ISSN No:-2456-2165

Airline Reservation System

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Abstract:- Automation in various fields is taking this world one step closer to the technical era. This project "Airline Reservation System" is about flight ticket booking and managing flight databases as admin.

Keywords:- Login, Reservation, Admin, User, SQL Connection, Operations, Flights, Domestic and International Flights, Reservation, Ticket Review, Tickets Cancellation, Add Flight, Reports.

I. INTRODUCTION

"Airline Reservation System" is a java-based desktop application with a purpose of providing flight ticket booking and related facilities. This application comprises login facilities for user and admin. Admin has rights to view user contact details and flight operations such as reviewing seat details and adding new flights. Users can look for available flights and reserve flight seats by logging in or registering.

II. IMPLEMENTATION DETAILS

Airline Reservation System is built on Java for frontend and back-end development and MySQL for DBMS.

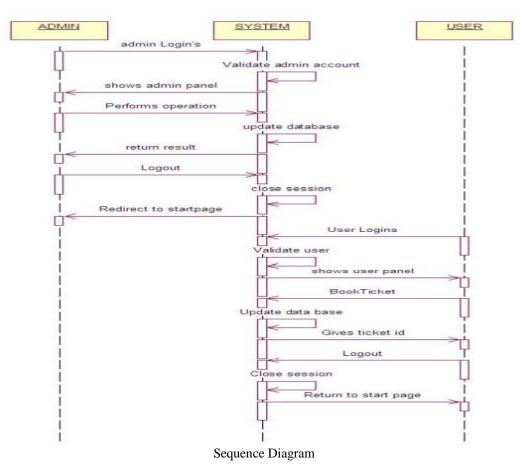
Tools and Technologies:

1. JAVA:

Versatile, high-level, Object-Oriented, Programming Language.

- Front-end: AWT, Swing.
- 2. MySQL:

MySQL is an open-source relational database management system.



ISSN No:-2456-2165

Java Features:

- Login, Authentication, Reservation
- Admin Login
- Logout
- Reservation Operations
- Flight Details
- Reservation
- Ticket Review
- Ticket Cancellation
- Admin Database Operations
- Admin Flight Operations
- Report issue

MySQL Features:

- Login Details
- Admin Details
- Flights
- Tickets
- Users
- Reports

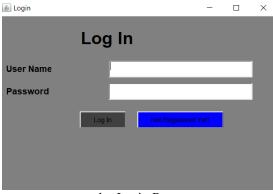
III. RESULTS AND DISCUSSION

This project allows users to view flight details and to reserve, view and cancel tickets by logging in or registering with a new account and reporting any issue if required. Admin is provided with rights to see flight details, reservations, user contacts and some functions like adding flights and collecting reports given by users.

A. User:



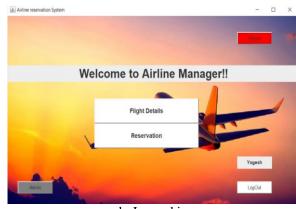
a. Main Page



b. Login Page







d. Logged in



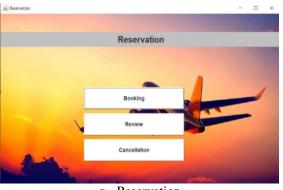
e. Flight Details



f. Domestic Flights

International Journal of Innovative Science and Research Technology

ISSN No:-2456-2165



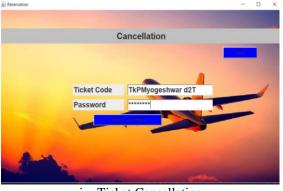
g. Reservation

👔 Ticket Booking		- 🗆 X								
Booking										
Full Name	Yogeshwar D	FROM Pune V TO Mumbai V								
Email	yogesh.deshpande19@vit.edu	Adults[12+] Children[2-12] Infants[0-2]								
Phone No.	9876543210									
Birth Date	04/04/2001	DATE 12/10/2021 Find Flights								
City	Latur	Flights: [1] - id:15718 - Pune> Mumbai[12/10/2021 : 8.00]								
Country	India	[2] - Id:FLPM1222T - Pune> Mumbal(12/10/2021 : 2								
Zip Code	413500	۰ ،								
Select Flight c	ode from flights and type Here:	FLPM1222T BOOK								

h. Booking Ticket



i. Ticket Review



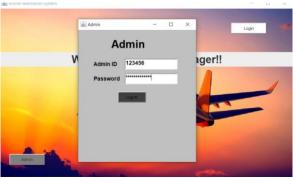
j. Ticket Cancellation



k. Review After Cancellation

Messa	ge	×
	Thank you for reporting! Developers will shortly look into this mat	tter.

- 1. Reporting Issue
- B. Admin:



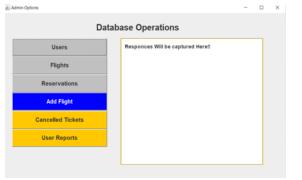
a. Admin Login



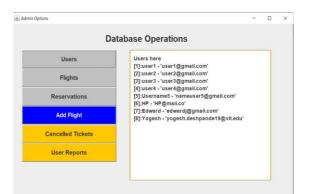
b. Admin Options Button

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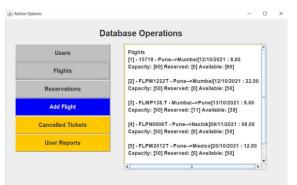
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c. Admin Options



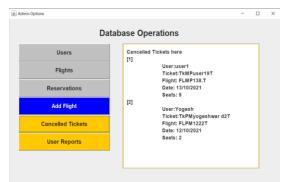
d. User Contact Details



e. Flight Details



f. Reservations



g. Cancelled Tickets

U	atabase Op	erations		
Users	From	Pune		
	То	Nagpur		
Flights	Date	21/08/2021		
Reservations	Time	07.00		
Add Flight	Capacity	45	_	
Cancelled Tickets	Status	Domestic	v	
User Reports		- and the second		

h. Add Flight

Users	Reports here
Flights	[1]:user1 - 'Login delayed but successful' [2]:user3 - 'Flights Not Available yet' [3]:Yogesh - 'Application not opening correctly
Reservations	In agent - Appleadon not opening conceay
Add Flight	
Cancelled Tickets	

i. User Reports

IV. CONCLUSION AND FUTURE SCOPE

> Conclusion:

Application Development can make any developer seek the problem statement through many aspects like GUI and DBMS.

Developing this application made me learn many things about Object oriented programming and Database management systems and developing desktop applications by integrating databases.

➤ Future Scope:

- This project can be upgraded by adding more options such as Ticket editing and more admin operations.
- Payment options and document checking such as ID proofs can be added.
- Applications can be upgraded by improving performance as per user feedback.

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