

Phase 2 - Assessment

Project :FlyAway (An Airline Booking Portal).

Developer :Adarsh M L

<https://github.com/Adarshml/Practice-Projects/tree/main/FlyAway2>

1. **Problem Statement :**As a Full Stack Developer, design and develop an airline booking portal named as FlyAway.
 - FlyAway is a ticket-booking portal that lets people book flights on their website..
 - Home page contains three fields.
 - ❖ Admin Login
 - ❖ User Login
 - ❖ User Registration
 - Admin can add new flights and view the list of registered flights.
 - A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
 - Based on the travel details entered, it will show the available flights with their ticket prices.
 - Once a person selects a flight to book, they will be taken to a register page where they must fill in their personal details. In the next page, they are shown the flight details of the flight that they are booking, and the payment is done via a dummy payment gateway. On completion of the payment, they are shown a confirmation page with the details of the booking.
2. **You must use the following**
 - Eclipse/IntelliJ: An IDE to code for the application
 - Java: A programming language to develop the web pages, databases, and others
 - SQL: To create tables for admin, classes, students, and other specifics
 - 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
 - Search and Sort techniques: Data structures used for the project
 - Specification document: Any open-source document or Google Docs
3. **Core concepts used in the project:**

- Used Java Language in Eclipse IDE.
- File Handling
- Collections framework
- Sorting
- Flow Control
- Recursion
- Exception Handling
- Streams API
- MYSQL-workbench

4. Project Users Stories

The project is planned to be completed in 2 sprints. Tasks assumed to be completed in the sprint are:

- · Creating the flow of the application
- · Initializing git repository to track changes as development progresses.
- · Writing the Java program to fulfill the requirements of the project.
- · Testing the Java program with different kinds of User input
- · Pushing code to GitHub.

Sprint 1

- ★ As an admin I can add or modified flight details.
- ★ As an admin I can observe the available flights.
- ★ As an admin I can observe source and destination location.

Sprint 2

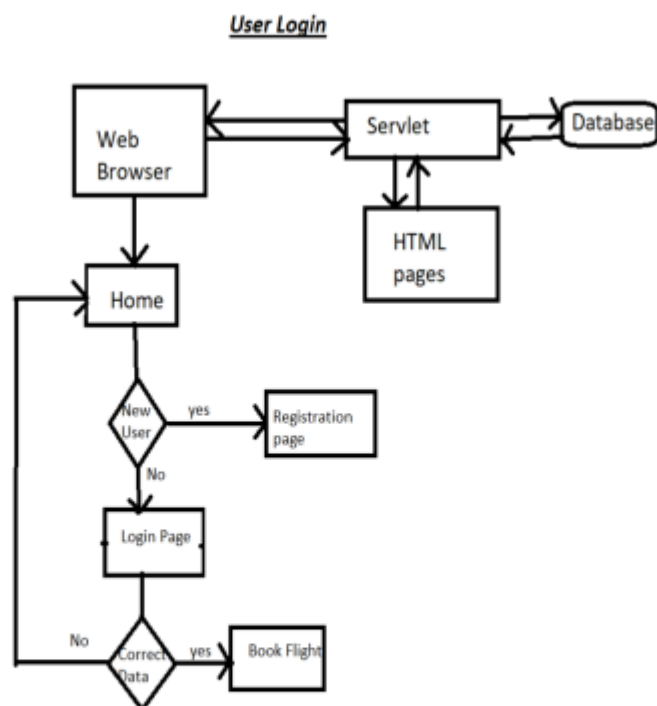
- ★ As a user I can see the options of choosing my preferable airline.
- ★ As a user I want to see if there is a flight available in booking date.
- ★ As a user I want to pay my bills online.
- ★ AS a user I want to store my data.

5. Algorithm

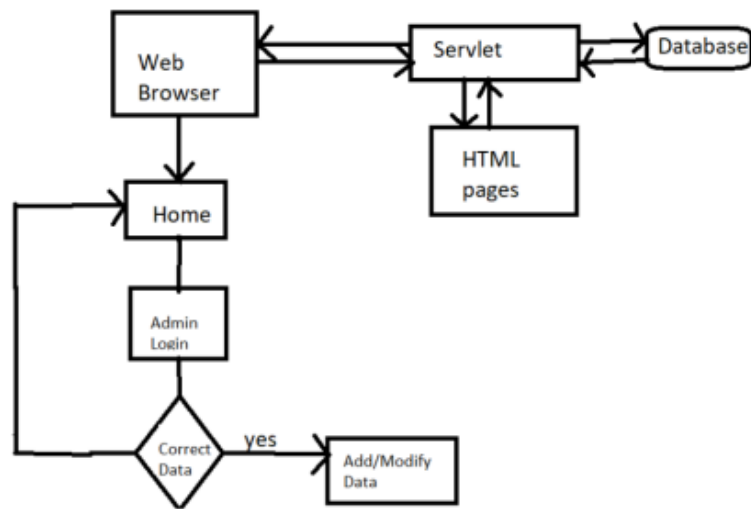
1. Create a database 'flyaway' and add the configuration details in hibernate.cnf.xml file.
2. Create a home page using html and add buttons for user login ,admin login and user registration.

- 3.New user Should register an account with username and password.
- 4.Once the user registration is successfull the user can login to the application using username and password.
- 5.User can book flights by giving the travel details.
- 6.The user gets the detailed list of available flights for that particular day.
- 7.If the user has enough balance to book the tickets then the user gets the a confirmation page with the details of the booking.
- 8.Admin add new flights into the database by providing the flight details.
- 9.Admin can view the registered flights and source and destinations.
- 10.All the database operations are done with the help of hibernate.
- 11.fly.hbm.xml file contains all the hibernate mapping details.
- 12.There are four model java classes for handle the data from the users.(admin.java, user.java, flight.java, place.java)

6. Flow Chart



Admin Login



7. Project git Repositories

Link: <https://github.com/Adarshml/Practice-Projects/tree/main/FlyAway2>