Flight Booking System

Introduction

The provided Python script implements a **Flight Booking System** using the Flask framework and Appwrite services. It includes functionalities for managing flights, searching available routes, booking tickets, and uploading files, all while ensuring an interactive API for frontend integration.
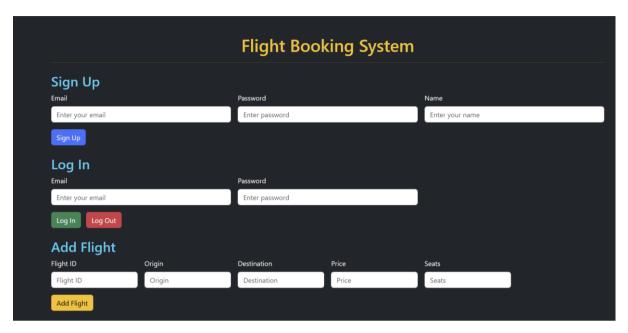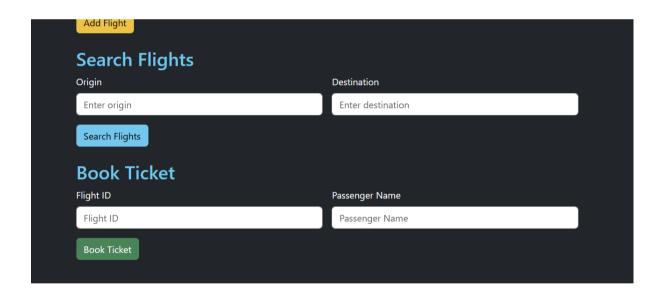
Requirements

1. Python (3.x)

2. Flask (Web framework)

3. Flask-CORS (To handle cross-origin requests)

4. Appwrite SDK (To integrate Appwrite's backend services)

5. Additional Modules: os, jsonify from Flask

6. Dependencies Setup:

   o Install required libraries using pip:

   o pip install flask flask-cors appwrite
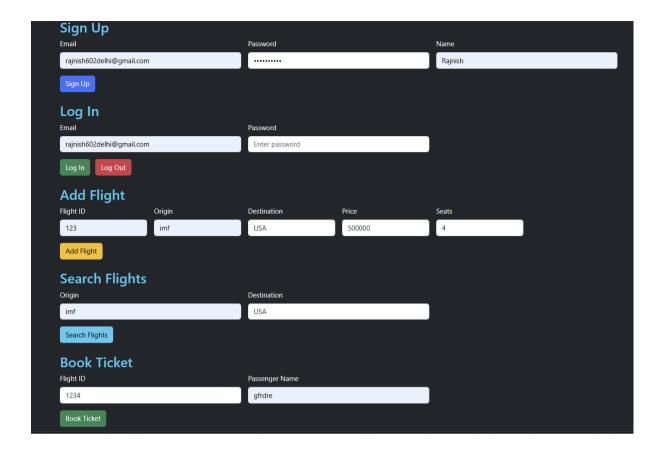
Software Used and Technology

1. **Programming Language**: Python

2. **Backend Framework**: Flask

3. **Database and Storage**:

   o Appwrite's Database and Storage APIs are used for managing flights and file uploads.

4. **Architecture**: RESTful APIs are implemented for flight addition, searching, booking, and listing.

5. **Cross-Origin Resource Sharing (CORS)**: Enables frontend integration from different origins.

Screenshot

Flight Booking System

Sign Up

Email | Password | Name
Enter your email | Enter password | Enter your name

Sign Up

Log In

Email | Password
Enter your email | Enter password

Log In | Log Out

Add Flight

Flight ID | Origin | Destination | Price | Seats
Flight ID | Origin | Destination | Price | Seats

Add Flight

Add Flight

Search Flights

Origin | Destination
Enter origin | Enter destination

Search Flights

Book Ticket

Flight ID | Passenger Name
Flight ID | Passenger Name

Book Ticket

Conclusion

This Flight Booking System is a robust example of integrating modern backend technologies like Flask with Appwrite's cloud infrastructure. It demonstrates essential operations like CRUD, API design, and file management, making it a suitable solution for small to medium-sized travel platforms.