Simple Learn – Phase 2 Project

FlyAway (An Airline Booking Portal)
Specification Document

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.

DEVELOPER DETAILS:

NAME   :   **PREM RAVI**

GitHub Repository   :   *https://github.com/Prem-Ravi/FlyAway.git*

SPRINTS PLANNING:

SPRINT 1:

- Setup the workspace in eclipse IDE.
- Creating GitHub Repository to keep the project in track.
- Flow of the application is designed.
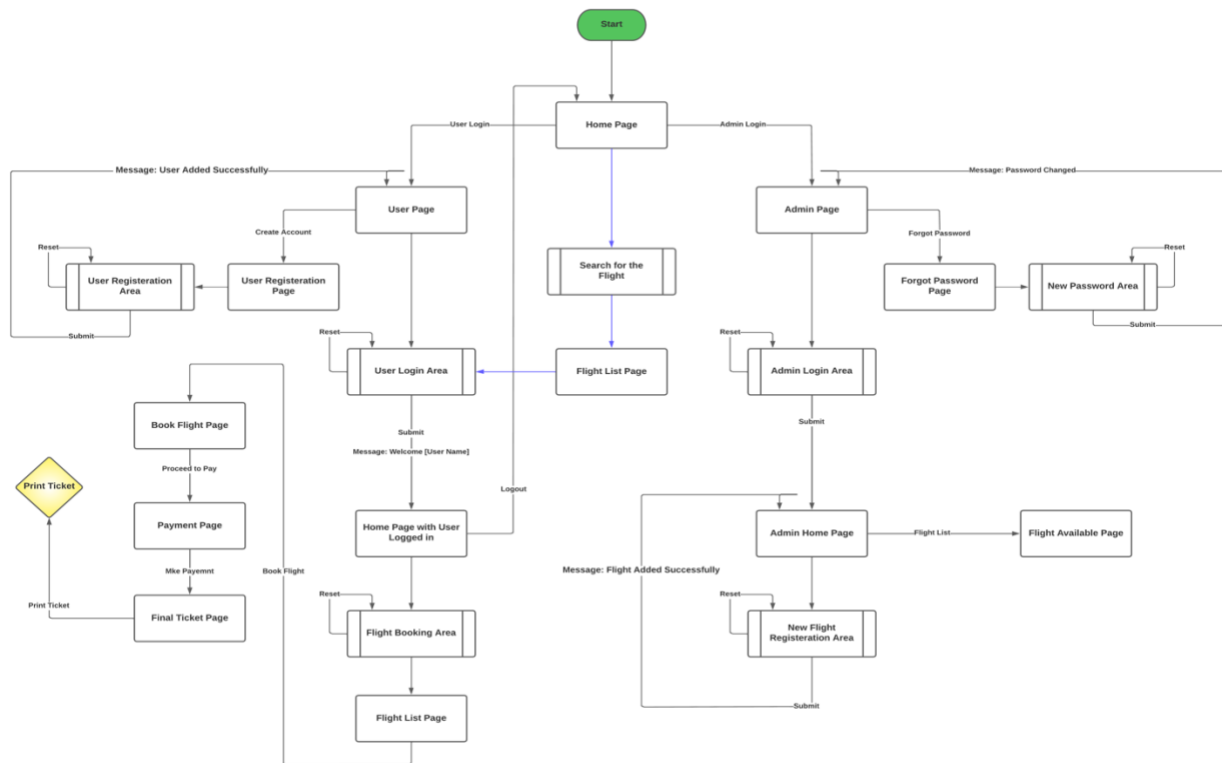- Java Core concepts to be implemented are planned.

SPRINT 2:

- Java, JSP, Servlet Program to implement all the concepts as per the Flow plan.
- Execution of the program as per the requirements.
- Testing the program with different inputs
- Final corrections are done as the application won't close, exit, or throw an exception if the user specifies an invalid input.

SPRINT 3:

- Pushing the code to the GitHub Repository.
- Creating documents like specification document, source code and output screenshots.
- Final check and completion of the project.

FLOW OF THE APPLICATION:

Start

Home Page

User Login

Admin Login

Message: User Added Successfully

User Page

Create Account

Reset

User Registeration Area

User Registeration Page

Submit

Search for the Flight

Admin Page

Forgot Password

Forgot Password Page

Message: Password Changed

Reset

New Password Area

Submit

Reset

User Login Area

Flight List Page

Reset

Admin Login Area

Book Flight Page

Proceed to Pay

Print Ticket

Payment Page

Mke Payemnt

Submit

Message: Welcome [User Name]

Logout

Submit

Print Ticket

Final Ticket Page

Book Flight

Home Page with User Logged in

Admin Home Page

Flight List

Flight Available Page

Message: Flight Added Successfully

Reset

Flight Booking Area

Reset

New Flight Registeration Area

Flight List Page

Submit

CORE CONCEPTS USED IN THE PROJECT:

- Working with database (MySQL)
- Maven
- Exceptions
- Object Oriented Programming
- Collections
- Control structures
- Data Structures
- Hibernate
- JSP (Java Server Pages)
- Servlet

PRODUCT CAPABILITIES, APPEARANCE, AND USER INTERACTIONS:

- 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.

- 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 for MySQL.

- Once a user selects a book this flight button, they will be taken to a register page to fill in their personal details.

- 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 payment button

- After clicking the payment button, they are shown a confirmation page with the details of the booking

- For the above features to work, there is an admin backend with the following features:

  1. An admin login page, where anyone can register as an admin and the admin can change password after login, if they wishes.

  2. A list of flights where each flight has a source, destination, airline, and ticket price is shown on the admin dashboard – Fight List.

PUSHING THE CODE TO GITHUB REPOSITORY:

- Open your command prompt and navigate to the folder where you have created your files.
  cd <folder path>

- Initialize repository using the following command:
  git init

- Add all the files to your git repository using the following command:
  git add .

- Commit the changes using the following command:
  git commit . -m <commit done>

- Push the files to the folder you initially created using the following command:
  git push -u origin main