

AERORESERVE



P20CAP2702 - MINI PROJECT REPORT

Submitted by

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Register No: 22MCA054

*in partial fulfillment for the award of the degree
of*

MASTER OF COMPUTER APPLICATIONS

in

COMPUTER APPLICATIONS

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to AnnaUniversity, Chennai)

AUGUST 2023

KUMARAGURU COLLEGE OF TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University, Chennai)
COIMBATORE -641 049

Department of Computer Applications

MINI PROJECT WORK

AUGUST 2023

This is to certify that the project entitled.

AERORESERVE

is the bonafide record of project work done by

SRISABARISH N

22MCA054

of MCA (Computer Applications) during the year 2022-2023.

Project Guide

Head of the Department

DECLARATION

I affirm that the project work titled **AERORESERVE** is being submitted in partial fulfillment for the award of Master of Computer Application is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University.

(Signature of the Candidate)

ABSTRACT

The project “**AERORESERVE**” is aimed at developing a Web application that depicts online booking of tickets for an Airline Company through online. Customers can register to this site, and they can book their tickets to their destination. To confirm the booking of their ticket, a user must pay an amount for his booking. This system aims to simplify tasks such as booking of a ticket, managing Airline details, and managing customer details. Administrator is the main user of this system he will be able to add new flights and view all the bookings of the registered users, and the payments made by them.

Front End: HTML, CSS, Php.

Back End: MYSQL

Operating Systems: Windows 11

Server: Xampp Server

PROJECT DESCRIPTION

MODULE DESCRIPTION

- USER
- ADMIN

USER MODULE

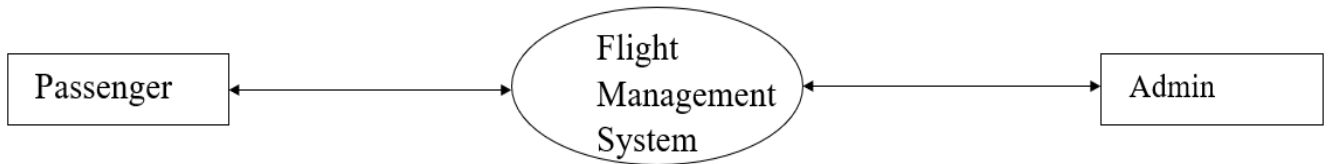
- **My Profile** – Allows the users to view their Personal information.
- **Edit Profile** – Allows the users to update their Profile.
- **My Bookings** – Allows the users to view the bookings made by them.
- **View Flights** – Allows the users to view the list of available flights and the available flights for their destined location.
- **View Booking Status** - Allows the users to know the status of their bookings.
- **Cancel Booking** - This page allows the user to cancel a booking made by them.

ADMIN MODULE

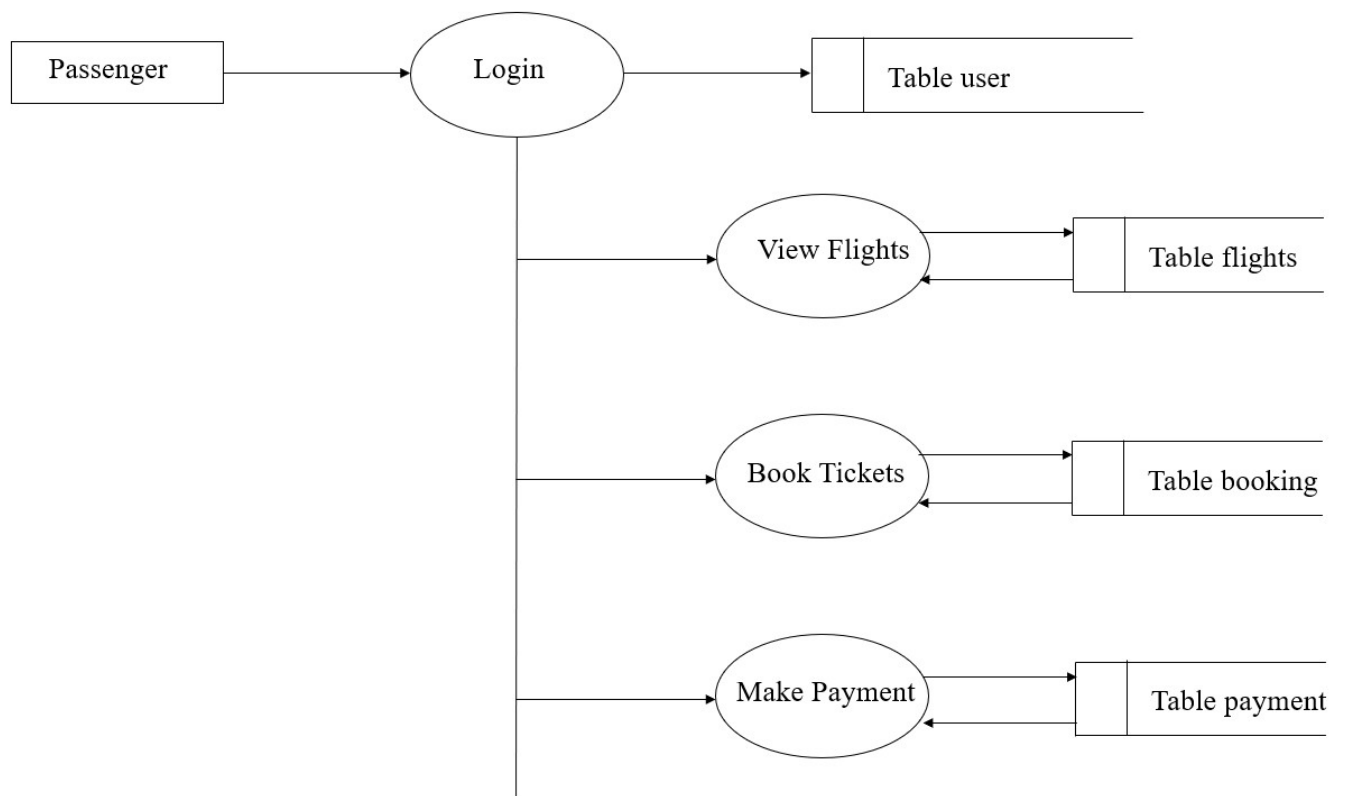
- **Add/Remove Flights**-Allows the admin to add or remove Flights.
- **Edit Flight Details**- Allows the admin to edit each flight details.
- **Confirm/Cancel Bookings**- This page allows the admin to view and confirm/reject the bookings made by the passengers.
- **Flight Details** - Allows the admin to view the Flight details.
- **Booking History**- Allows the admin to view the booking history over a period.
- **Flight travel History**- Allows the admin to view the arrived and departed flights.

DATAFLOW DIAGRAM

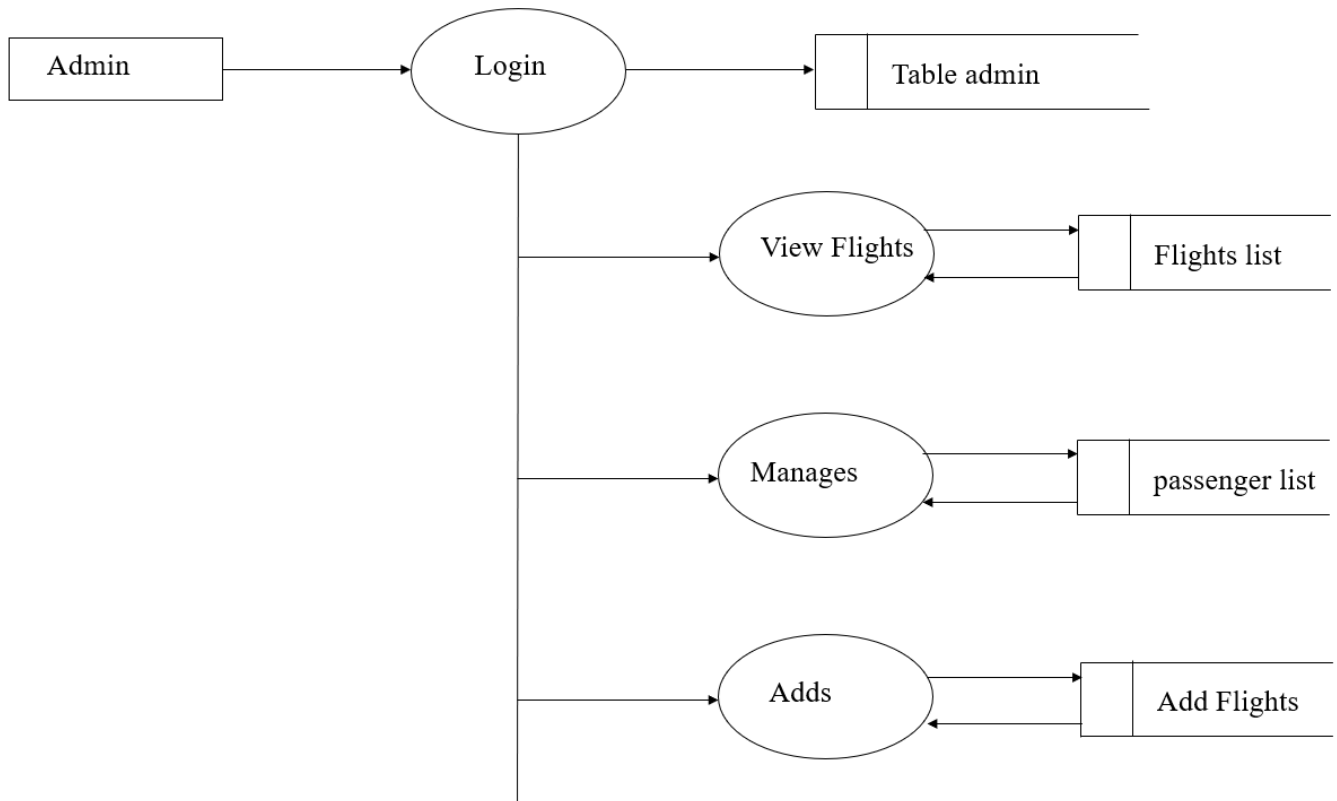
Level 0



Level 1



LEVEL 1(Contd..)



DATABASE DESIGN

1.TABLE NAME: Admin

PRIMARY KEY: Admin_id

Field Name	Data type	Constraints
Admin_id	Int(11)	Primary Key
Admin_uname	Varchar(20)	Not Null
Admin_email	Varchar(50)	Not Null
Admin_Pwd	Varchar(100)	Not Null

2.TABLE NAME: User

PRIMARY KEY: user_id

Field Name	Data type	Constraints
User_id	Int(4)	Primary Key
User_Name	Varchar(30)	Not Null
User_Email	Varchar(25)	Not Null
User_Password	Varchar(20)	Not Null

3.TABLE NAME: airline

PRIMARY KEY: airline_id

Field Name	Data type	Constraints
airline_id	Int(11)	Primary Key
Name	Varchar(20)	Not Null
seats	Int(11)	Not Null

4.TABLE NAME: flight

PRIMARY KEY: flight_id

Field Name	Data type	Constraints
flight_id	Int(11)	Primary Key
admin_id	Int(11)	Foreign Key
arrival	datetime	Not Null
departure	datetime	Not Null
destination	Varchar(20)	Not Null
source	Varchar(20)	Not Null
airline	Varchar(20)	Not Null
seats	Varchar(110)	Not Null
duration	Varchar(20)	Not Null
price	Int(11)	Not Null

5.TABLE NAME: Payment

PRIMARY KEY: card_no

Field Name	Data type	Constraints
Card_no	Varchar(20)	Primary Key
User_id	Int(11)	Foreign Key
flight_id	Int(11)	Foreign Key
exp_date	Varchar(20)	current_timestamp
amount	Int(11)	Not Null

6. TABLE NAME: Ticket

PRIMARY KEY: ticket_id

Field Name	Data type	Constraints
ticket_id	Int(11)	Primary Key
passenger_id	Int(11)	Foreign Key
flight_id	Int(11)	Foreign Key
user_id	Int(11)	Foreign Key
Seat_no	Varchar(20)	Not Null
cost	Int(11)	Not Null
class	Varchar(3)	Not Null

7.TABLE NAME: Passenger

PRIMARY KEY: Passenger_id

Field Name	Data type	Constraints
passenger_id	Int(11)	Primary Key
user_id	Int(11)	Foreign Key
flight_id	Int (11)	Foreign Key
mobile	Varchar (110)	Foreign Key
dob	datetime	Not Null
f_name	Varchar (20)	Not Null
m_name	Varchar (20)	Not Null
l_name	Varchar (20)	Not Null

8.TABLE NAME: Cities

Field Name	Data type	Constraints
City	Varchar (20)	Not Null

FORM DESIGN

SCREENSHOT

ADMIN'S VIEW

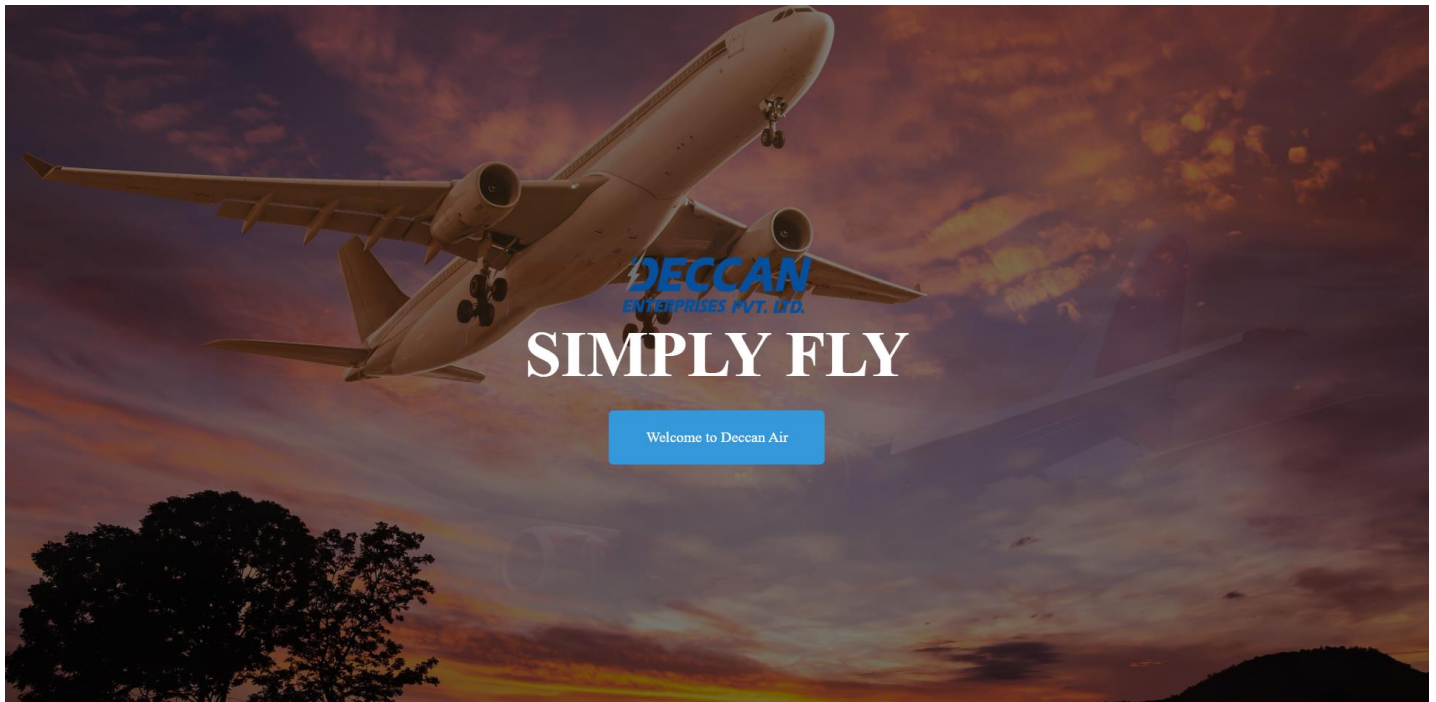


Fig 1 Home Page

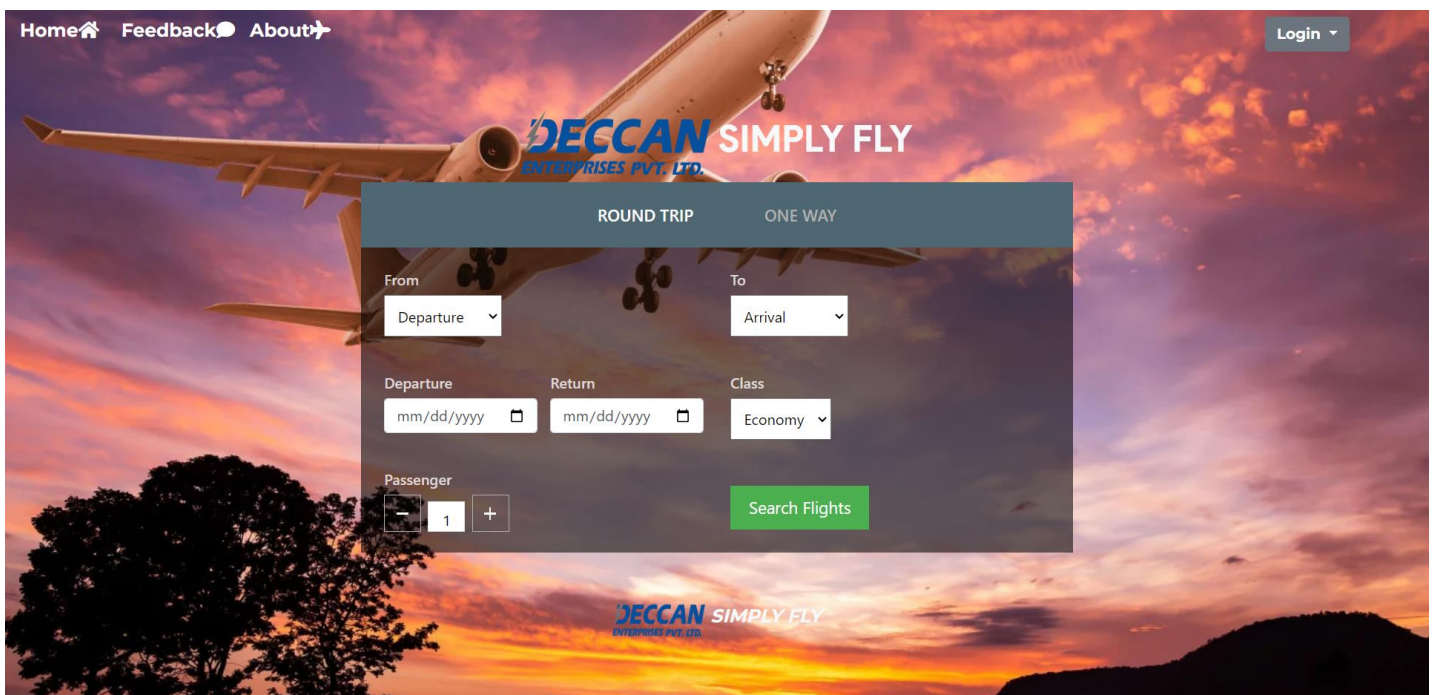


Fig 2 Home Dashboard

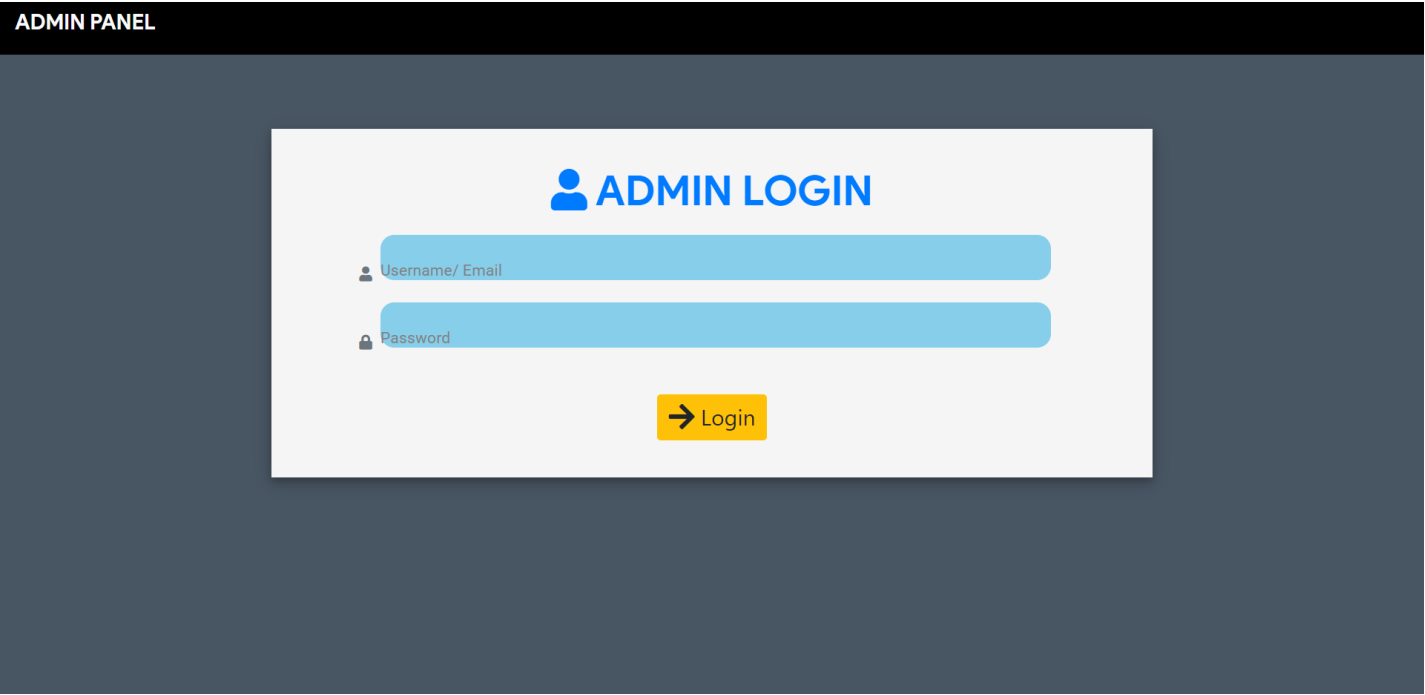


Fig 3 Admin Login

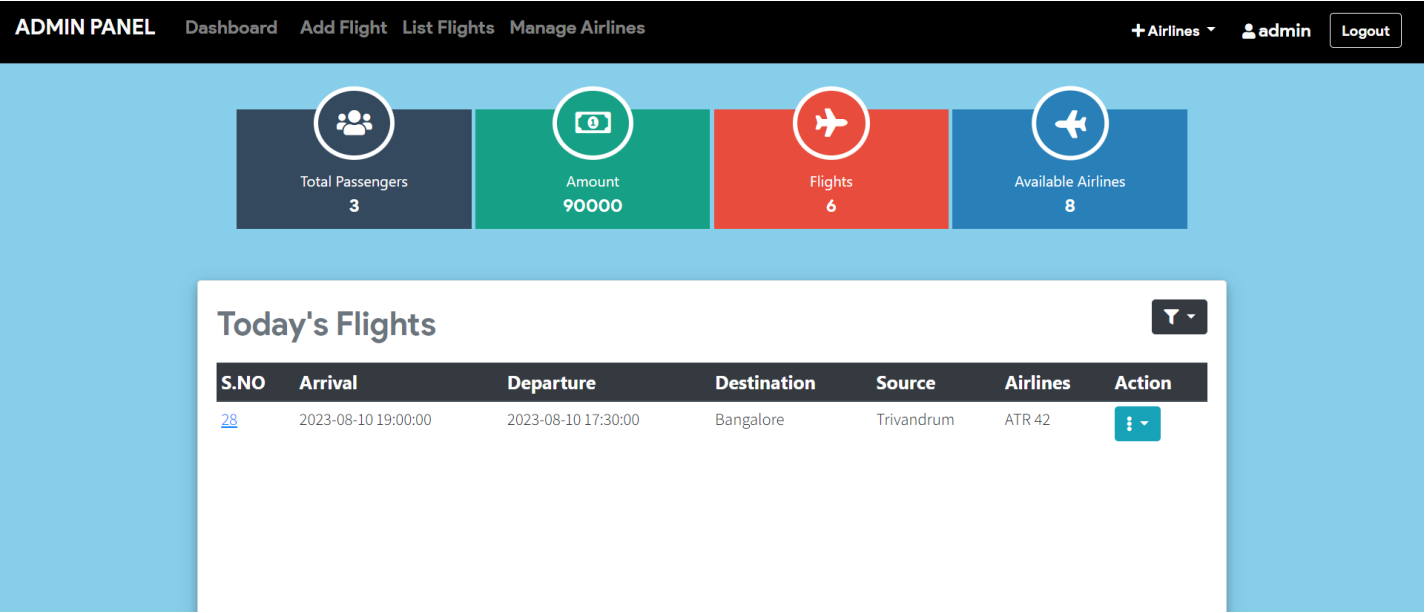


Fig 4 Admin Dashboard

ADMIN PANEL

DashboardAdd FlightList FlightsManage Airlines

+ AirlinesadminLogout

✈️

ADD FLIGHT DETAILS

DEPARTURE

mm/dd/yyyy

--:-- --

ARRIVAL

mm/dd/yyyy

--:-- --

From

To

Duration

Price

Select Airline

➔

Proceed

Fig 5 Add Flights

ADMIN PANEL

DashboardAdd FlightList FlightsManage Airlines

+ AirlinesadminLogout

✈️

FLIGHT LIST

ID	Arrival	Departure	Source	Destination	Airline	Seats	Price	Action
28	2023-08-10 19:00:00	2023-08-10 17:30:00	Trivandrum	Bangalore	ATR 42	206	45000	
27	2023-07-26 18:30:00	2023-07-26 17:30:00	Hyderabad	Chennai	Deccan 121	205	1500	
26	2023-07-27 18:30:00	2023-07-27 17:30:00	Chennai	Bangalore	ATR 42	210	1	
23	2023-07-24 12:00:00	2023-07-24 11:30:00	Chennai	Cochin	Beechcraft 1900D	220	1	
1	2023-07-21 10:00:00	2023-07-21 09:00:00	Chennai	Coimbatore	Deccan Air 1888	82	1	

Fig 6 Flight List

ADMIN PANEL

Dashboard

Add Flight

List Flights

Manage Airlines

+ Airlines

admin

Logout

FLIGHT LIST









S.NO	Name	Seats	Action
1	Boeing 777	165	
2	Beechcraft 1900D	220	
3	Airbus A320	125	
4	ATR 42	210	
5	ATR 72	185	
6	Deccan 121	205	
7	Deccan Air 1888	210	
8	ATR 62	215	

Fig 7 List of Airlines

Home
Feedback
About
Login

LOG IN PANEL

Username/ Email

Password

Reset Password

Register

Login

DECCAN SIMPLY FLY

Fig 8 User Login

Home

My Flights

Tickets

Feedback

About

sri

Logout

FLIGHTS FROM:

Trivandrum to Bangalore

Airline	Departure	Arrival	Status	Fare	Buy
ATR 42	2023-08-10 17:30:00	2023-08-10 19:00:00	Not yet Departed	90000	✓

Fig 9 Available Flights

Home	My Flights	Tickets	Feedback	About	sri	Logout
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PASSENGER DETAILS

Firstname

Middlename

Lastname

Contact No

DOB

mm/dd/yyyy

→ Proceed







Fig 10 Passenger Details

[Home](#) [My Flights](#) [Tickets](#) [Feedback](#) [About](#)

sri Logout

PAY INVOICE

Accepted Cards



Card number

Expiration

CVV

MM / YY

?

Pay

G Pay

Fig 11 Payment

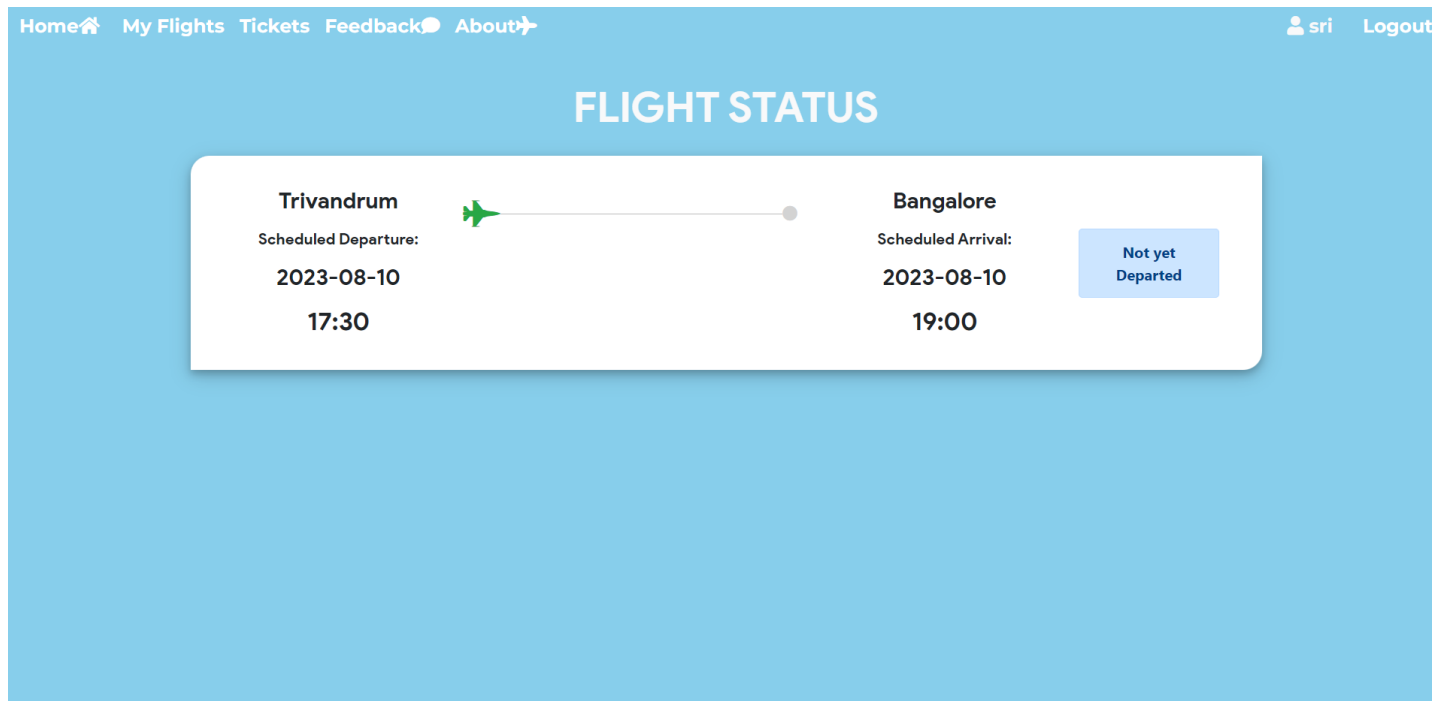


Fig 12 Flight Status

TESTING

PERFORMANCE TESTING

Each component of the “**AeroReserve**” web application went through each stage of the approached methodology. It was identified that each unit behaved differently as a single entity and differently when it was integrated with other units in respect of speed. The test environment of the application plays a crucial role on its performance. Moreover the technical specifications of the platform where the application is installed plays a major role

SYSTEM TESTING

In system testing, integration testing passed components such as report issues, adding project, user registration, custom fields, and tags are taken as input. The system elements are tested as a whole. The environment and behavior of the system and its elements is tested here. The administrator system fulfils the objective in efficient manner. The administrator deals the processes with less expectation of system resources and user friendly with the help of software which takes care of the system resources.

REGRESSION TESTING

Whenever a change in a software application is made, it is quite possible that other areas within the application have been affected by this change. Regression testing is performed to verify that a fixed bug hasn't resulted in another functionality or business rule violation. The intent of regression testing is to ensure that a change, such as a bug fix should not result in another fault being uncovered in the application. Our application “Online Exam Portal” is tested properly then and there whenever the bugs are being fixed, to ensure that it doesn't affect other modules.

UNIT TESTING

Unit testing is a level of software testing where individual units/components of software are tested. It is necessary to test each module by giving them different kind of inputs. This ensures the stability and consistency of the application.

TEST CASE ID	TEST DESCRIPTION	EXPECTED RESULT	ACTUAL RESULT	RESULT
TC001	Administrator Login Check name and password	If name and password fields are correct	Redirect to Administrator login page	PASS
		If name and password fields are incorrect	Error message should be displayed	FAIL
TC002	Student Login Check member email and password	If email and password fields are correct	Redirect to Login page	PASS
		If email and password fields are incorrect	Error message should be displayed	FAIL

Test case

CONCLUSION AND FUTURE ENHANCEMENT

CONCLUSION

This Project is a user-friendly system, which is very easy and convenient to use. The system is complete in the sense that it is operational, and it is tested by entering data and getting the reports in proper order. But there is always a scope for improvement and enhancement. During the development of this, coding standards are followed for easy maintainability and extensibility.

FUTURE ENHANCEMENT

In the future the system will have the following enhancements,

- Digital payment can be included for easy transactions.
- These applications have been developed for minimum requirement, In future it can be enhanced for more details of the system.
- Can be further enhanced to accommodate more functionalities related to administration.

