**FlyAway (An Airline Booking Portal)**

**DESCRIPTION**

**Project objective:**

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

**Background of the problem statement:**

Flyaway is a ticket-booking portal that lets people book flights on their website.

**TOOLS AND TECHNOLOGY USED:**

* JSP, CSS.
* JAVA Servlets.
* MySQL database using create tables for admin and flight details.
* Tomcat 9.0 as an Application Server.
* Eclipse: As an IDE to code for the application.
* Java: A programming language to develop the web pages, databases.
* Git: To connect and push files from the local system to GitHub
* GitHub: To store the application code and track its versions

Scrum: An efficient agile framework to deliver the product incrementally

**Algorithm:**

1. A Book Flight button in the homepage, which opens a search form to enter travel details that is the date of travel, source, destination, and the number of travellers.
2. Based on the travel details entered, it will show the available flights with their ticket prices fetching data from the MySQL database, connected to JSP and Servlets via Hibernate, and is hosted on AWS RDS for MySQL.
3. Once a user selects a book this flight button, they will be taken to a register page to fill in their personal details.
4. In the next page, they are shown the flight details of the flight that they are booking and form to enter payment details along with checkout button.
5. After clicking the checkout button, they are shown a confirmation page with the details of the booking.
6. For the above features to work, there is an admin backend with the following features:

* An admin login page, where anyone can register as an admin and the admin can change password after login, if they wishes.
* A list of flights where each flight has a source, destination, airline, and ticket price is shown on the admin dashboard.

**Flow chart:**

DATABASE

SEARCH FOR FLIGHT

ADD FLIGHT DETAILS

HOME PAGE FOR FLIGHT BOOK

USER LOGIN

ADMIN LOGIN

BOOKING MESSAGE

PAYMENT FOR BOOKING

FLIGHT DETAILS AND BOOKING