

# 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:
  - Install required libraries using pip:
  - `pip install flask flask-cors appwrite`

## Software Used and Technology

1. **Programming Language:** Python
2. **Backend Framework:** Flask
3. **Database and Storage:**
  - 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.

## 6. Data Structure :

Array and List

Hash Table

Priority Queue

Cache

Graphs

## Screenshot

**Flight Booking System**

**Sign Up**

Email:  Password:  Name:

**Log In**

Email:  Password:

**Add Flight**

Flight ID:  Origin:  Destination:  Price:  Seats:

**Search Flights**

Origin:  Destination:

**Book Ticket**

Flight ID:  Passenger Name:

### Sign Up

EmailPasswordName

rajnish602delhi@gmail.com\*\*\*\*\*Rajnish

Sign Up

### Log In

EmailPassword

rajnish602delhi@gmail.comEnter password

Log InLog Out

### Add Flight

Flight IDOriginDestinationPriceSeats

123imfUSA5000004

Add Flight

### Search Flights

OriginDestination

imfUSA

Search Flights

### Book Ticket

Flight IDPassenger Name

1234gfrdre

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.