Phase 2 Project Abstract

-Developed by

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Project Objective:

As a Full Stack Developer, design and develop an airline booking portal named as FlyAway. Use the GitHub repository to manage the artifacts.

Project in Brief:

This project is about creating a website portal where the users can search, select, and book the required flights from the airline. Also in backend there would be an admin login portal where the admin can perform some specified admin features, like password update, master listing of source to destination, airlines, and flights with required details.

Sprint Planning: I have divided the sprint into 5 parts.

1. In, Initial sprint the index/home page building, getting flight details and searching for user from the database of flights, selecting the flight has been done. It took 3 days.
2. In second sprint, first a passengers database is created so while passenger confirm booking their details to be stored, next pages for getting details, select flight details display, payment gateway were built and linked to the flights and passengers data base. I worked on this sprint for 5 days.
3. In the 3rd sprint I worked on the admin module, created login page, and database for admin login credentials to verify the admin login details servlet is used, then the required master lists display process is done using flights details from database. I worked on this sprint for 3 days.
4. In 4th sprint the password updating feature is built along with all the cases possible so that the updating process to admin will be done smoothly, and admin must remember the updated password or can request management to get the password from database. USERNAME= ‘nika’ and PASSWORD=’secure’. I worked on 2 days for this sprint
5. I took up code scouting to increase efficiency and testing to know where the issues were and to solve them. I also took 2 days for it to make sure the code fulfills all the Mentioned requirements.

Java Concepts Used:

* Servlets
* JSP Include
* Datasource of connecting to database
* Connection
* Statements
* Class, Objects, Methods, and Variables
* Exceptional Handling
* Collections
* Control Flow Statements
* Looping Statements
* Jump Statements

Other Concepts used for front End:

* Java Scripting
* Sessions

Project GitHub Link:

<https://github.com/rChappidi10836/servletdemos/tree/main/phase-2_proj_FlyAway>

Flowchart of Algorithm:

Diagram

Description automatically generated

Algorithm:

Step 1: Start

Step 2: index page display

Step 3: if flight booking portal select

Step 4: Details Enter page of required flight

Step 5: if flights available display

else goto step 4

Step 6: after flight selected redirect to user details enter page, followed by flight detail review page,

Payment gateway page.

Step 7: after payment confirmation page with an option to redirect to home page if any more booking

are needed.

Step 8: else if we select admin login now redirect to admin login page

Step 9: admin enter login credentials verified and admin features page opens if username and password

are correct else show error msg to try again

Step 10: admin can use all the features for password update, after updating goto step 8

Step 11: if logout is chosen in admin features redirected to home/index page.

Conclusion and Unique Selling Points:

This is the prototype of the FlyAway Booking services website.

The Project can be further developed as there is lot of scope left, for example, for value passing between pages the user can input more accurate code which makes it more efficient, the lines code can be manipulated more to increase readability. The project could even go further if it was converted into application hybrid mobile application. The unique point about the project is that the user can use precise navigation and option selection in a smooth manner, the code is designed in such a way that at many points the option is given to return to main context or any other required fields. This Project can be enhanced by creating multiple logins for Airports like that they will update the flight details in real time, and we can also add the charted flights which are available for travel.