NAME: SIKUBWABO SOSTENE
REG NO: 221018174
CLASS NO:

PROJECT NAME: AIRLINE TICKET RESERVATION

1. PLANNING

The main objective of the airline Ticket Reservation System is to manage the details of Airline Ticket, Flight, customer and booking. It manages all the information about airline ticket, booking, and passengers. The project is totally built at administrative end and thus only the administrator is guaranteed the access.
The goal of the project is to build an application program to reduce the manual work for managing the manual work for managing the Airlines Ticket, Flights , Passengers.
The future project will solve the problem of loss of data and the wastage of time during reservation of tickets.

2. DESIGN

An airline ticket reservation system, serves as storage for flight-related information like flights, fares and rules for each booking class, passenger name records, e-tickets, etc. It is also involved in managing booking requests and ticket issuing.

Airline ticket reservation systems is a system that allow an airline to sell their inventory (seats). It contains information on

schedules and fares and contains a database of reservations (or passenger name records) and of tickets issued (if applicable).

Functional requirements are:

- The admin will be able to login
- The admin will be able to delete data easily
- The admin will be able to insert data easily
- The admin will be able to update data easily

Non-functional requirements are:

- Security
- Usability
- Performance
- Scalability

3. DEVELOPMENT

We have built our system using front end and back end technologies such as:
Front-end technologies are frame works and libraries such as:

1. JCalendar 1.4 as a library for java date chooser for graphically picking a date
2. Java programming language as well as NetBeans IDE and xampp server for database.
3. Swing controls generated from NetBeans to create forms, buttons, labels as well as user interface as whole

Back-end technologies, we have used jsp and servlet technologies to perform activities by working with system components

without user-interface such as CRUD operations (create, read, update, delete).
We have used also MySQL as database management system to hold backend data.

4. TESTING

System testing is the process in which a quality assurance (QA) team evaluates how the various components of an application interact together in the full, integrated system or application.

This is how we did it:

Open xampp server
Start Apache and MySQL
Open project in NetBeans
Add Jcalender jar folder in the libraries
Add com.mysql.jdbc_5.1.5.jar in the Libraries.

PROJECT RUNNING:

Open NetBeans software and then choose project called javasql (Airline Ticket Reservation project)

Run Login page and then login with username and password as admin
Our project contains four different pages or buttons called flight, passenger, ticket and cancellation, all is working.

For flight Page

The admin can insert all flight information's such as flight name, source, destination, date, and number of seats.
You can also update all of that information after saving it mistakenly.
There is also delete button, you can delete all information, as you want.

For Passenger Page

The admin can insert all information of passenger such as passenger names, nationality, gender , passport number, address and phone number.

All the data inserted can be updated through update button and can be deleted through delete button.

For Ticket page

The admin can insert all information about ticket details such as passenger name, passenger id, flight code, gender, passport number, amount, and nationality.

All data inserted can be updated and deleted through update and delete button

For cancellation page

The admin can choose the data, wants to cancel by choosing their ticket id, flight code and dates. The admin can reset all those information.

5. DEPLOYMENT

The goal of the deployment phase is to have the software deployed to a production environment so that the end users can start using it. During this stage, the developers and other key stakeholders can interact with the new product and make sure that its working seamlessly in the production environment.

At this phase, an end-user can start using the software,
The new user can install NetBeans also in his /her laptop

The new user can install MySQL servers such as wampp or xxampp

The new user needs to export database from main laptop
And the import it to new user's laptop or desktop

The new user can copy the java program from the main laptop and the install it to the new user's pc.

The new user install libraries also in new user's laptop or desktop such as
Add Jcalender jar folder in the libraries

Add com.mysql.jdbc_5.1.5.jar in the Libraries.