Lab Assessment1 Javafullstack Time -4 hours

Question-1

Create a flight Reservation System application following the abstract provided.

ABSTRACT:

The objective of the project is to design an Airline Reservation System application that enables customers to search for flight and book flights. This application is made for providing the customers an anytime and anywhere service for booking airline tickets and providing information about the flights and their schedule online. The Airline Reservation System project mainly consists of two types of users. The customers who access the information provided by the website and the administrator who modifies and updates the information available on the website. All the data needed for the application is stored in the form of tables in the MySQL. Using the JDBC and JSP for backend services and HTML, CSS, JAVASCRIPT, BOOTSTRAP ,JQUERY for frontend.

we propose to develop an application that can create, read, update, and delete (CRUD) operations. In this application, we intend to use MySQL as our database, JSP , JDBC for backend development, and HTML, CSS, JAVASCRIPT, BOOTSTRAP ,JQUERY for the frontend development.

MODULE DESCRIPTION

Number of Modules

After careful analysis the system has been identified to have the following modules:

1. **Administrator Module**
2. **Passenger Module**
3. **Check Flight Module**
4. **Book Ticket Module**
5. **Payment Module**
6. **Cancellation Module**

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1. Administrator Module

- Enables the airline administrator to perform all administrative functions and manage inventory over LAN or the Internet.

- The administrator can define or modify routes, fares, schedules and assign or deny access rights for qualified travel agents and other authorized users.

2.PassengerModule

- The passenger should register himself in order to proceed the book ticket service.

- They need to input all the required particular details during the registration process.

- The web service will perform validation checks on passenger input and length constraints.

- Upon successful login, the passenger will be registered officially to the web service and he can login using his username and password.

- The guest is only permitted to check flight availability.

3.CheckFlightModule

- The passenger is permitted to search available flights based on the origin city, destination city, departure date and return date.

- The web service will display any matching records based on the search criteria entered.

- The web service will notify the passenger about the flight availability.

- If the searched flights are available, then web service will display flights which are within a week. Otherwise, the web service will prompt to ask the user to re-enter new searching criteria.

4. Book Ticket Module

- From the Check Flight, the passenger is required to log in and the web service will prompt the passenger to confirm the flights.

- The web service will then ask the passenger whether to update his profile details or not. Subsequently, the passenger will be asked to purchase and confirm the selected flights.

5. Payment Module

- After Book Ticket, the web service will generate payment ID upon successful transaction is made.

- Once it has been confirmed, the web service will generate booking id to the passenger and require the passenger to view the payment receipt.

6.CancellationModule

- The passenger is required to be logged in before he has privilege to cancel his confirmed tickets.

- The passenger will select which ticket to be cancelled in the booking history. Once the confirmed ticket has been selected then the web service will delete the data off from the database.
- The passenger is given cancellation ID upon successful transaction.

System Requirements:

Software Requirements:-

- Web Presentation : HTML, CSS
- Client – side Scripting : JavaScript ,Bootstrap
- Programming Language : Java
- Web based Technologies : JSP
- Database Connectivity : JDBC
- Java Version : JDK15
- Backend Database : MYSQL
- Operating System : Windows 11
- Web Server : Tomcat 9.0
- Browser : CROME