



N027, N043, N051

01

Flight Reservation System

Programming Language
and Database Management
System Project

Academic Year: 2020-21



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Introduction

- The Flight Reservation System Project is a user-friendly desktop application that allows the user to create a personal account on the application, and book tickets to various airlines, keep records of flight schedules and fare tariffs, passenger personal information like name, phone number and their ticket booking records.
- The system's inventory contains all airlines with their available seats, time of arrival and departure and date of arrival and departure.
- The application helps the user to book a flight in an efficient and easy manner at any time possible without going to the airports or booking centres.



Problem Statement

- The Airline Reservation System provides an interface to schedule flights and reservations. Its responsibility is to keep track of the system: users, customers, airline information, client information and cancellation. The functionality of the airline reservation system is broken into various primary groups.
- Customer reservation information and user were added, deleted and updated in the implementation phase of the account for the way we decide to implement security. The user keeps track of the username and password information.



Problem Statement

- Customers also keep track of different Flights Schedule, Flight Status of their upcoming flights and their own bookings. Customers can also easily book a flight for n number of passengers at any time according to the availability of the seats and flights.
- It also provides customers with an FAQ page for their query's and also provided with a 24hr customer service helpline numbers to contact to.



Scope

- This Project designs and implements Air reservation system. This supports a well-designed database with all available air flights information which can be accessed easily through a single point.
- It provides a friendly user interface with various combinations of searching a flight, finding the flight status and schedule, booking a flight etc. that can be fetched by the user and generates corresponding database search statements.
- It provides the best interface between the passengers and the airline workers and supports frequent user registrations and personal information.
- The application can be used by various different airlines and airports for booking systems for better user interaction.



Technical

Hardware:

- Processor: Intel® Core™ i5-82500uU CPU @ 1.60GHz 1.80 GHz
- Installed Ram: 4.00 GB
- System Type: 64-BIT operating system; x64-based processor

Software:

- Windows OS
- Db Browser
- Pycharm
- Python shell



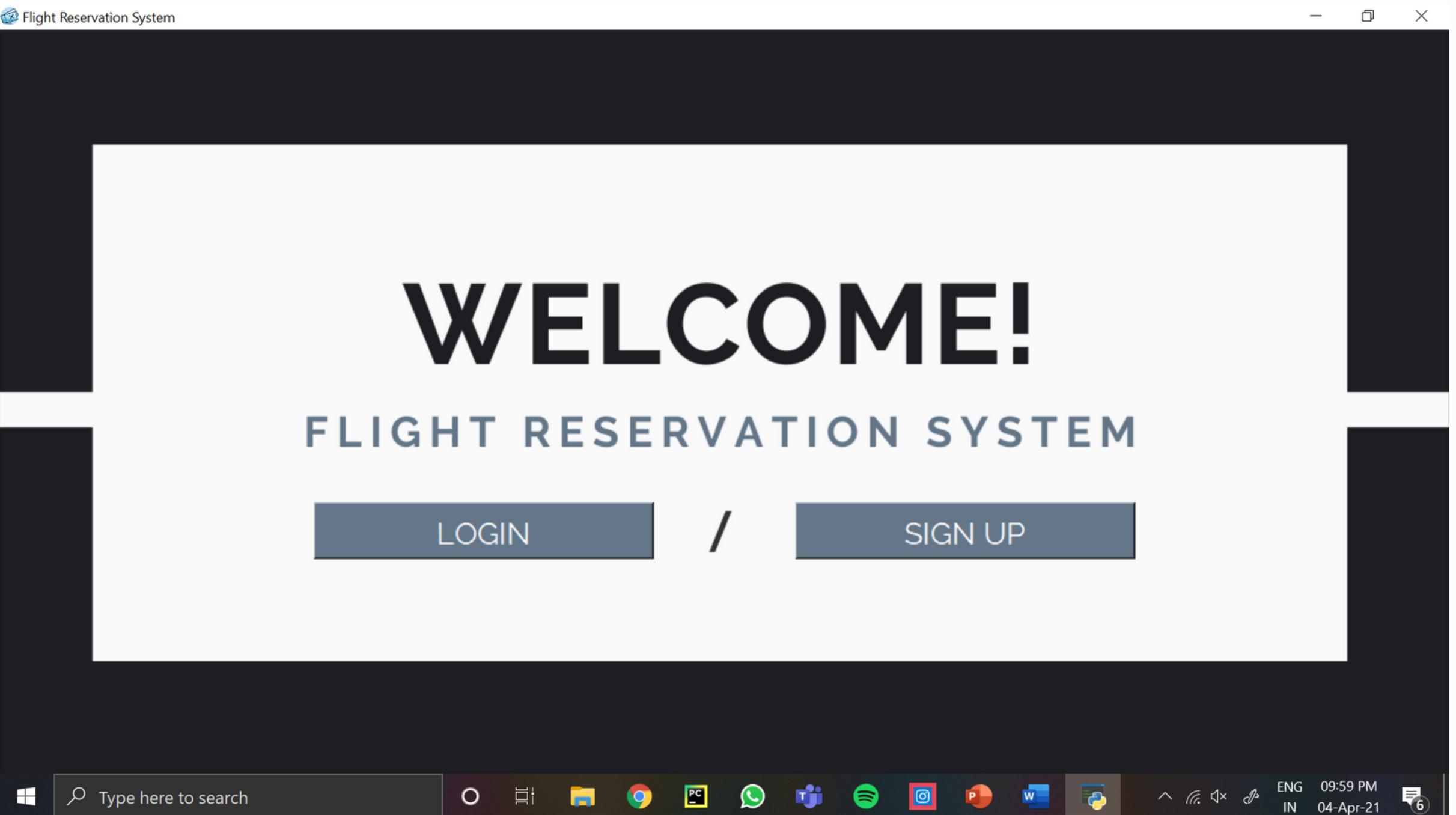
FLIGHT
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Layout





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Layout

Flight Reservation System

Sign Up Here

Flight Reservation System Sign Up

First Name	Last Name
Divya	Sharma
Email	
divyasharma@gmail.com	
Phone Number	Alt. Phone No. (opt)
810804321	
Date of Birth	
4/5/01	
Password	Confirm Password
*****	*****

Already have an account? [Login here.](#)

SIGN UP

Type here to search

ENG 10:02 PM
IN 04-Apr-21 6



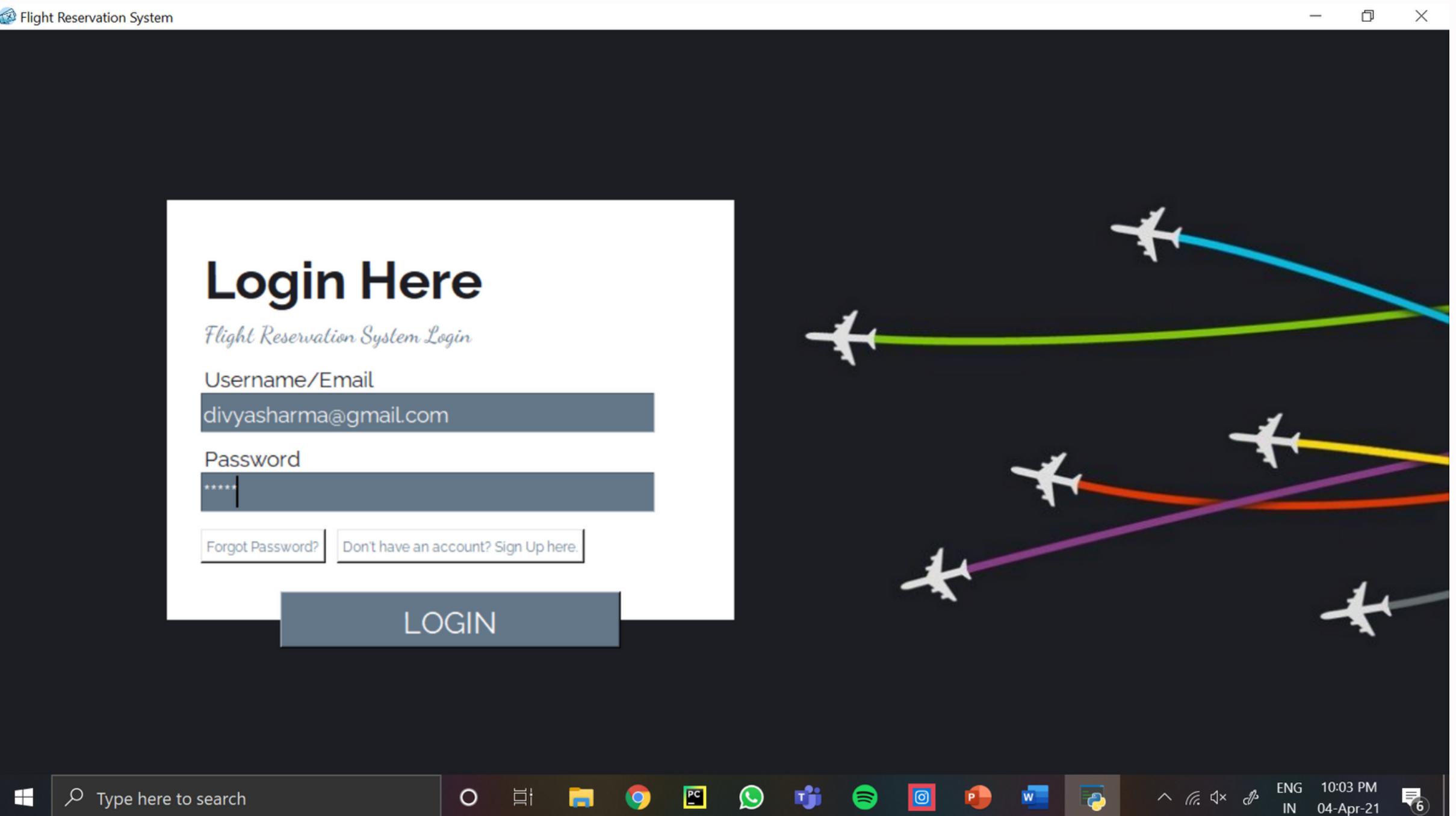
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Layout





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Layout

The screenshot displays the user interface of a Flight Reservation System. The window title is "Flight Reservation System". On the left, a vertical sidebar contains eight menu items: "Book a Flight", "My Bookings", "Flight Status", "Search Flights", "My Profile", "Contact Us", and "FAQs". The "My Bookings" item is currently selected, highlighted in a darker shade. On the right, a large white rectangular area contains the text "Welcome, Divya" in bold black font, followed by the instruction "Kindly select your preference from the Side Menu." Below this text, there is a decorative graphic of several white airplanes flying against a dark background, each leaving a colored trail (blue, green, yellow, red, purple). At the bottom of the screen, a Windows taskbar is visible, showing various pinned icons and system status indicators.



Layout

Flight Reservation System

Logout

Book a Flight

From: Mumbai

To: Delhi

Date of Departure:
MM/DD/YY 4/6/21

Search Flights

Flight Number	Origin	Destination
103	Mumbai	Delhi
131	Mumbai	Delhi
132	Mumbai	Delhi
133	Mumbai	Delhi

Enter the flight number of the selected flight: 103

Number of passengers: 3

Special Fares:

Armed Forces Students Medical

Infants None

Click Here to Add Passenger Details

Type here to search

10:04 PM
IN 04-Apr-21



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Layout

Passenger Details

Cancel Booking

Enter Passenger Details

Name: Sumedha Mahendra

Date of Birth: 9/3/01

Nationality: Indian

Gender: Male Female

Age: 20

Next

Type here to search

Windows Start button

File Explorer

Google Chrome

PowerPoint

WhatsApp

Teams

Spotify

Instagram

OneDrive

Word

Excel

PowerPoint

File

Network

Task View

Search

Start

Help & Support

ENG IN 10:09 PM 04-Apr-21 6



Layout

Flight details

Cancel Booking

Confirm Booking

Origin: Mumbai Destination: Delhi

Date of Departure: 4/6/21 Date of Arrival: 4/6/21

Time of Departure: 5:00:00 Time of Arrival: 6:30:10

Passengers:

Name	DOB	Nationality	Gender
Sumedha Mahendra	9/3/01	Indian	Female
Viraj Sanap	10/2/01	Indian	Male

Confirm Booking

Type here to search

Windows Start button

File Explorer

Google Chrome

PowerShell

WhatsApp

Teams

Spotify

Instagram

OneDrive

Word

Excel

PowerPoint

File

ENG IN 10:11 PM 04-Apr-21 6



Layout

The screenshot shows a Windows desktop environment with a flight reservation application window open. The window title is "Flight Reservation System". The main content area is titled "Flight Status". A sidebar on the left contains links: Book a Flight, My Bookings, Flight Status (which is highlighted in white), Search Flights, My Profile, Contact Us, and FAQs. The main content area has a form to "Enter the Flight No." with the value "101" entered, and a "Show Details" button. Below this, flight details are listed: Flight No: 101, Origin: Delhi, Seats Available: 95, Date of Departure: 4/5/21, Time of Departure: 7:30:15, Price per ticket: 4398.0, Destination: Mumbai, Seats Booked: 5, Date of Arrival: 4/5/21, and Time of Arrival: 9:30:00. The system interface includes a search bar at the bottom with placeholder text "Type here to search" and various system icons.

Flight Reservation System

Logout

Book a Flight

My Bookings

Flight Status

Search Flights

My Profile

Contact Us

FAQs

Flight Status

Enter the Flight No.:
101

Show Details

Flight No: 101
Origin: Delhi
Seats Available: 95
Date of Departure: 4/5/21
Time of Departure: 7:30:15

Price per ticket: 4398.0
Destination: Mumbai
Seats Booked: 5
Date of Arrival: 4/5/21
Time of Arrival: 9:30:00

Type here to search

11:34 PM
IN 04-Apr-21

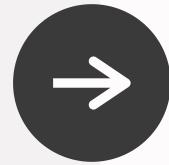


Layout

The screenshot shows the 'Search Flights' page of the Flight Reservation System. On the left, a sidebar menu includes 'Book a Flight', 'My Bookings', 'Flight Status', 'Search Flights' (which is currently selected), 'My Profile', 'Contact Us', and 'FAQs'. The main content area has a title 'Search Flights' and three input fields: 'Enter the Origin:' with 'Delhi', 'Enter the Destination:' with 'Mumbai', and 'Enter the Date of Departure:' with '4/5/21'. A 'Show Details' button is next to the date field. Below these is a table of flight results:

Flight Number	Origin	Destination	Date of Departure
101	Delhi	Mumbai	4/5/21
119	Delhi	Mumbai	4/5/21
120	Delhi	Mumbai	4/5/21
121	Delhi	Mumbai	4/5/21

The system interface includes a dark header bar with the title 'Flight Reservation System' and a 'Logout' link. The bottom of the screen shows a Windows taskbar with various icons and system status.



Layout

Flight Reservation System

Logout

Book a Flight

My Bookings

Flight Status

Search Flights

My Profile

Contact Us

FAQs

My Profile

First Name: Divya

Last Name: Sharma

Email: divyasharma@gmail.com

Phone Number: 7676712

Alt. Phone No.: 8108014321

Date of Birth: 12/5/00

Password: divya

Edit Profile

Delete Profile

Type here to search

10:56 AM
IN 05-Apr-21



Layout

Flight Reservation System

Logout

Book a Flight

My Bookings

Flight Status

Search Flights

My Profile

Contact Us

FAQs

Edit Profile

First Name: [Redacted]

Last Name: [Redacted]

Email: divyasharma@gmail.com

Phone Number: [Redacted]

Alt Phone No.: [Redacted]

Date of Birth: [Redacted]

Password: [Redacted]

Confirm Changes

Type here to search

Windows Start button

File Explorer

Google Chrome

PowerShell

WhatsApp (47 notifications)

Teams

Spotify

Instagram

Python

Network Connection

Volume Control

Screen Resolution

ENG IN 10:56 AM 05-Apr-21

8 notifications



Layout

Flight Reservation System

Logout

Book a Flight

My Bookings

Flight Status

Search Flights

My Profile

Contact Us

FAQs

Contact Us

Registered Office

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To share your feedback/complaints/suggestions or to reach out to our Customer Relations Team, please mail us on the email given below.
For comments, concerning Civil Aviation Requirement, Section -3, please contact- Air Transport, Series M, Part IV. You may write to:
Nodal Officer, Mitali Gera at nodalofficer@FRS.in.Appellate authority, Priyaa Sundaraam at appellateauthority@FRS.in

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Tel : +91 (0)124 435 2500 Fax : +91 (0)124 406 8536

Customer Support

India : 0124-6173838, 0124-4973838.
Outside India: +91 4006063838.

Type here to search

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PC

48

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S

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D

ENG IN 04-Apr-21 11:36 PM

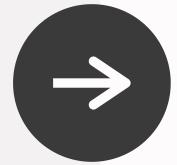
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Layout

The screenshot shows a Windows desktop environment with a flight-themed background. On the left, a vertical sidebar lists navigation options: Book a Flight, My Bookings, Flight Status, Search Flights, My Profile, Contact Us, and FAQs. The main content area is titled "Frequently Asked Questions" and contains a "Select your Query:" dropdown menu and a "Show Query Result" button. Below this is a note: "If your query is not resolved, please visit the CONTACT US page!" and a "Contact Us Here" button. The taskbar at the bottom includes icons for File Explorer, Task View, Edge, Google Chrome, File History, PC Health Check, Taskbar Icons, Spotify, Instagram, Microsoft Word, Python, and a Show hidden icons option. The system tray shows the date and time as 04-Apr-21 11:36 PM.



Linking and Implementation



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Demo

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Conclusion

- This has been a great pleasure for us to work on this exciting and challenging Project. This project proved good for us as it provided us with practical knowledge of programming.
- With working employees travelling 24/7 this software speed up your reservation process and makes it convenient for the customers to book flights whenever and wherever!
- It reduces the scope of manual error and conveniently maintains any modifications, cancellations in the reservations. It not only provides flight details but also creates a platform to book tickets, cancels or modifies ticket timings or dates and even informs about the number of people on board.



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System Project

Academic Year: 2020-21

Thank You!

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N051: Divya Sharma