ABSTRACT

A flight information display system is a useful tool for airports, airlines, and other organizations involved in the management of flights. The system allows users to view the current status of flights, including their arrival and departure times, as well as any updates or changes to their status. This information can be useful for a variety of purposes, such as planning ground operations, coordinating with other organizations, and providing information to passengers and other stakeholders.

The system typically relies on a database to store and manage the data related to flights and their statuses. The DB can be used to store information such as flight numbers, departure and arrival times, destinations, and airline information. It can also be used to track updates and changes to flight statuses, as well as to store historical data about past flights.

A flight information display system is a useful tool for travelers and other individuals interested in tracking the status of a particular flight. With this system, users can quickly and easily access information about a flight's arrival and departure times, as well as any updates or changes to its status. This can help travelers plan their trips more efficiently and avoid potential delays or disruptions. The flight status display system may also provide other relevant information, such as the flight's destination, the airline operating the flight, and the aircraft type. This report will provide an overview of the various features and functions of a flight status display system, as well as its benefits and potential applications.

TABLE OF CONTENTS

1 INTRODUCTION 1

1.1 TYPES OF USERS 1

2 PROPOSED SYSTEM 2

2.1 SYSTEM DESCRIPTION 2

2.2 SOFTWARE AND FRAMEWORKS 3

3 SYSTEM DESIGN 4

4 USER INTERFACE AND RESULTS 6

5 CONCLUSION 12

6 REFERENCE 13

1 INTRODUCTION

Flight Information Display Systems (FIDS) are critical components of modern airports, providing real-time information to airport staff and passengers about the arrival and departure of flights. FIDS play a crucial role in helping airports operate smoothly and efficiently.

In this project report, we will describe the design and implementation of a DBMS for a flight arrivals and departures display system. The system utilizes a database management system to store and retrieve flight information and has user authentication to ensure that only authorized users can access and modify the data. It is designed to be user-friendly and easy to use, with a clear and intuitive interface.

1.1 Types of Users

ADMIN

- Has full control over the platform. Period maintenance and updating are implemented by them.
- They can create, update and edit flight details on the platform.

REGISTERED USERS

- They add their details to be registered on the platform. This gives them unique IDs, username and passwords which allows them to login and access the system.
- A registered user can check to see which flights are being updated. They can also update flight details of their respective airlines.

VISITORS

- These users can view the all the flight details like arrivals and departures.
- No changes can be made by them

2 PROPOSED SYSTEM

2.1 System Description

The Proposed System for a Flight Information Display System would be a computerized system that displays real-time information about the arrival and departure of flights at an airport. The system would allow users to view the status of flights, including arrival and departure times, gate numbers, and terminal information. It would also allow authorized users to add, update, and delete flights from the database.

The system would utilize a database management system to store and retrieve flight information and would have user authentication to ensure that only authorized users can access and modify the data. The system would be accessible to airport staff and passengers through a user-friendly interface, such as a web application or a kiosk.

The system would be implemented and tested at the airport to ensure that it is reliable and efficient. It would be integrated with the airport's existing systems and processes to ensure seamless operation. The system would also have the capability to generate reports and alerts to help airport staff manage the flow of flights and passengers.

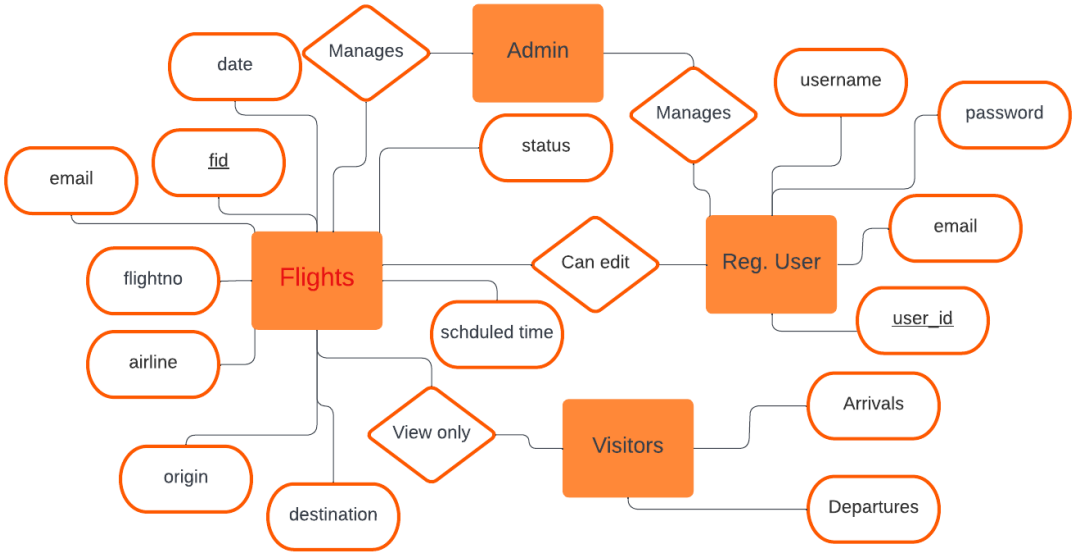
Overall, the Proposed System for a Flight Information Display System aims to provide a convenient and efficient way for airport staff and passengers to access flight information and to improve the overall operation of the airport.

2.2 Software and Frameworks

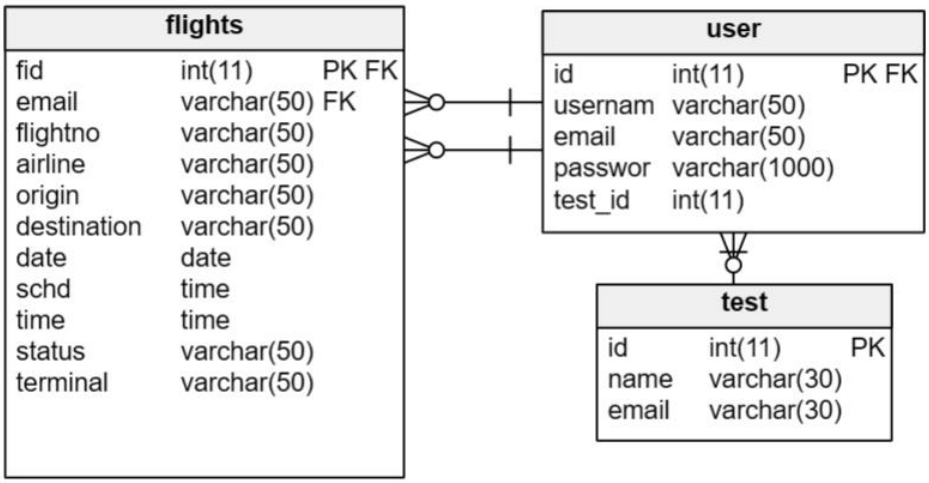
1. Python 3.9 (backend)
2. FLASK Framework (backend framework)
3. HTML, CSS, JavaScript (frontend)
4. Bootstrap 5 Framework (frontend)
5. XAMPP Web Server Solution Stack Package (server)
6. MySQL Relational Database Management System (database)

3 SYSTEM DESIGN

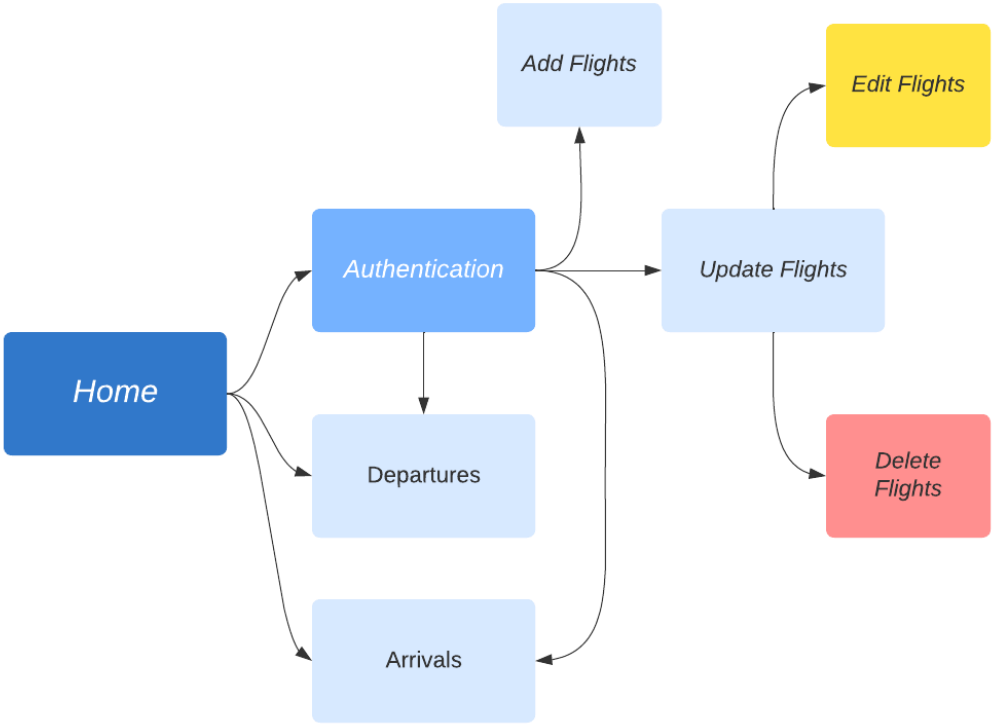
3.1 ER Diagram



3.2 Database Design

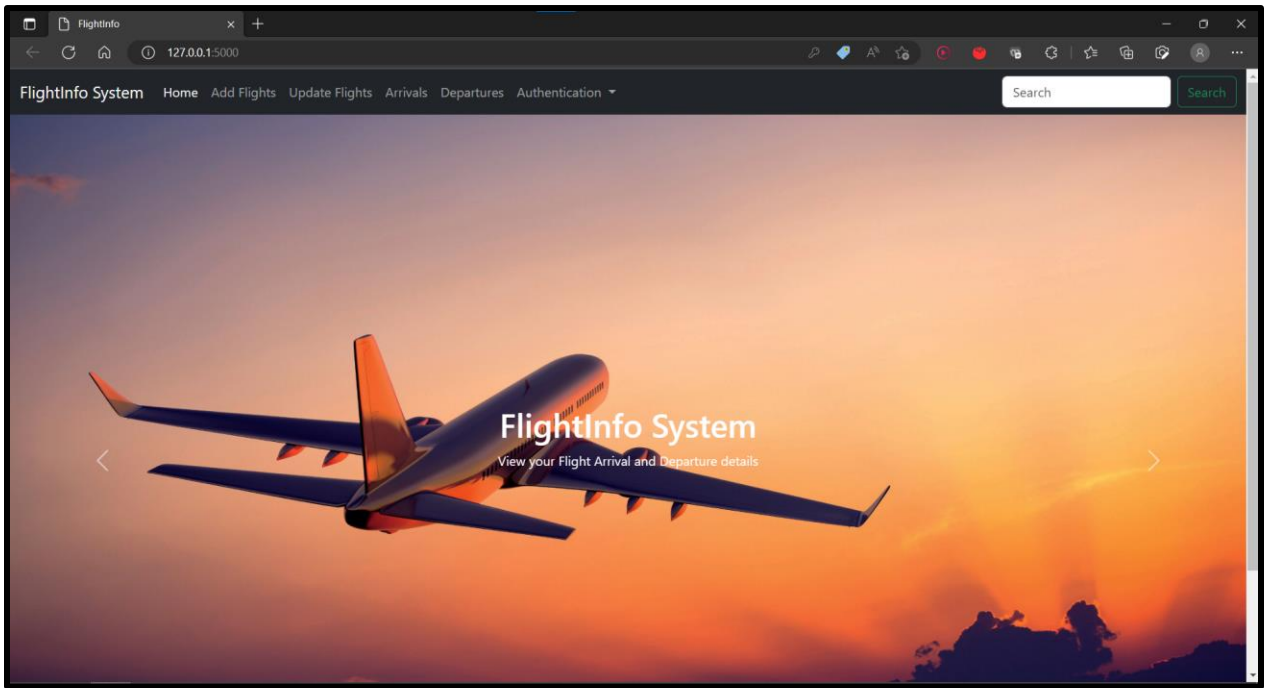


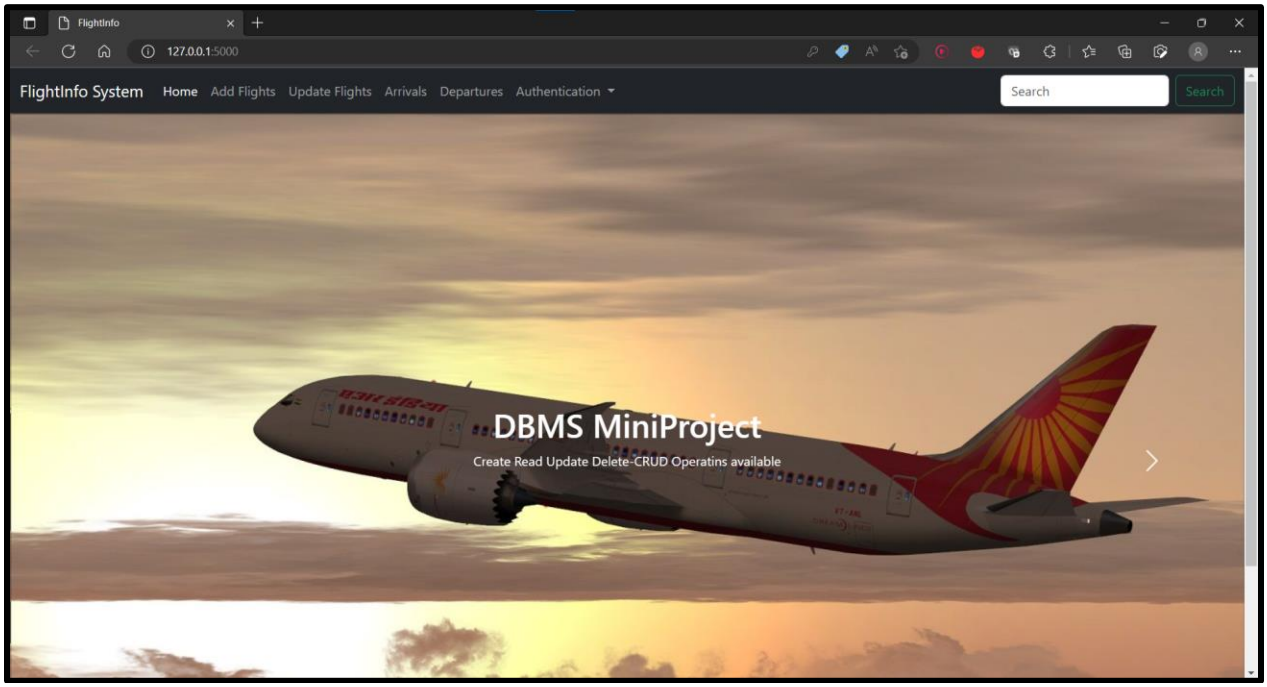
3.3 Module Design



4 USER INTERFACE AND RESULTS

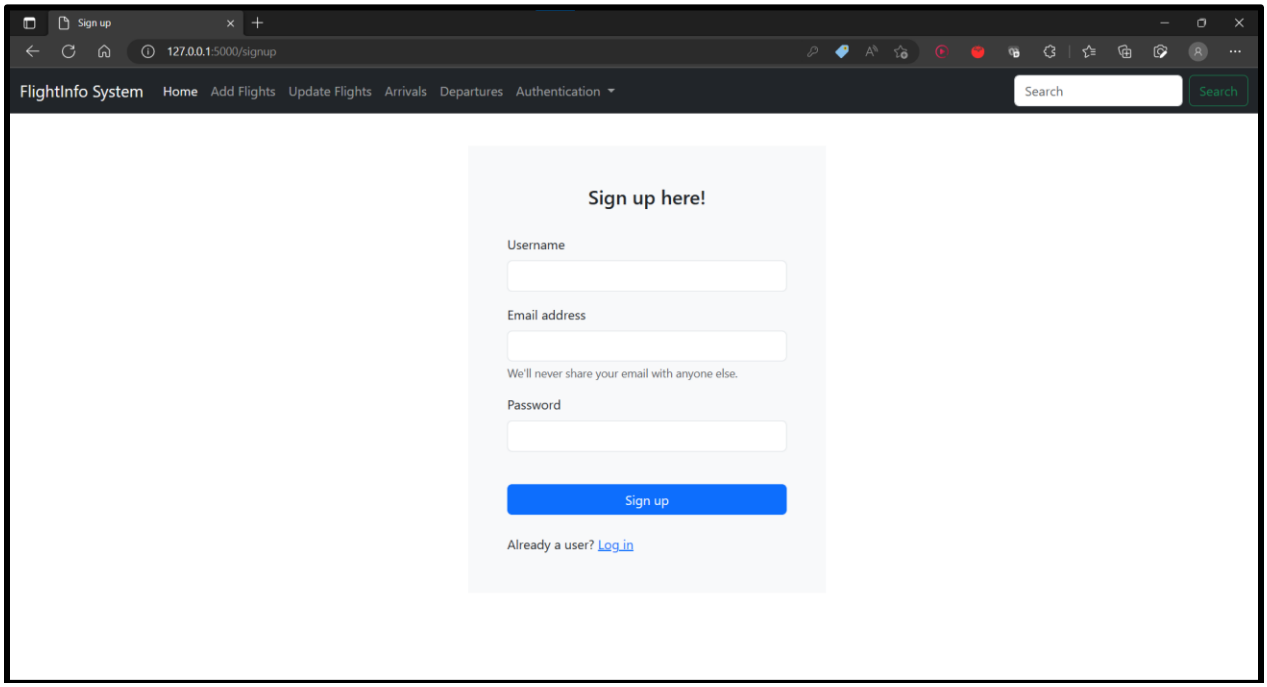
Home Page



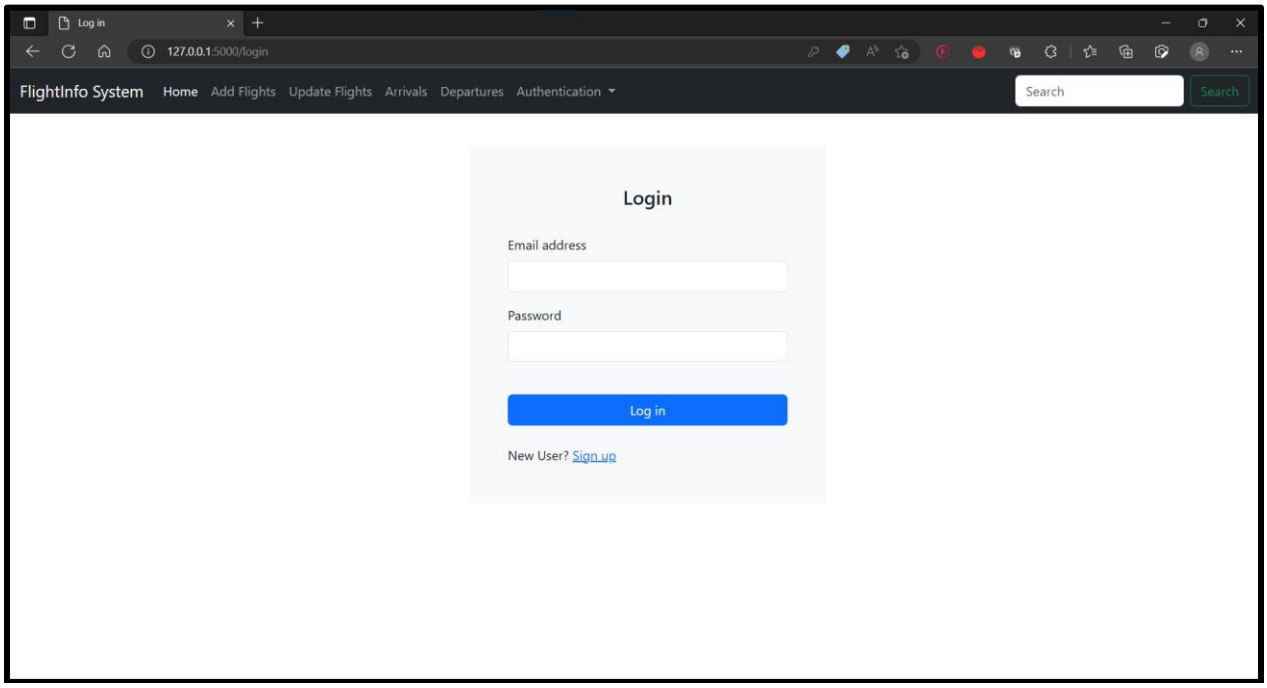


Authentication Page

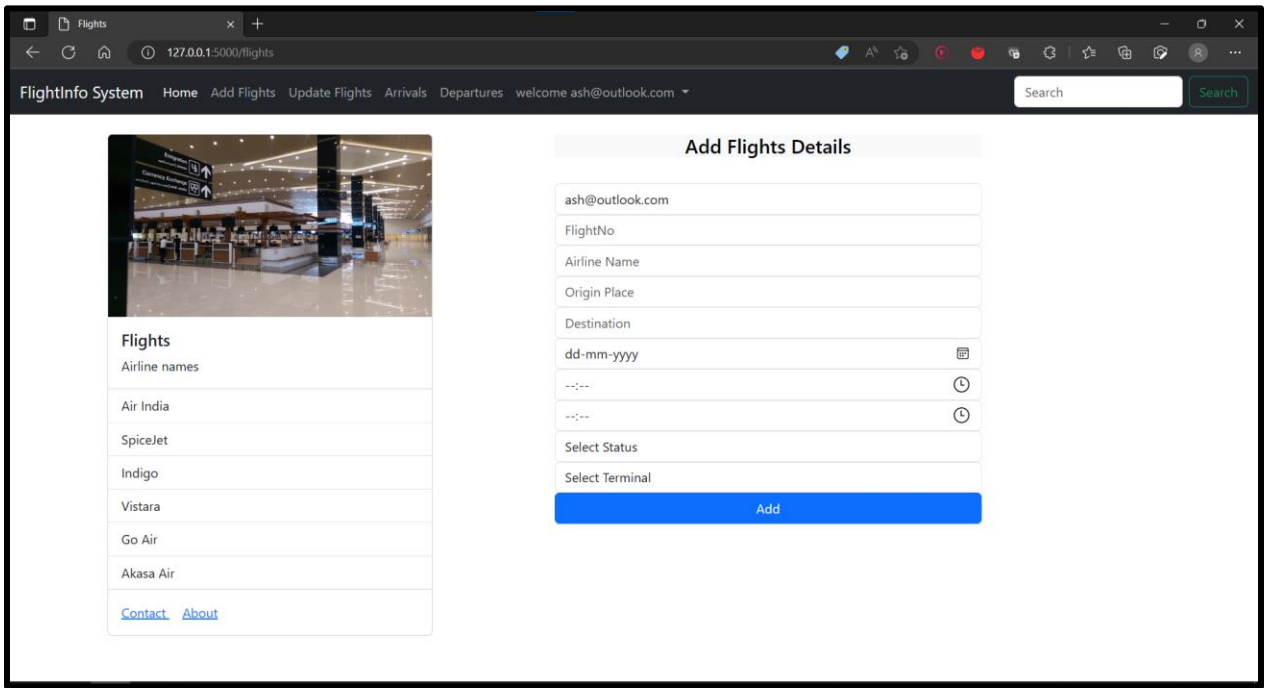
- **Signup**



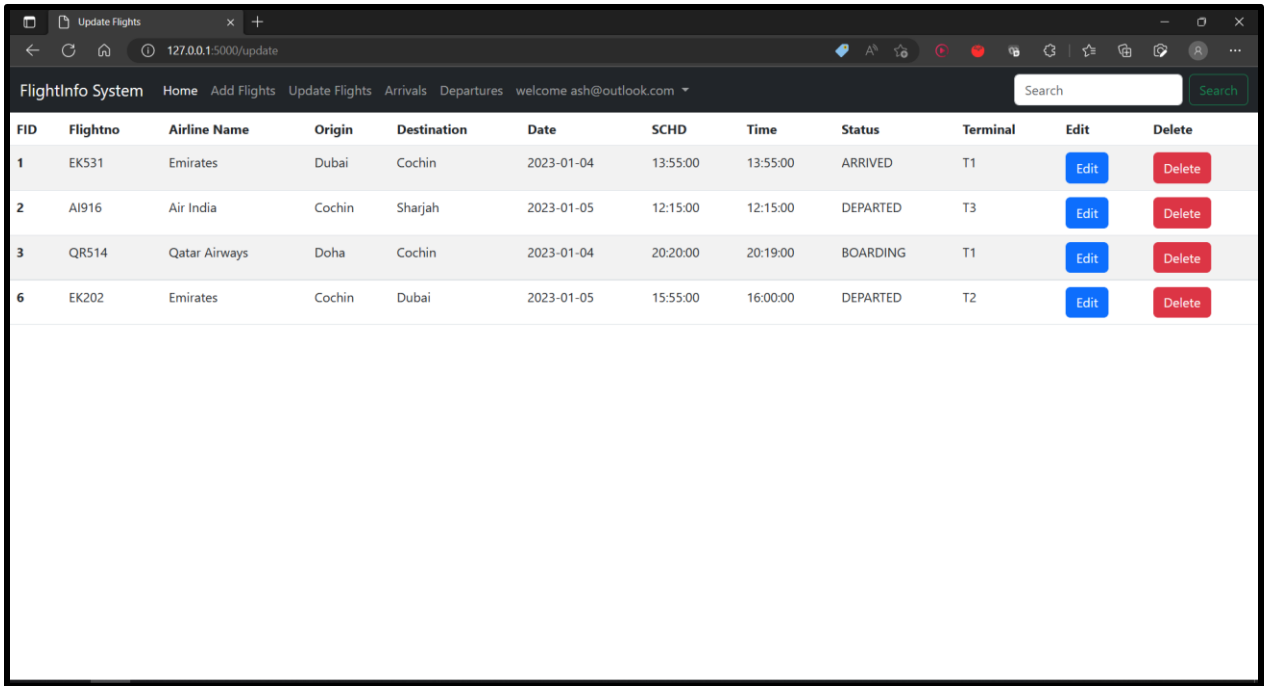
- **Login**



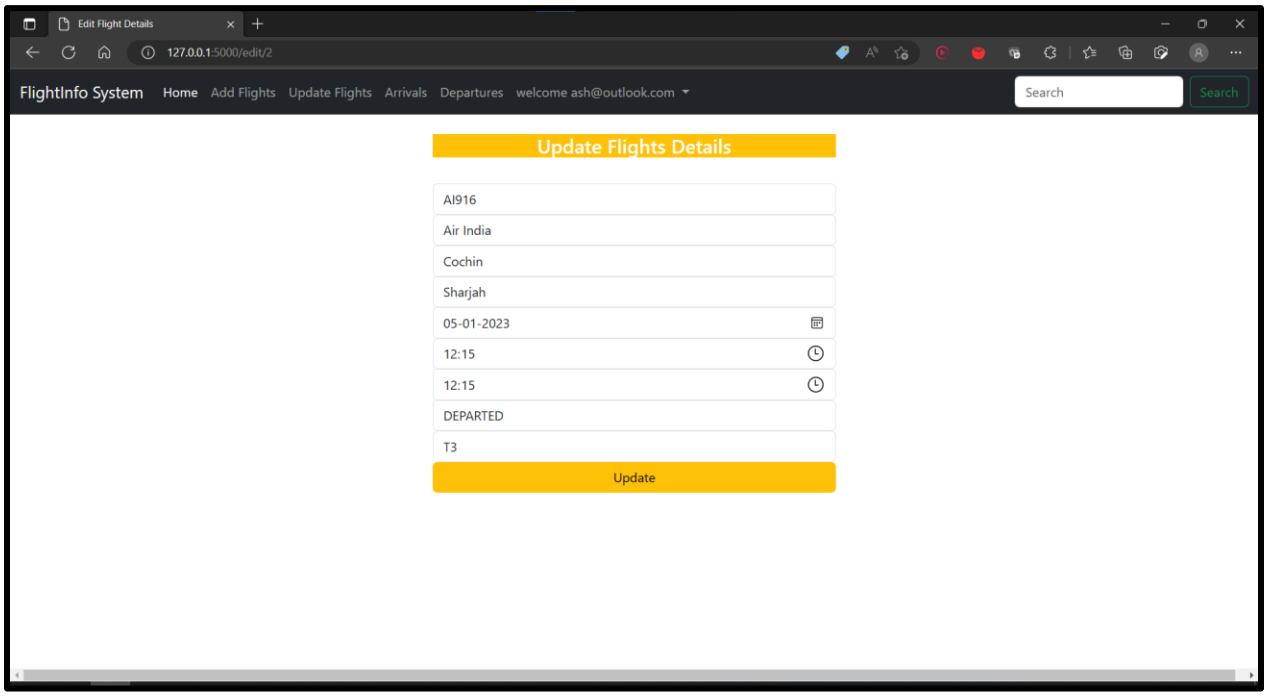
Add Flight Page



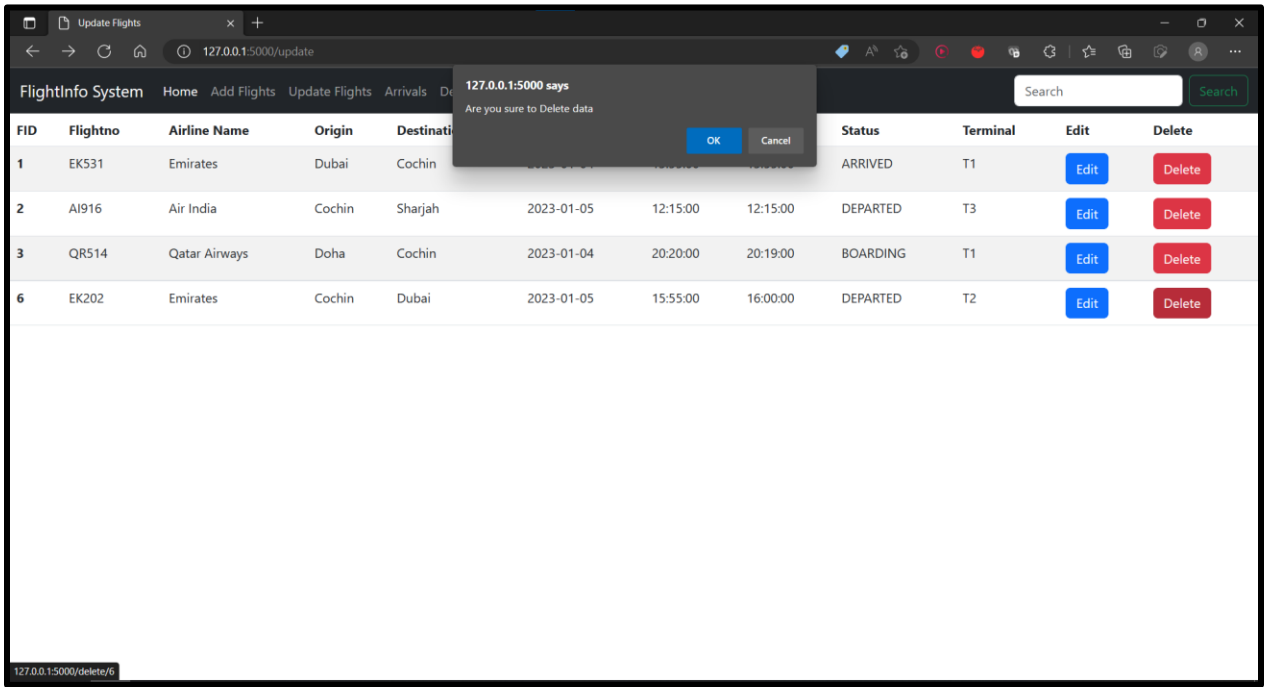
Update Flight Page



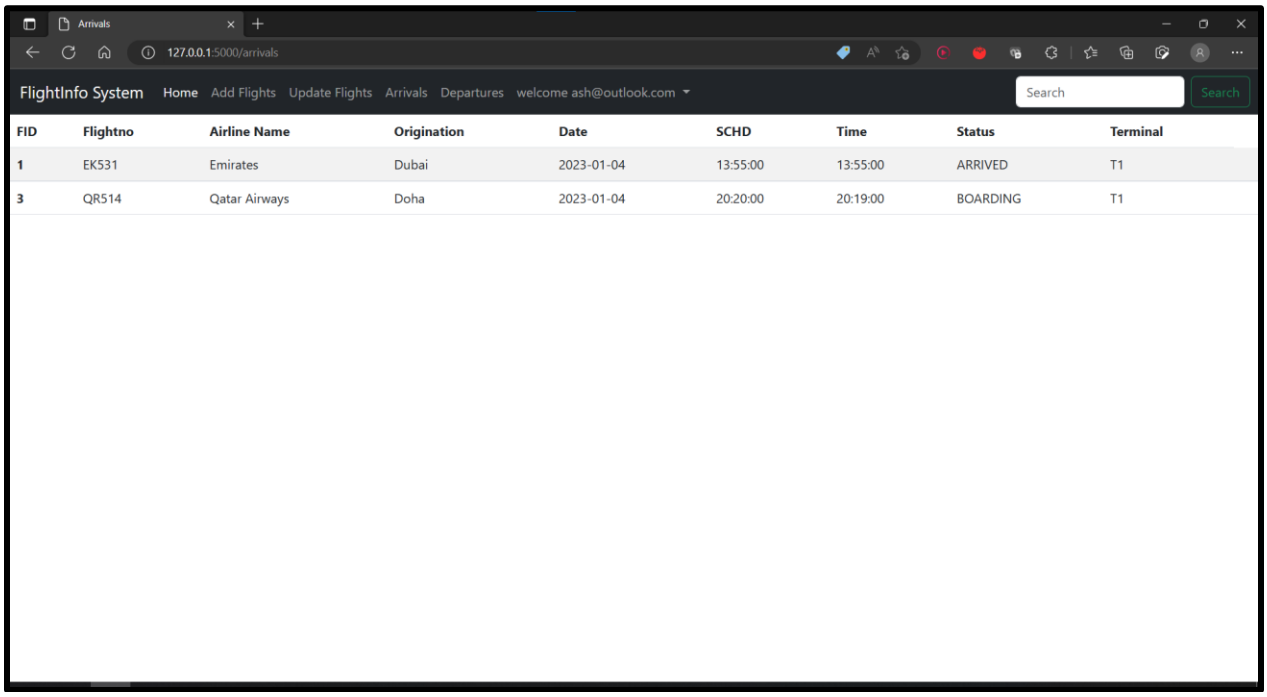
Edit page



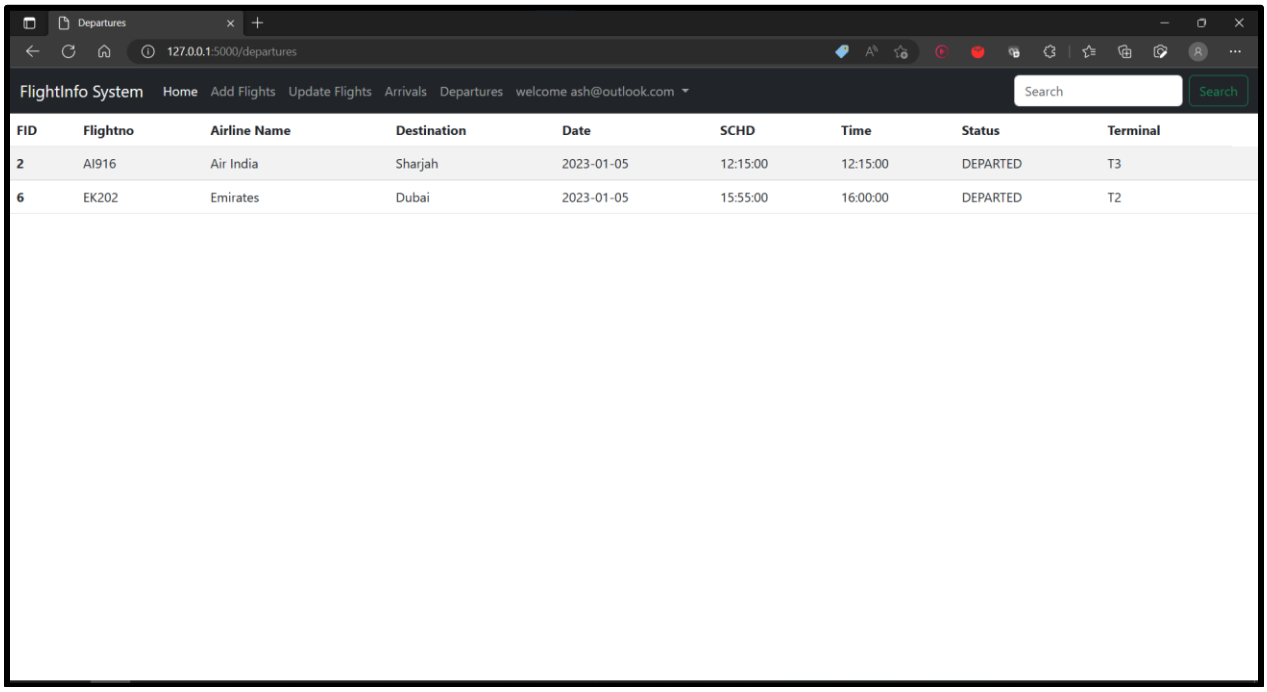
Delete



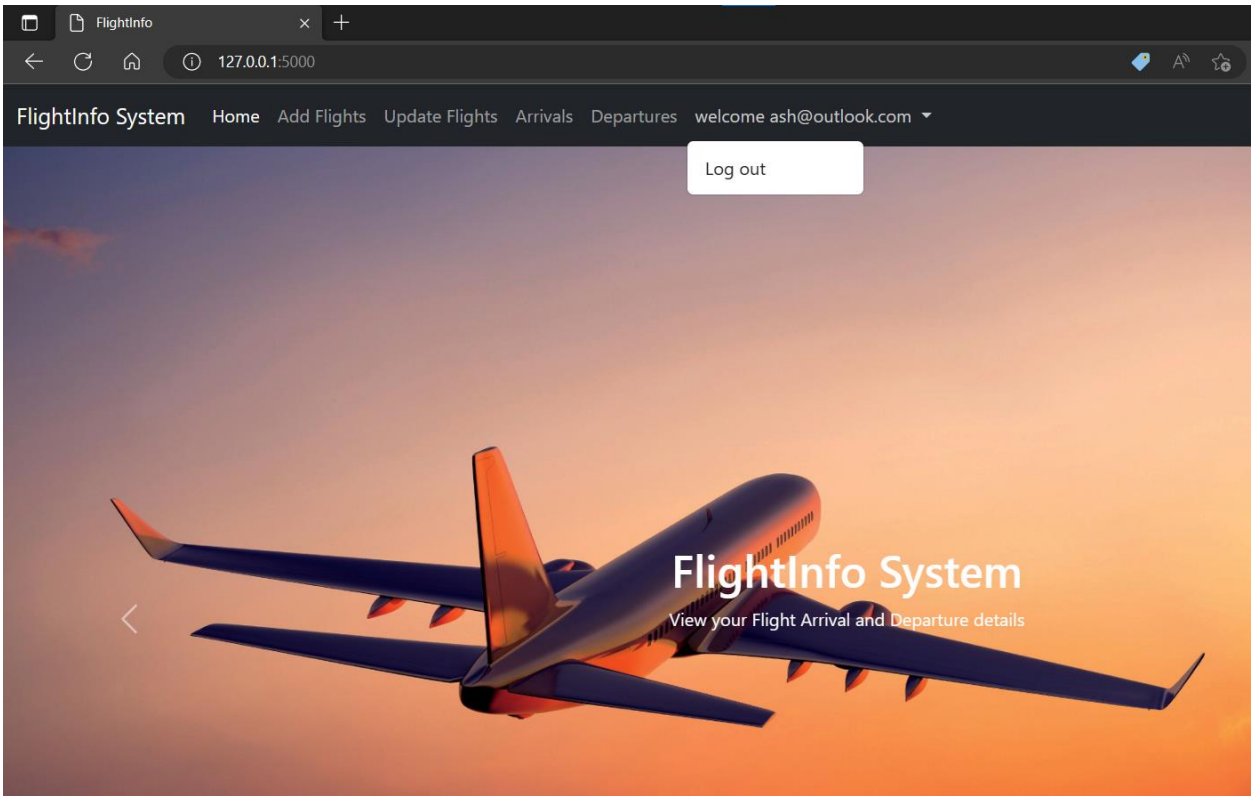
Arrivals page



Departures page



Logout


FlightInfo
127.0.0.1:5000
FlightInfo System
Home
Add Flights
Update Flights
Arrivals
Departures
welcome ash@outlook.com
Log out
FlightInfo System
View your Flight Arrival and Departure details

5 CONCLUSION

A flight information display system (FIDS) is a system that displays flight information to travelers in airports. The purpose of a FIDS is to provide travelers with information about the status of flights, such as departure times, gates, and terminal information.

There are several benefits to implementing a FIDS in an airport. Firstly, it helps travelers plan their time more efficiently by providing accurate and up-to-date information about flight departures and arrivals. Secondly, it helps airport staff manage the flow of passengers by providing information about gate assignments and terminal changes. Finally, a FIDS can help reduce passenger anxiety by providing clear and concise information about flight status and any delays or changes.

Overall, the implementation of a flight information display system can improve the airport experience for both travelers and staff by providing accurate and timely information about flights.

6 REFERENCE

1. "Python MySQL Connector: Connect Python and MySQL" by Tutorials Point. This tutorial provides an overview of the Python MySQL connector library, which allows you to connect Python to a MySQL database. It includes examples of how to perform various operations on a database using the connector.

2. "Python MySQL - Select Data from Table" by W3Schools. This tutorial provides examples of how to query a MySQL database from Python using the SELECT statement.

3. "Bootstrap with Flask" by Giraffe Academy. This tutorial covers how to integrate Bootstrap into a Flask application. It includes examples of how to use Bootstrap components, such as navbars and forms, in a Flask app.

4. YouTube Playlists of ARK PRO CODER Playlists Link : https://www.youtube.com/@ARKPROCODER/playlists