**Project Report**

**Airline Reservation System**

**Overview**

The Airline Reservation System is a python-based program that helps manage flights and passengers and reservation. It allows users to add flights, book tickets, cancel tickets, and save or view passengers and flight details.

**Main Components**

**1-Passengers:**

* Economy Class: Basic Seating with specific criteria.
* Business Class: Luxury Seating.
* First Class: Includes special services.

**2-Flights:**

* Each flight has a flight number, origin, destination, capacity and passenger list.
* Passengers are added or removed, ensuring the capacity limit is repeated.

**3-Reservation:**

* Manages the list of flights and provides method to add flights, show available flights, book and cancel tickets.

**4-File Handling:**

* Data is saved in CSV Files(passenger.csv) and (flight.csv).

**5-Main Menu:**

* **Add Flight:** Enter flight details to add a new flight.
* **View Flights:** Display all available flights.
* **Book Ticket:** Assign a passenger to a flight.
* **Cancel Ticket:** Remove a passenger from a flight.
* **View Data:** Open saved CSV file of passenger and flights.
* **Exit:** Closing the program.

**How it Works?**

**1.Add Flights:**

* Input the flight number, origin, destination. Flights are saved.

**2.Book Tickets:**

* Add a passenger by providing their details (name, age, passport number, and class).

**3.Cancel Tickets:**

* Remove a passenger from a flight by entering their passport number.

**4.Save Data:**

* All flights and passenger details are saved in CSV Files.