AIRLINE RESERVATION SYSTEM

CERTIFICATE

This is to certify that **Mr. Sagar H. Raisinghani** is a regular student of 12th Patanjali in VivekanandPrathistan'sKashinathPalod Public School, for academic 2014-15. He has satisfactorily performed the project and practical as per syllabus of Informatics Practices and has completed his journals and records, in all respects.

Subject Teacher **External Examiner**

Principal

A Project Report on

AIRLINE RESERVATION SYSTEM

In Subject of

INFORMATION PRACTICES

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ACKNOWLEDGEMENT

Inspiration and guidance are invaluable in every aspect of life, especially in the fields of academics, which I have received from my respected teacher **Mr. Deepak Ahuja**. I would like to thank him for his endless contributions of time, effort, valuable guidance and encouragement he has given me.

It would be worth mentioning the name of our Principal **Mr. Suhas Mule** without whom we would not have got this opportunity to reach up to this level.

Last but not the least, I also express my sincere gratitude to our all the staff members of our school and friends for their support.

SAGAR H. RAISINGHANI

ABSTRACT

Reservation System by manual way is tedious process, since it involves work load and time consumption. In this system, we can easily manage the Flight booking, Staff details, Flight details, Sector details, travelling expenditure, calculation of travelling expenses and easy way of reserving flights.

The objective of the Airline Reservation System is to develop a project which maintain booking of flights and handle account of Airline Reservations. The main feature of this project is to minimize the complexity faced in reserving the flights and to calculate the expenses.

This project is carried out using NetBeans IDE as front end and MySQL as back end.

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INTRODUCTION

TO THE PROBLEM

Reservation System gives on idea about how the flight details, flight booking, travelling expenses are maintained in the particular concern. The Airline Reservation system also includes some special features. The program provides authentication so that unauthorized person can't access the system. The modules of this project are flight details, flight booking, and travelling expenditure.

NetBeans Java IDE 8.0 is used as the front end tool and MySQL RDBMS is used as a backend tool. NetBeans IDE is one of the most popular RAD's used for Java programming. The application wizards, menu editor and ready tool pallets etc. are very much useful for creating very good professional software.

TO THE SOFTWARE TOOLS

The 'IDE' part refers to the method used to create the graphical user interface (GUI). Rather than writing numerous lines of code to describe the appearance and location of interface elements, you simply drag and drop pre-built objects into place on screen. If you've ever used a drawing program such as paint, you already have most of the skills necessary to create an effective user interface.

It revolves around ready-made objects and it is event-driven that is all the activities in a program are triggered by one event or another. Each object has its own properties, determining its position, size, color, appearance and nature of its text and much more. Each object also has its own event-handling procedures.

NetBeans IDE knows what a button is and how it works? It also works how to handle images, menus, dialog boxes, drive and directory list and much else. The programmer does not have to write code to trap these events the system does that automatically because the program code runs in response to events. The flow of execution is not as fixed in a traditional program.

Operations do not have to follow a set of sequence and can be easily interrupted, suspended or abandoned. The process of program design reflects the nature of the system. You begin by the screen layout events and then any necessary code to co-ordinate the whole program.

The 'RDBMS' part refers to database management systems that stores a huge amount of data in form of tables. If needed, data is stored in encrypted format for security of data. If you've ever used a command line interface, such as in cmd prompt in windows or C programming using Turbo C, then creating database and inserting data in MySQL is quite an easy task. MySQL stores enormous amount of data that can be used to keep all necessary requirements in daily routine. It stores data in UTF-8 or Latin character set. This lets user store a large amount of data in standards and maintained form in comparatively small size on disk space.

APPLICATION SPECIFICATIONS

Hardware Specifications (Used):

Processor	**:**	Intel(R) Core(TM) i5
Process speed	**:**	3.5 GHz
Installed Memory	**:**	8.00 GB
Hard drive	**:**	1024 GB

Software Specifications (Used):

Operating system	**:**	Windows 7 Professional 64-Bit
Development	**:**	NetBeans IDE 8.0
Front End	**:**	Java(TM) SE (build 1.7.0)
Back End	**:**	MySQL RDBMS Server 5.5

APPLICATION ARCHETECTURE

Project Files:

Forms

-Admin.java
-Booking_Frame.java
-Checkout_Frame.java
-Operators.java
-Search_Frame.java
-Login.java
-search_flight.java

Images

-Splash.gif
-MAIN.jpg
-checkin1.jpg
-logo1.jpg

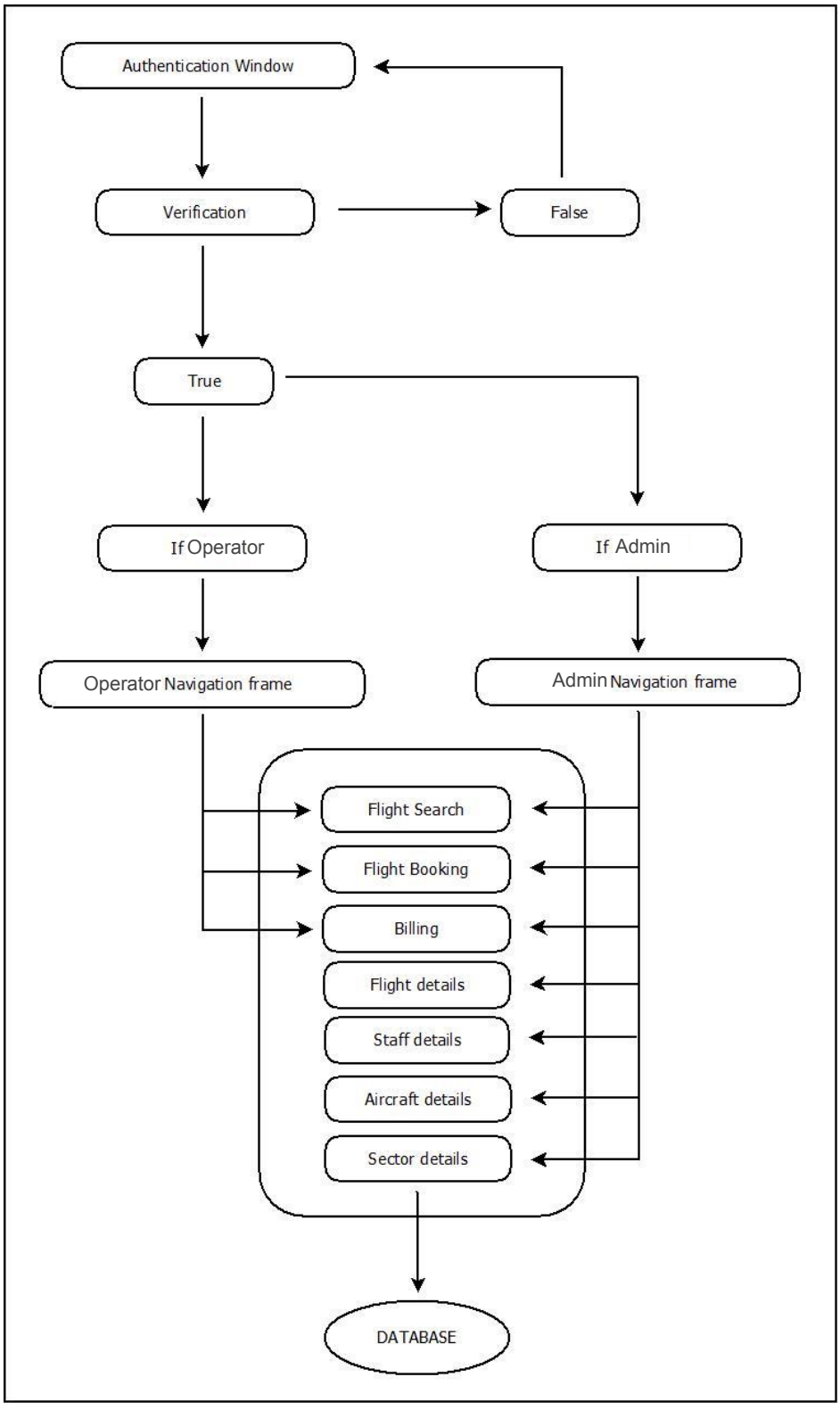
Project Tables (in MySQL):

Airline Reservation System:

-aircraft
-flights1
-scheduledflights
-sector
-staff
-user_profile

Project Workflow Chart:

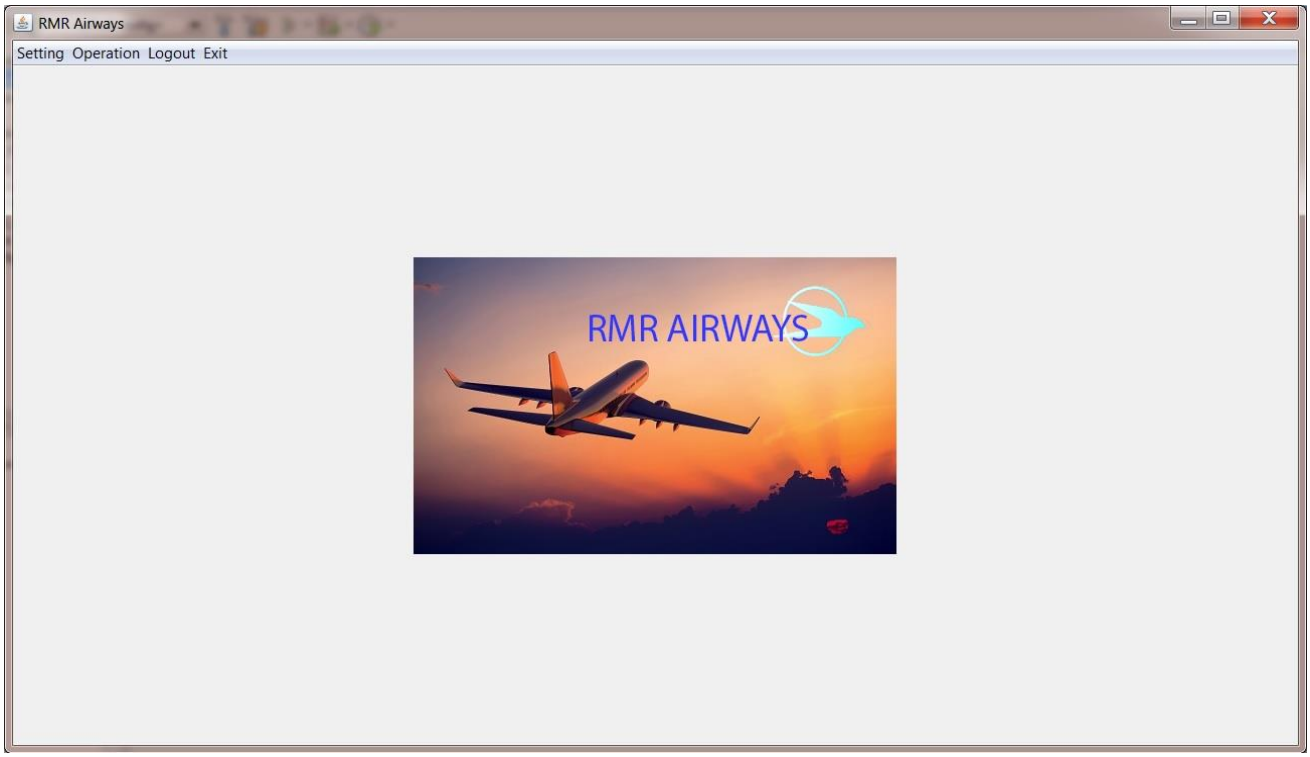
Program Implementation:



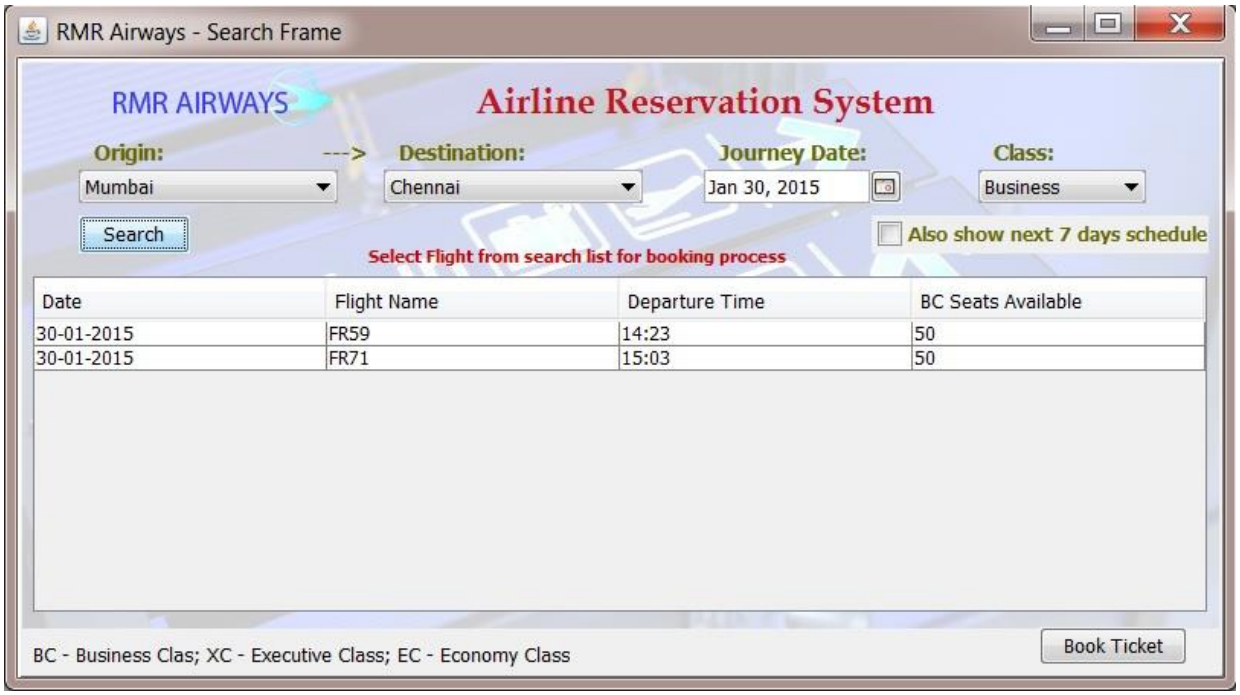
APPLICATION DESIGN

Login Form: This is the first form shown is application for user login

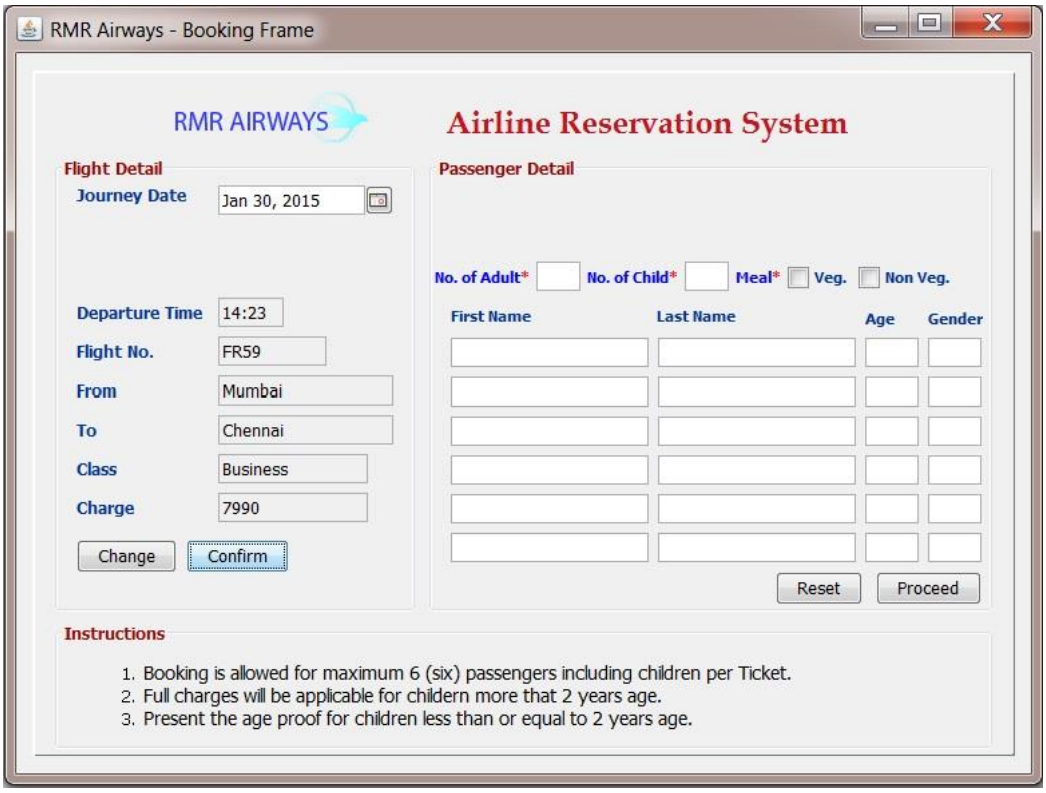
Operator Navigation Frame: Operator's frame used to navigate to other frames



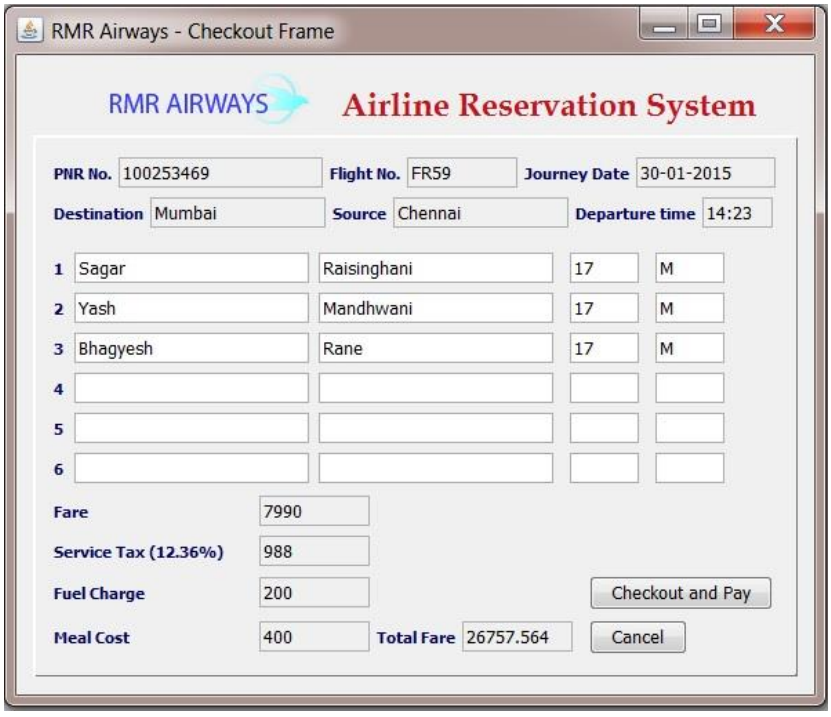
Flight Availability: This form checks for availability of flights in between given cities and proceeds to booking for selected flight



Flight Booking: This form takes all the passenger information and books selected flight for selected date



Flight Ticket Generation: This form generates the ticket of the passenger and calculates the total fare required for the journey



APPLICATION EVALUATIONS

Overview:

Airline Reservation system works fine in all manners with provided functionalities with quite good results. All the basic functions required by an airline company to work daily can be registered and recorded using this application. User friendliness of application is quite good. It is much easy to handle and operate in fast routine. It also doesn't require user to be good at computers.

This application is made for satisfying all the basic functions required by an airline company such as providing authentication, checks for flight availability, booking of flight, generating ticket and total fare, etc. and stands on what it is made for. All these works can be achieved quickly and accurately using Airline reservation system.

Limitations:

The Airline reservation system works well with provided Functionalities, but is not a perfect application. Definition of a perfect application depends on working conditions and differs person to person. Hence, some basic functionalities are provided in this application.

This application does not offer cancelation of tickets and Baggage fee is also not considered. This system serves reservation for domestic cities only. International tickets cannot be booked using this application.

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