IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 1, December 2022
Impact Factor: 6.252

AIR RESERVE -An Airline Reservation System

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Abstract: *"Airline Reservation System" is all about flight ticket booking and managing flight database as admin. It is a project toward enhancing the relationship between customer and airline agencies through the use of ARSs.*

Keywords: Java based, Real time, Data bases

I. INTRODUCTION

Airline reservation system is a java-based web application which provides flight ticket booking and various facilities. This application comprises login facilities for user and admin. Admin has right to view user contact details and flight operation such as reviewing seat details and adding new flight. User can look for available flight and reserve flight seat by logging in or registering. This application also covers adding, deleting or modifying the customer details and flights. In general, this web application would be designed to perform like any other airline ticketing application available online. The aim of this project is to implementation to design a data base for an airline reservation system to check the flight detail, book and cancel flight ticket in simple and easy way.

II. AIMS AND OBJECTIVE

This software was built to provide assistance for the purpose of reserving tickets, or cancelling a reserved ticket, as well as rescheduling ticket. Since the information will be centralized so it can be easily updated in case of any changes to flight schedule. These minimizes the need of help line and customer support even at any locations. Thus, it can help in minimizing the need for manual work. This system has been developed to help passenger in reserving their tickets online, access information about reserved passenger and passenger on waiting, cancel a booked ticket.

III. PROBLEM STATEMENT

The existing system is unable to provide the real time integrated tracking of flights on its portal. As of now customer can book ticket on one site and to track the particular flight s/he have to visit the other websites.

While booking the flight ticket, usually customer checks prices of flight various website. The prices of tickets vary site to site, if the customer wishes to book the cheapest available ticket on a particular site, but later finds out that the cheapest available ticket on a particular site, but later find out the cheapest option is already booked by the other customer.

The other problem faced in the existing system is related to connecting flight to particular destination. Customer get an option to select the type of seat for his first flight only but unable to select the type of seat for his second flight

The last but not the least problem faced is tracking of luggage. Sometimes what happens is that we have to wait for hour to collect our luggage from the airport. And it causes difficulty to the customer if s/he has scheduled a bus or a train to reach further destination.

Manual system is more prone to error. Hence many a times they are unreliable. In cases of any change in the flight schedule or cancellation of any flight, if the changes do not reciprocate to the passenger on time, it causes a lot of inconvenience and this affect the reliability of the airlines as well. Any discrepancy may cause a lot chaos and trouble to the airlines as well as passenger.

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IV. MODULE DESCRIPTION

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, Go, .NET).

4.1 Login Window

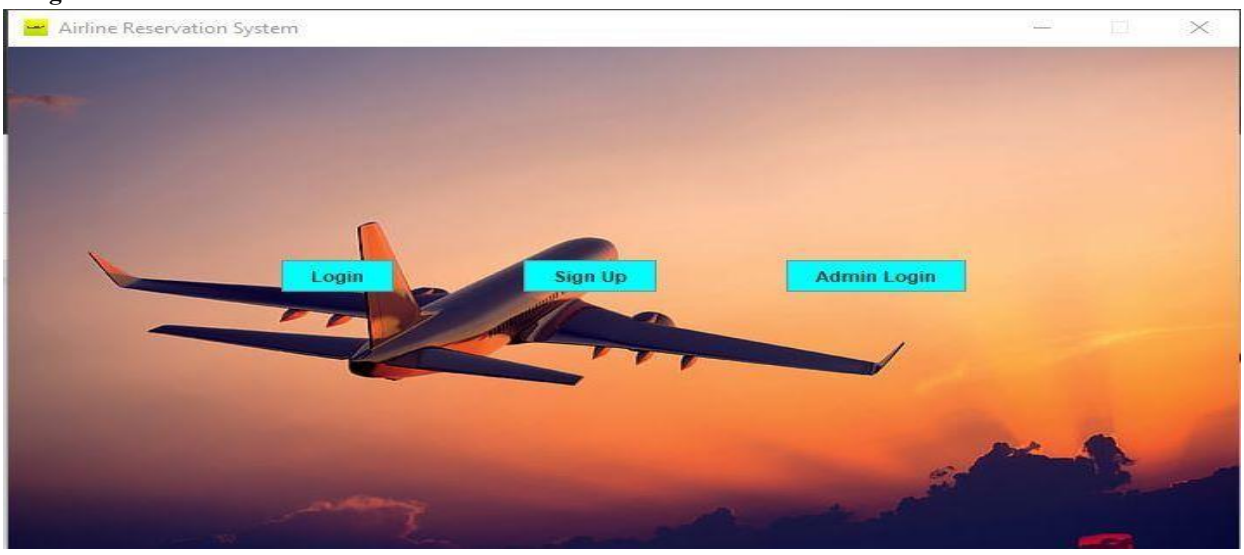

Figure: Login Window

4.2 Registration Window

In the REGISTRATION form the user has to fill details like USERNAME, PASSWORD, EMAIL, etc.

Figure: Registration Window

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4.3 Route Selection Window

In the **ROUTE SELECTION WINDOW** the user has to select the flight destination, class etc. for airline ticket booking space.

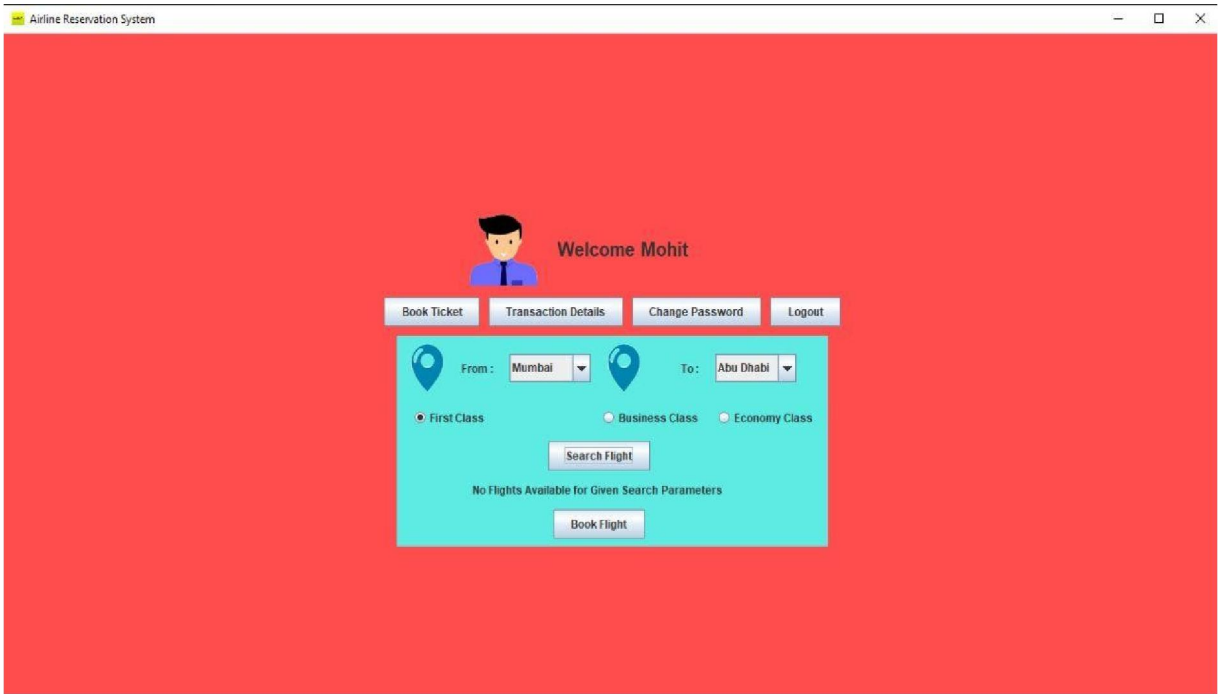

Figure: Route Selection Window

4.4 Flight Schedule Window

Here customer can schedule his flight according to his time and date. User can select available seat with relevant prices.

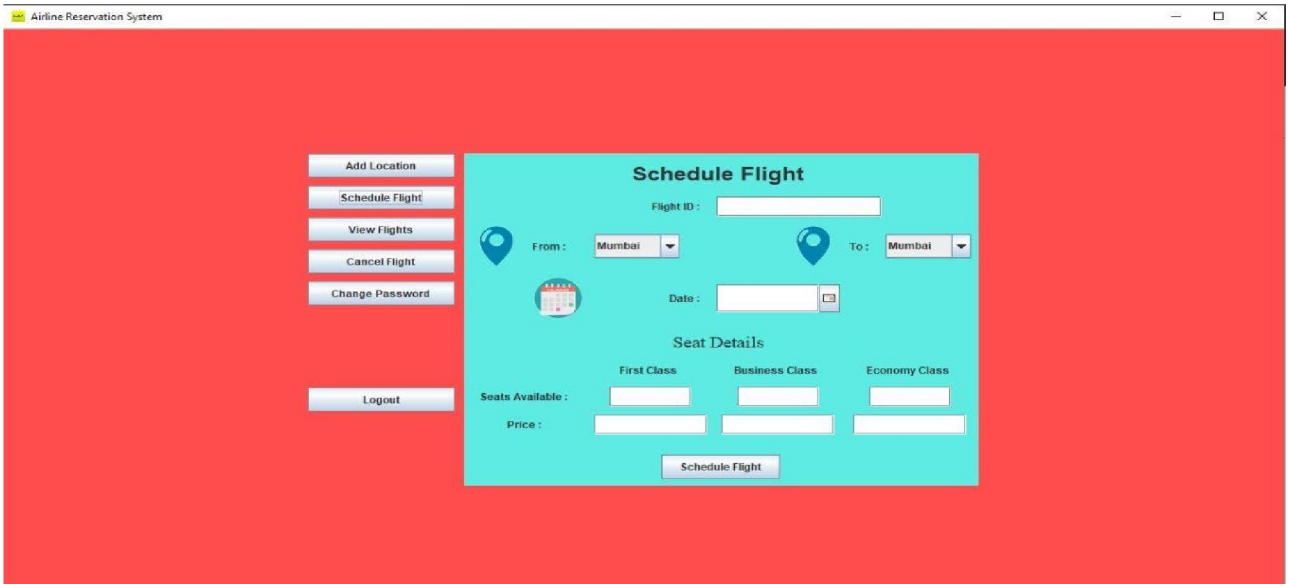

Figure: Flight Schedule Window

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4.5 Admin Login:

Admin can login through this window.

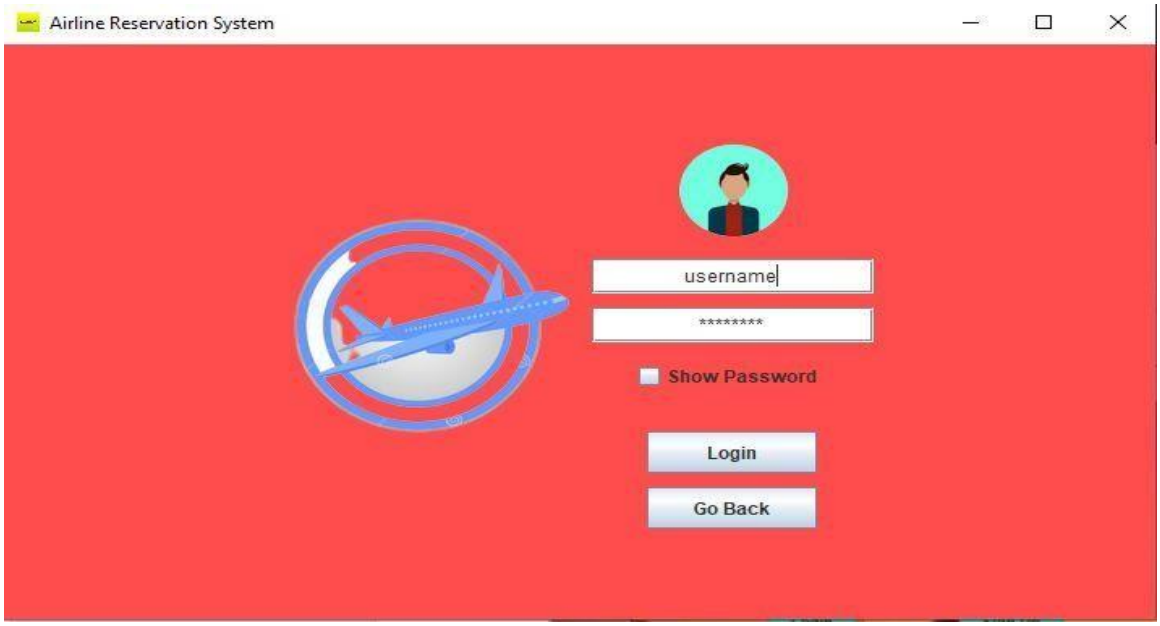
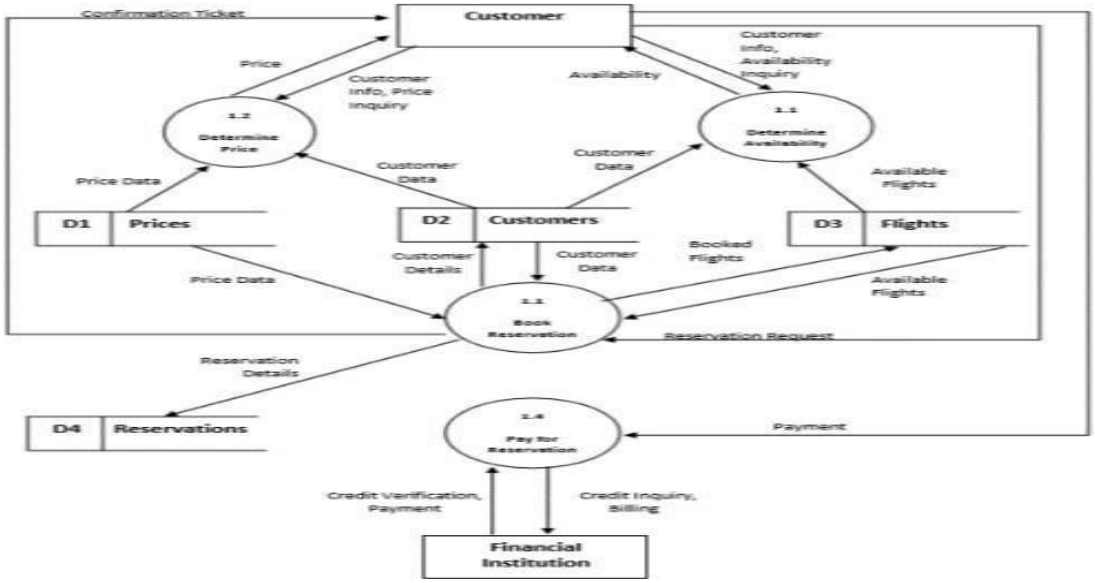


Figure: Admin Login

V. PROPOSED WORK

On the same portal, we'll offer integrated real-time flight tracking. As a result, the customer does not need to visit other websites to follow flights. If the flight is delayed, we will also let the customer know. We will compile all of the most affordable options for buying flights in one location, saving the user the time and effort of having to visit numerous websites to compare pricing. In the event of a connecting flight, we will offer a function that allows customers to select their seats for the first and second flights prior to boarding. We will give customers the option to follow their luggage so they can assess the estimated time of collection and, if they are unable to wait at the airport, choose to have their luggage delivered to a destination instead. In our proposed method we will provide the real time tracking of weather conditions of the route on which the flight travels and customer will get notified about extreme weather condition.

VI. DFD OF PROPOSED SYSTEM



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VII. FUTURE SCOPE

- This project can be upgraded by adding more options such as Ticket editing and more admin operations
- Aadhaar portal can be connected to verify their ID proofs.
- Health details and Covid status of the passengers can be verified.

VIII. RESULT

To enhance online airline reservation project will provide proper organized system where customer can easily book Flight ticket. Air reserve is fully integrated airline reservation with advance customer management tools from reservation product merchandising, inventory And ticketing.

IX. CONCLUSION

We learned a lot about object-oriented programming, database management systems, and creating desktop apps by integrating databases while creating this application.

By logging in or creating a new account, users of this project can access flight information, reserve, view, and cancel tickets, and report any issues as necessary.

An administrator is granted access to view flight information, reservations, user contacts, and some features like adding flights and gathering user- submitted reports.

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