FUNCTIONALITY

In an **Airline Management System** for a college project, the core functionality usually revolves around managing flight operations, passenger details, and ticket booking systems. Here's a breakdown of the key functionalities you can include in your project:

**1. Flight Management**

* **Add Flights**: Admins can add new flights to the system with details like flight number, source, destination, departure time, arrival time, and available seats.
* **Update Flight Details**: Modify existing flight information such as timings, status (on-time, delayed, or canceled), or available seats.
* **Delete Flights**: Remove flights that are no longer operational.

**2. Passenger Management**

* **Add Passenger**: Store passenger details like name, contact information, ID proof, and passport number (if international flights are involved).
* **View Passenger Details**: View details of passengers for a specific flight or booking.
* **Update Passenger Information**: Passengers can update their details, such as contact information.

**3. Ticket Booking and Reservation System**

* **Book a Ticket**: Passengers can book a ticket for a selected flight by providing personal details and selecting a seat.
* **View Ticket**: Passengers can view their ticket details after booking, including the flight number, seat number, and travel date.
* **Cancel Reservation**: Allow passengers to cancel their booking and refund the payment if applicable.
* **Seat Selection**: Enable passengers to choose specific seats based on availability.

**4. Flight Status and Schedule**

* **Check Flight Status**: Allow passengers to check the status of their flight (on-time, delayed, or canceled).
* **View Flight Schedule**: Provide a list of available flights between two cities with their timings.

**5. Admin Management**

* **Admin Login**: A separate login interface for the admin to manage flights and passengers.
* **Manage System Data**: Admin can update or delete flights, manage bookings, and generate reports.

**6. Payment Management**

* **Fare Calculation**: Calculate the fare for the flight based on class (economy, business, etc.) and other factors like additional luggage.
* **Payment Gateway Integration**: Provide payment options for ticket bookings.
* **Refund System**: Handle refunds for canceled tickets.

**7. Security Features**

* **User Authentication**: Provide login features for passengers and admins to secure access.
* **Data Validation**: Ensure data like passport numbers, email IDs, and contact details are validated during input.