

AIRLINE RESERVATION MANAGEMENT SYSTEM

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DECLARATION AND APPROVAL

The project titled “Airline Reservation Management System” is submitted by LIKHITHA AVVARI, KRISHNATEJA, AND BHARGAVA ANIRUDH from CSE 4th semester of 2019-23 and hereby accepted by our Mentor, Mr. Sanjeev Kumar, mentor of CSE department section E.

SINCERELY,

YOURS

AVVARI LIKHITHA

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ABSTRACT:

Airline Reservation System is primarily a computerized system used to store and retrieve information related to air travel. This system contains the details about various flight schedules, fares, availability of reservations, and ticket records.

This project is aimed at exposing the relevance and importance of the airline reservation system. It is projected to enhance the relationship between customers and airline agencies through the use of the airline reservation system. It is very convenient for the customers to book flights as and when they require by using this software to make reservations.

AIM / OBJECTIVE:

- This System manages the online reservation of air tickets. The system displays the availability of flights at a specific time, date based on the source and destination.
- The system has good management of data along with integrity and minimizing redundancy.
- This is user-friendly in all possible ways.
- This provides the best customer support for the traveler.
- This system simplifies the task and reduces the paperwork Substantially.

The following assumptions are taken in this project:

- The user can check the availability of flights on a particular date according to the source, and destination.
- The admin can add the new flight with details like flight name, flight number, date, time, travel duration, ticket price, source, and destination.
- Admin can also delete/edit any flight.
- Admin can view the flight report as well as the ticket booking report with all details.
- If a customer who is not registered till now can also get himself registered as a new user and signup.

TECHNOLOGIES USED:

In a programming language, we have Java, JDBC, JSP, Servlet, SQL, etc.

Relational Database:- MYSQL, SQL Server, etc.

Software Requirements:-

Operating System: Windows Family

Front End: CSS,HTML,JSP

Middleware: Java, JDBC, Servlet, JSP

Backend: Database(MYSQL, SQL Server)

Hardware Specifications:-

Processor: Intel Pentium or more

Ram: 128 MB or more

Cache: 512KB

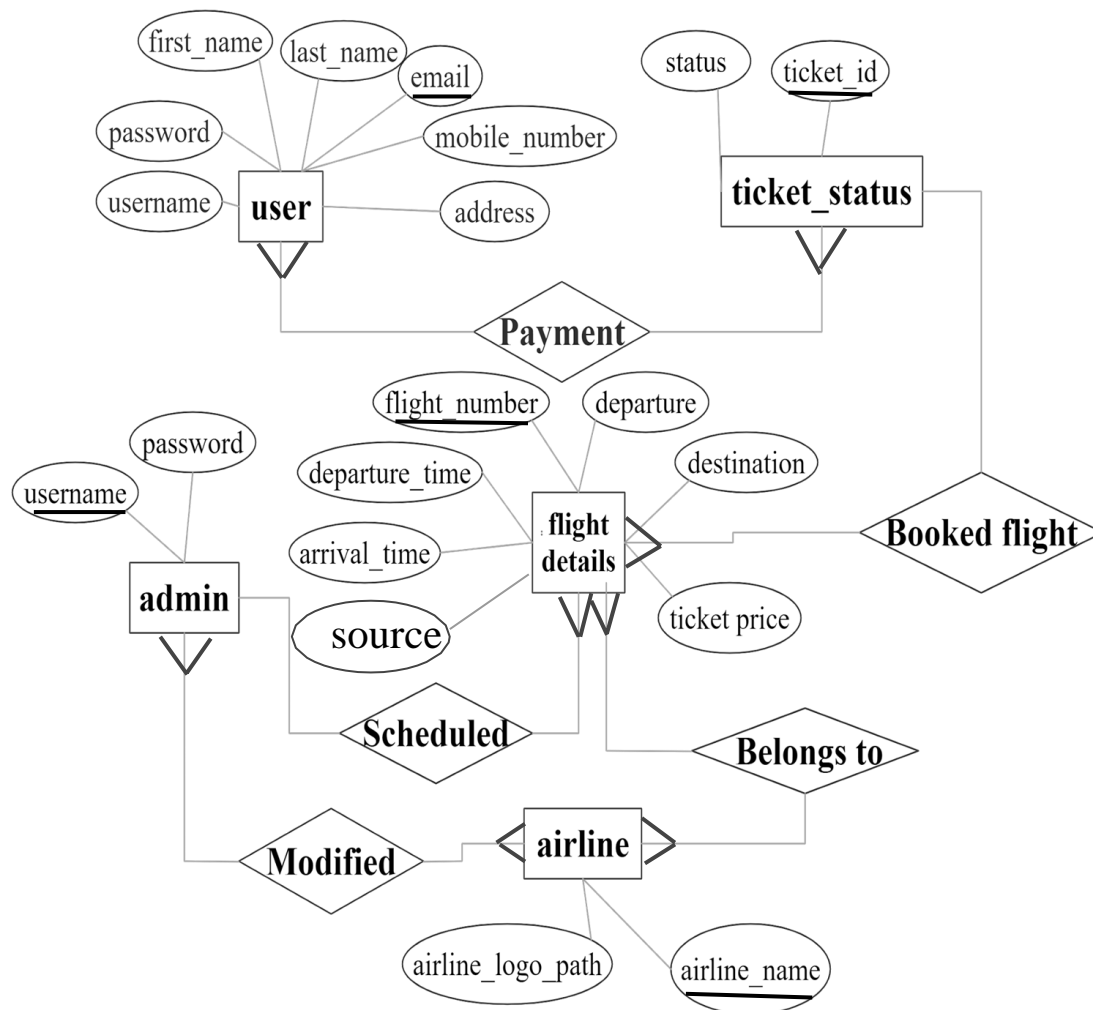
Hard disk: 16GB hard disk recommended

ER DIAGRAM:

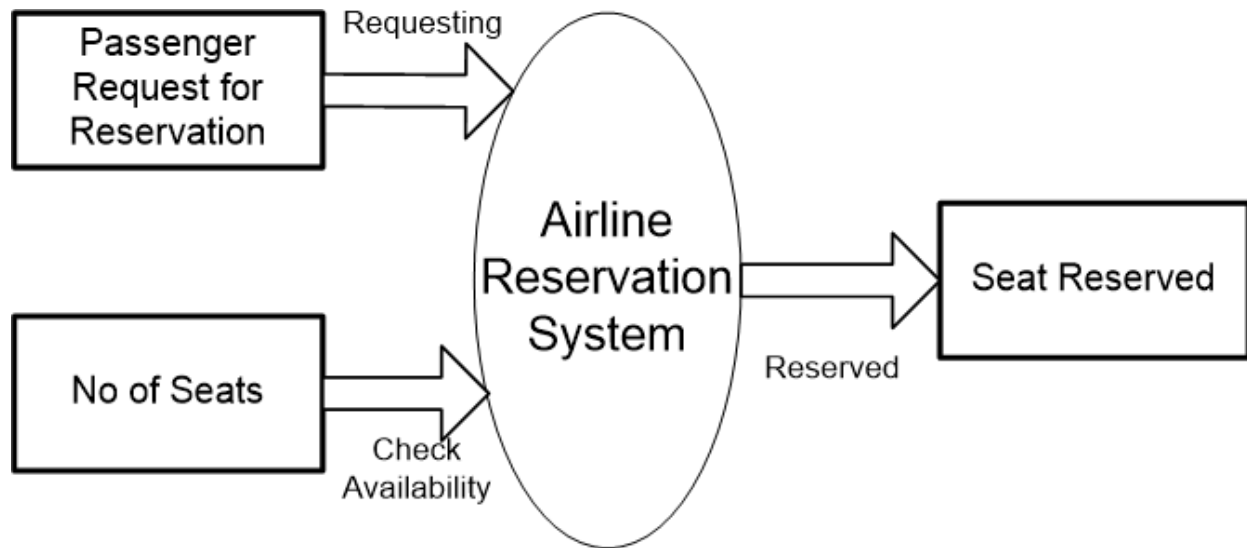
Entities: User, ticket_status, admin, Flight details, airline.

Primary Key(Pk): Email, ticket_Id, username, flight_number, airline_name

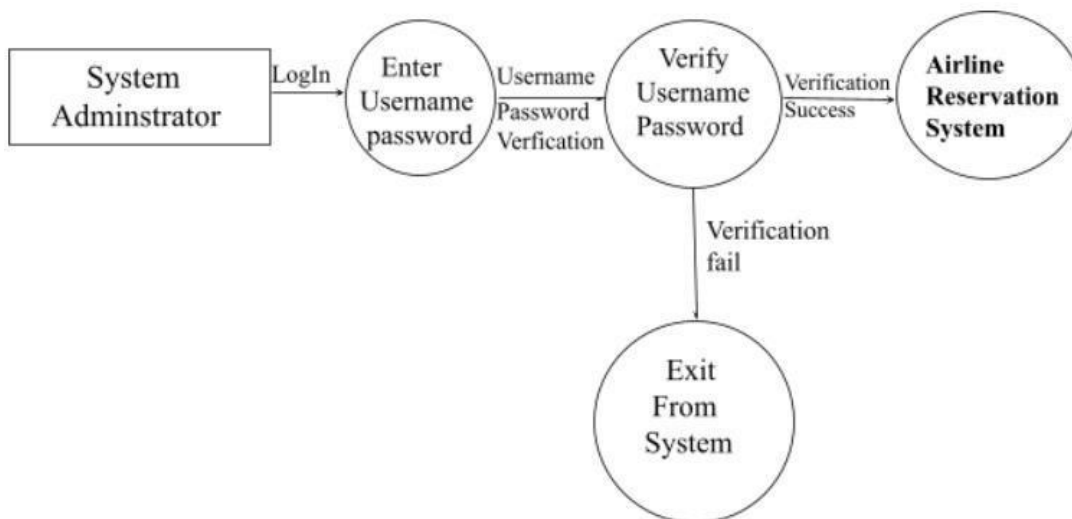
In this ER diagram, between two entities the cardinality relationship is that **many-to-many**.



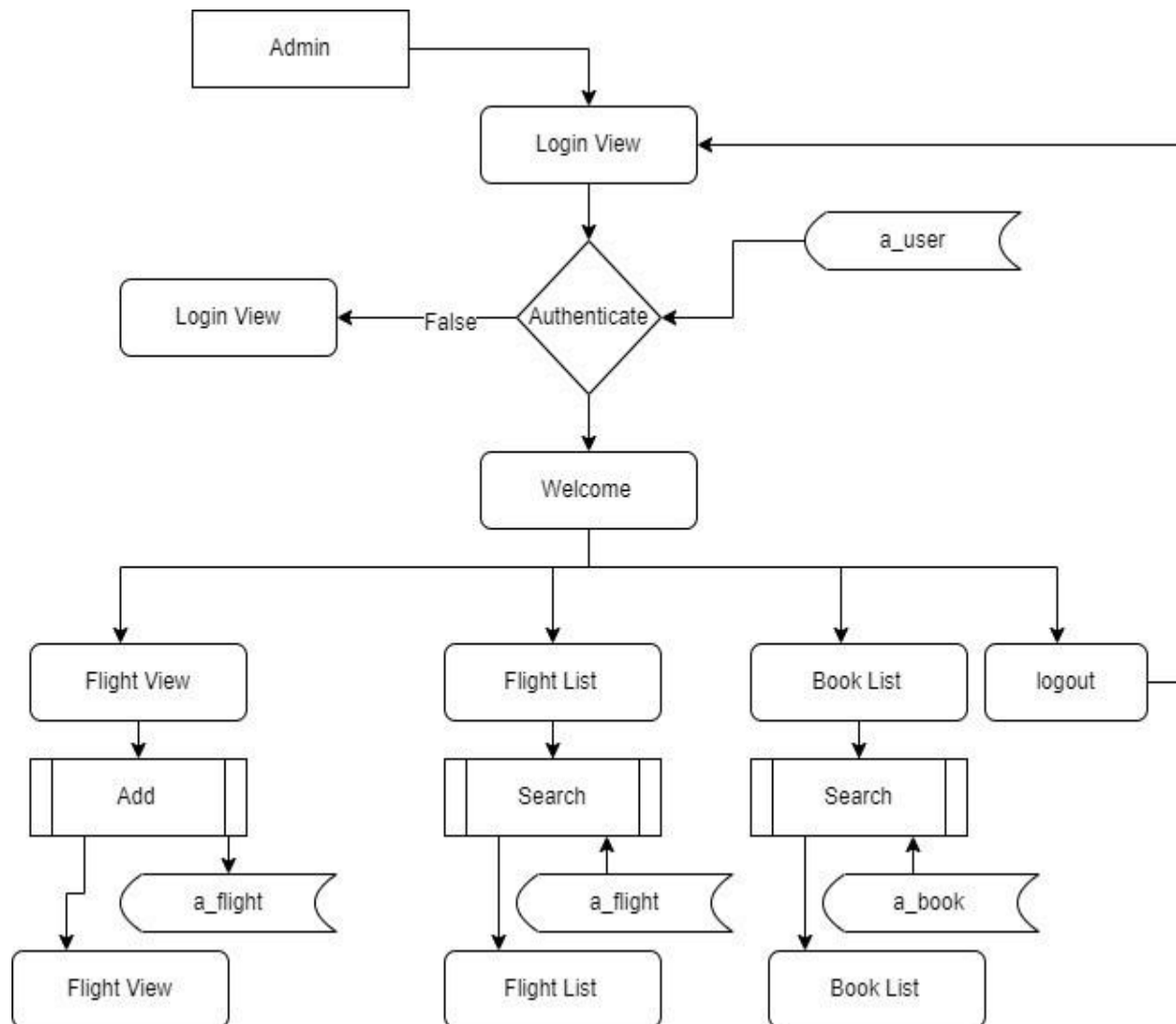
FLOW CHART:



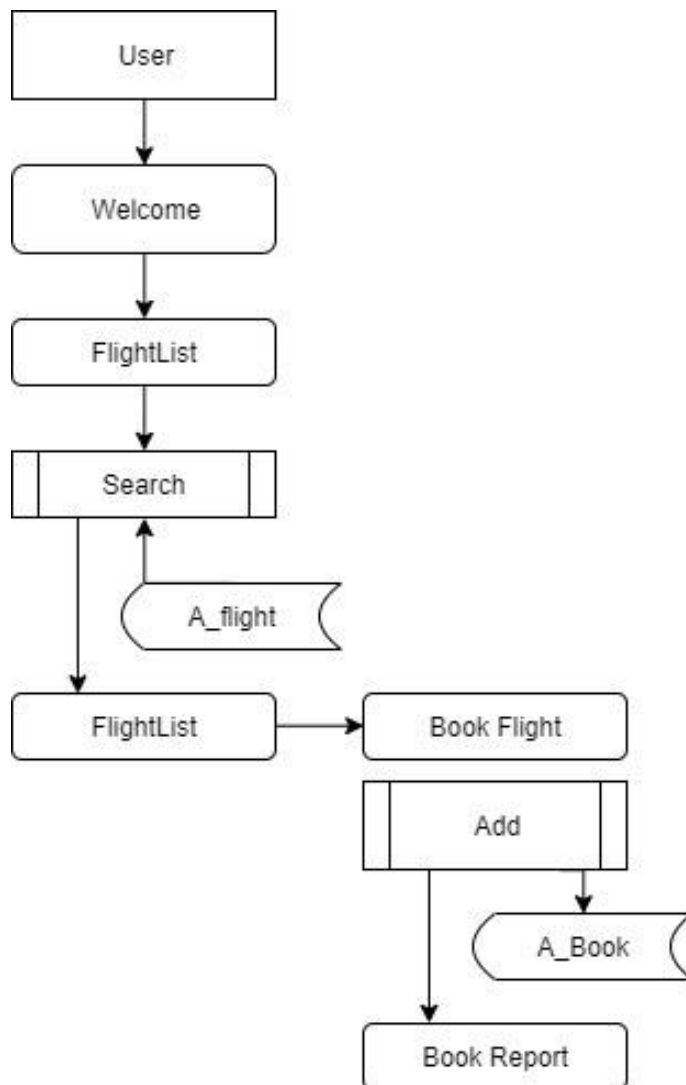
The first level for system login:



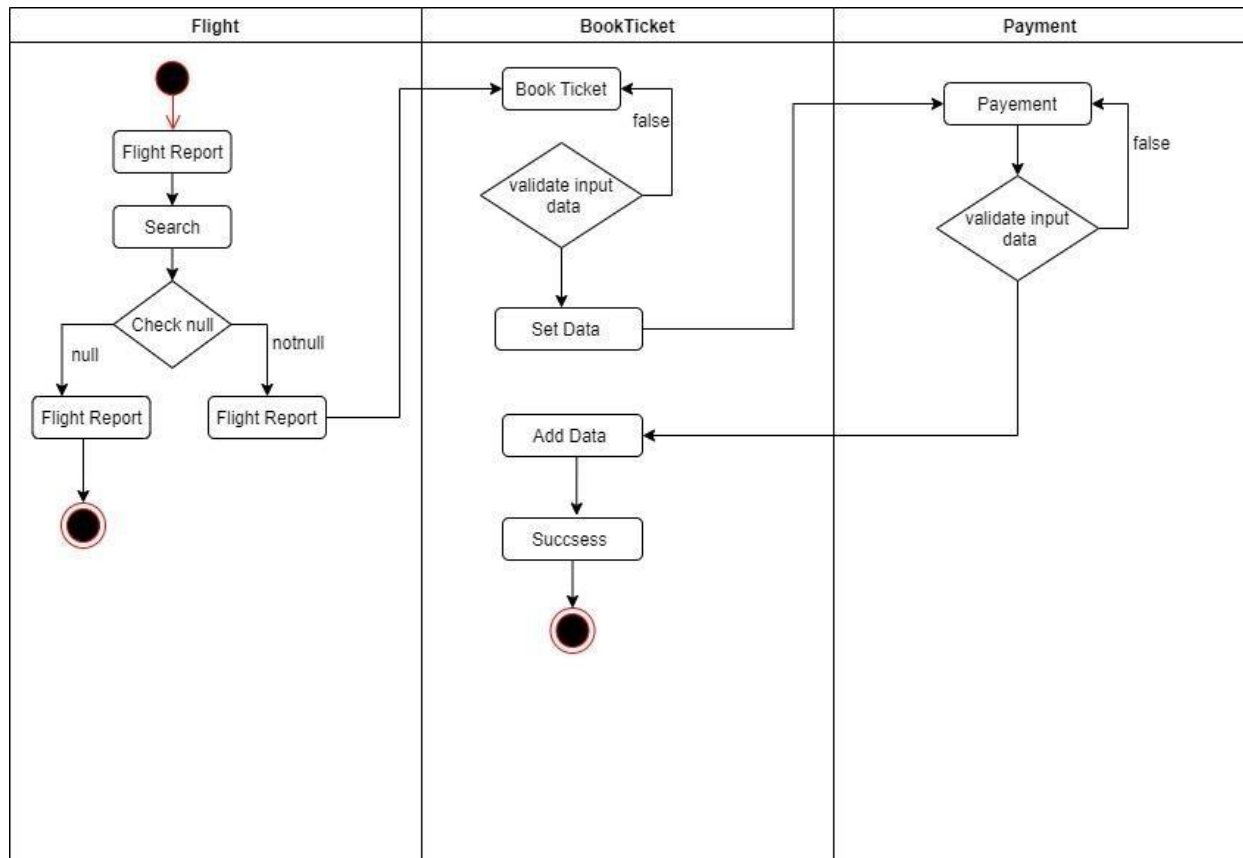
The second level for general inquiry system:



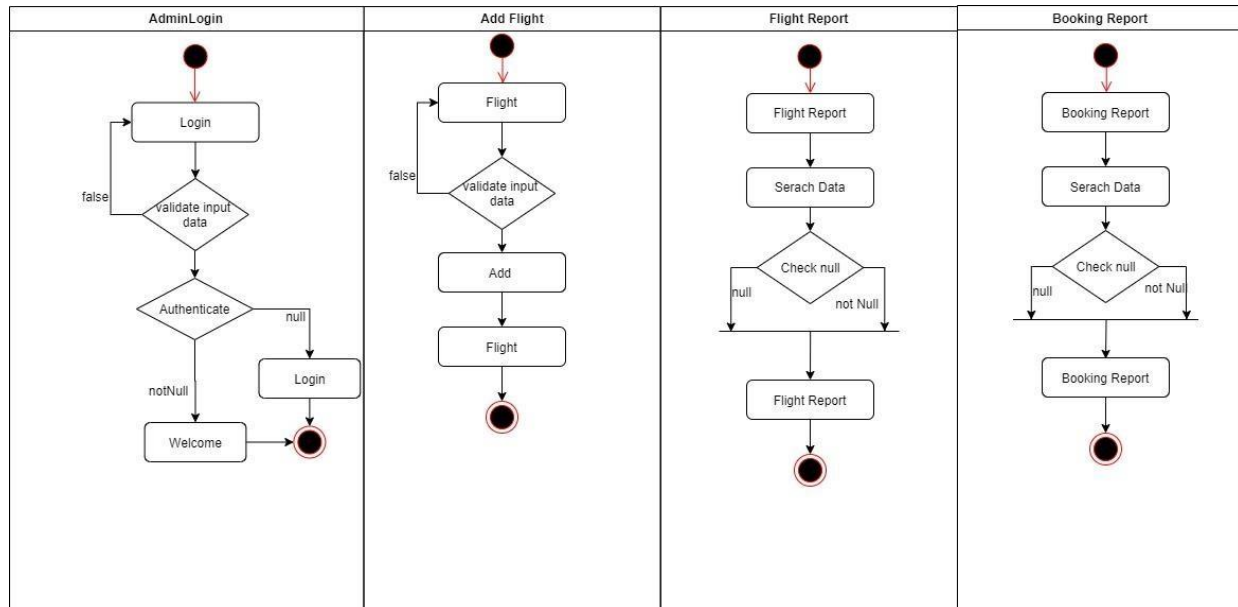
Third level for Booking Section:



The activity of the User:



The activity of the Admin:



ALGORITHM OF THE PROJECT:

Start :

Home Page :

Menu bar:

☐ **Home:** A message of welcome.

☐ **Flight**

☐ **Admin login**

☐ **Hi guest:** This webpage is operated by the User.

Flight: This page shows the full details of flights such as flight number, flight name, source and destination, date, time, Airport name, fare, and description. The passengers can choose the flight conveniently according to source and destination or date and book the ticket accordingly.

➤ **Book ticket:** For booking a ticket the following details have to be entered viz first name, last name, mobile number, Email Id, date of journey, number of persons traveling, and address in the space provided therefor.

→ **Payment:** After entering the above-mentioned details, It navigates to the confirmation details page. After verifying the details, enter the debit or

credit card details for making the payment

successfully or cancel the payment if desired. Then we'll receive the confirmed ticket.

→**Cancellation:** In case the travel program gets changed the booking details can be canceled then it navigates back to the flight details page.

Admin login:

Home page: First, we log in as Admin. Then,

Menu bar:

☐ **Home:** A message of welcome.

☐ **Add Flight**

☐ **Flight report**

☐ **Book ticket report**

☐ **Hi Admin(Admin):** This webpage is operated by Admin only. Here we can see the options as My profile, change password, logout.

Add Flight: On this page, the admin can add the flight by entering the given details such as flight number, flight name, source, destination, date, time, travel duration, airport name, ticket price, and description. By providing the above-mentioned details we can save or reset the details as required.

Flight report: This report shows the details of the flights where the admin can edit, delete or add the details of the flights and also can search the flights by flight name and flight number.

Book ticket report: This report shows exclusively the details of passengers who booked the ticket and also admin can view the details of a specific passenger by entering his/her name and email Id.

SAMPLE INPUT AND OUTPUT:

User Home page -

Welcome to AirLine Ticket Booking

Flight List -

Flight List

From City

From City

To City

To City

Date

Date

Search

Flight No.	Flight Name	From City	To City	Date	Time	AirPort Name	Ticket Price	Description	Book
5VJ52	AIR INDIA	Hyderabad	Delhi	05/25/2021	10:00 AM	Rajiv Gandhi InterNational	12000	Have a safe journey.	Book
5VJ51	Jet AirWay	Hyderabad	Chennai	05/23/2021	11:00 AM	Rajiv Gandhi InterNational	5000	Have a safe journey	Book
5VJ50	Jet Airways	Hyderabad	Bangalore	06/01/2021	10:00PM	Rajiv Gandhi International	6000	Have a safe journey.	Book
5VJ49	Indigo Airways	Bangalore	Amritsar	06/10/2021	9:00PM	Kempegowda International	13000	Have a safe journey	Book
5VJ48	SpiceJet Airways	Chennai	Gujarat	06/15/2021	8:00 PM	Pudicherry Airport	10000	Have a safe journey	Book

Previous

Next

Booking Flight ticket -

Book Ticket

First Name *

Pratheek

Last Name*

Avvari

Mobile No. *

9874563214

Email Id *

pratheeekaa2@gmail.com

Date *

06/15/2021

No Of Person *

1

Address*

To be Hygenic and sanitized. |

Process To Pay/Ment

 or

Cancel

Confirm Detail	
Flight No.: 5VJ48	Flight Name: SpiceJet Airways
Travel: Chennai To Gujarat	Date: 06/15/2021
Time: 8:00 PM	Travel Duration: 90 min
AirPort Name: Pudicherry Airport	Ticket Price: \$10000
Your Detail	
Name: Pratheek Avvari	Contect No: 9874563214
EmailId: pratheeekaa2@gmail.com	Date: 06/15/2021
No Of Person: 1	Address: To be Hygenic and sanitized.
Final Amount: \$10000	

Payment

Card No. *

Enter Card No

Card Holder Name *

Enter Card Holder Name

Month *

MM

Year *

YYYY

CVV No. *

Enter Card Holder Name

Payment and Book

or

Cancel

Providing debit/credit card details:

Payment

Card No. *

1234 5469 5874 2541

Card Holder Name *

PRATHEEK AVVARI

Month *

06

Year *

2025

CVV No. *

582

Payment and Book

or

Cancel

Confirmation ticket:

Confirm Detail	
Flight No.: 5VJ48	Flight Name: SpiceJet Airways
Travel: Chennai To Gujarat	Date: 06/15/2021
Time: 8:00 PM	Travel Duration: 90 min
AirPort Name: Pudicherry Airport	Ticket Price: \$10000
Your Detail Ticket is Successfully Booked	
Name: Pratheek Avvari	Contact No: 9874563214
EmailId: pratheekaa2@gmail.com	Date: 06/15/2021
No Of Person: 1	Address: To be Hygenic and sanitized.
Final Amount: \$10000	

Admin login -

Login

Login Id*

Enter Login Id

Password*

Enter Password

Signin



Admin Home Page -

Welcome to AirLine Ticket Booking

Add flights -

AirLine Ticket Booking

HomeAdd FlightFlight ReportBook Ticket Report

Hi, Admin (Admin)

Flight

Flight No.*

Enter Flight No.

Flight Name*

Enter Flight name

From City *

Enter From City

To City *

Enter To City

Date *

Enter Date

Time *

Enter Time

Travel Duration *

Enter Travel Duration

Airport Name *

Enter Airport Name

Ticket Price *

Enter Ticket Price

Description*

Your Decription

Save

 or

Reset

If the flight already exist, it'll show as -

Flight

Flight is already exists

Flight No.*

5VJ52

Flight Name*

Air India

From City *

Hyderabad

To City *

Delhi

Date *

05/25/2021

Time *

10:00 AM

Travel Duration *

150 min

Airport Name *

Rajiv Gandhi International

Ticket Price *

12000

Description*

Have a safe journey

Save

 or

Reset

Flight report -

AirLine Ticket Booking

[Home](#)
[Add Flight](#)
[Flight Report](#)
[Book Ticket Report](#)

Hi, Admin (Admin) ▾

Flight List

Flight Name

Search By Name

Flight No.

Search By Flight No

Search

<input type="checkbox"/> Select All	Flight No.	Flight Name	From City	To City	Date	Time	AirPort Name	Ticket Price	Edit
<input type="checkbox"/>	5VJ52	AIR INDIA	Hyderabad	Delhi	05/25/2021	10:00 AM	Rajiv Gandhi InterNational	12000	Edit
<input type="checkbox"/>	5VJ51	Jet AirWay	Hyderabad	Chennai	05/23/2021	11:00 AM	Rajiv Gandhi InterNational	5000	Edit
<input type="checkbox"/>	5VJ50	Jet Airways	Hyderabad	Bangalore	06/01/2021	10:00PM	Rajiv Gandhi International	6000	Edit
<input type="checkbox"/>	5VJ49	Indigo Airways	Bangalore	Amritsar	06/10/2021	9:00PM	Kempegowda International	13000	Edit
<input type="checkbox"/>	5VJ48	SpiceJet Airways	Chennai	Gujarat	06/15/2021	8:00 PM	Pudicherry Airport	10000	Edit

[Previous](#)
[New](#)
[Delete](#)
[Next](#)

Book ticket report -

AirLine Ticket Booking

[Home](#)
[Add Flight](#)
[Flight Report](#)
[Book Ticket Report](#)

Hi, Admin (Admin) ▾

Book Ticket List

Name

Search By First Name

Email Id

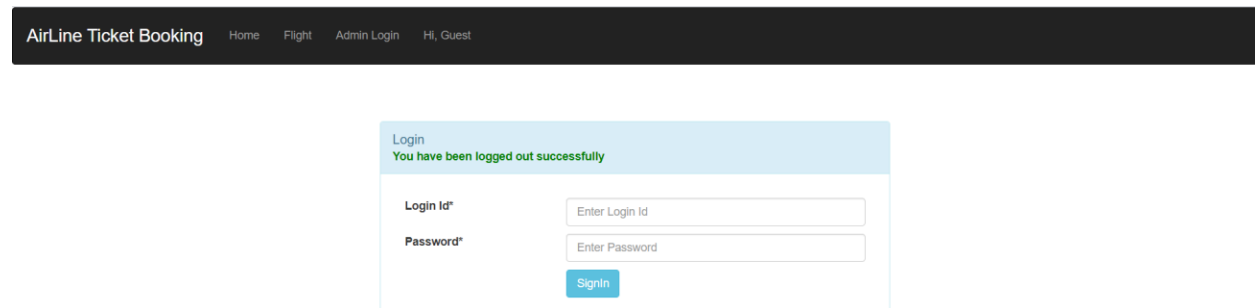
Search By Email Id

Search

Flight Name	User Name	Mobile No	Book Date	Email Id	No Of Person	Ticket Price	Final Price
AIR INDIA	Hariom Mukati	9165415598	06/21/2019	Shubham@gmail.com	1	0	1200
Jet AirWay	Hariom Mukati	9165415598	06/21/2019	nyqaf@mailinator.net	2	1300	2600
AIR INDIA	Hariom Mukati	9165415598	06/21/2019	guvliq@mailinator.net	1	1200	1200
Jet AirWay	Hariom Mukati	9165415598	06/21/2019	byti@mailinator.net	1	1300	1300
SpiceJet Airways	Likhitha Avvari	9887745620	06/15/2021	Likhitha25@gmail.com	1	10000	10000
AIR INDIA	dheemanth macharia	9873216540	05/05/2021	dheemumacharia25	1	12000	12000
SpiceJet Airways	Pratheek Avvari	9874563214	06/15/2021	pratheeekaa2@gmail.com	1	10000	10000

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[Next](#)

After logging out of the admin page it navigates back to the user page -



The screenshot shows the 'AirLine Ticket Booking' website. The top navigation bar is dark with links for 'Home', 'Flight', 'Admin Login', and 'Hi, Guest'. The main content area features a light blue login box. At the top of this box, it says 'Login' and 'You have been logged out successfully'. Below this, there are two input fields: 'Login Id*' and 'Password*'. The 'Login Id*' field has a placeholder text 'Enter Login Id'. The 'Password*' field has a placeholder text 'Enter Password'. A blue 'Signin' button is located at the bottom right of the login box.

END USER:

A person who desires to travel by flight and having computer knowledge and the ability to operate the systems/website can use this application for booking the air ticket online easily.

CONCLUSION:

The project “Airline Reservation Management System” is aimed at exposing the relevance and importance of the air reservation system. For passengers who undertake travel frequently by flight, this system is most convenient to book flight tickets. It reduces the scope of manual error and makes any modifications in the flight details including cancellation of the reservation. In this system, the full details of the availability of the flights are shown at a glance to make it more convenient for the customer to select the flight as per his/her requirements.

