* The User selects their Payment Method on the booking confirmation page.
* The System prompts for payment details: “Credit/Debit”, “Name on Card”, “Card Number”, “Card Expiration Date”, “CVV”.
* The User enters their payment information: “Debit”, “John Doe”, “1234 5678 9012 3456”, “12/2025”, “321”.
* The User selects “Confirm and Pay”.
* The CreditCard\_SerUsevice validates and processes the payment.
* The System receives a payment confirmation and logs the transaction in the Airline Database.
* The System displays a payment receipt to the User.
* The Email Service sends the payment receipt to the User’s email.