

FlyAway

Flight Booking App in JAVA - Servlet & JSP

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This document contains sections for:

- ➔ Project overview
- ➔ Project's core concepts
- ➔ Flow of the Application
- ➔ Agile and Scrum: User Stories from the Project
- ➔ Demonstrating product capabilities, its presentation and user interactions.
- ➔ Pushing code on Github
- ➔ Conclusions

The code for this project is hosted at: <https://github.com/SnehalPardeshi/Phase2Project-FlyAway>

Project Overview:

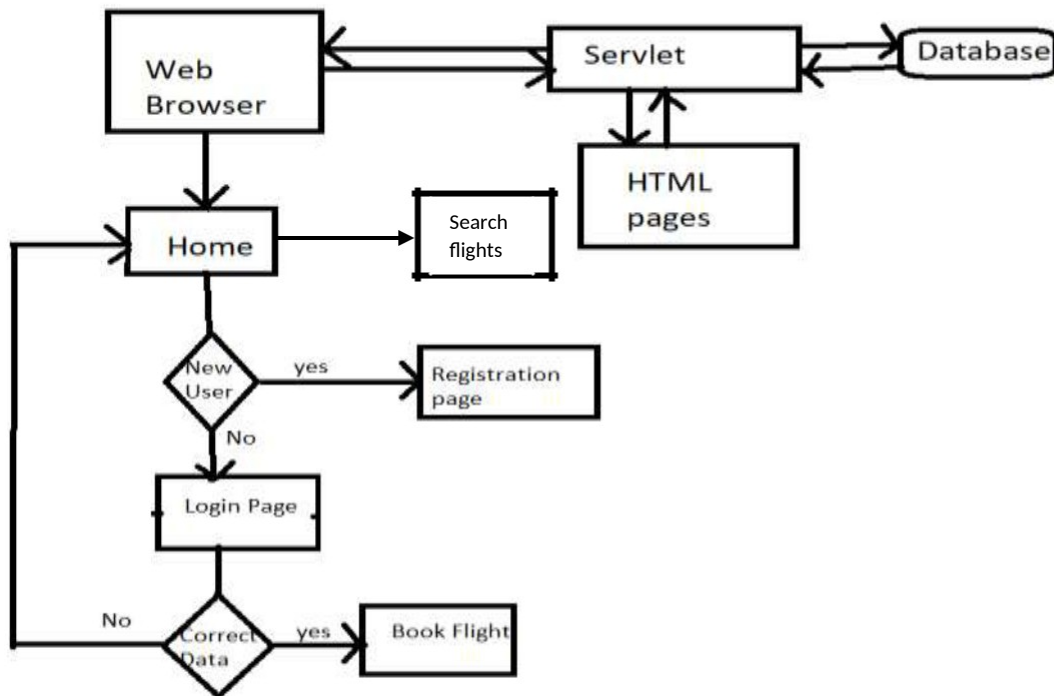
1. Technologies used
 - ➔ Frontend - JSP, HTML, CSS Backend - JAVA Servlets Database - MySQL Application Server - Tomcat 8.5
2. Features
 - ➔ Book Flights - The user fills out flight information (date, source, destination, number of travelers). A query is made to a remote database in order to retrieve associated flights, which are then displayed to the user. User can proceed to book the flight.
 - ➔ Admin - A username and password are required to access the admin dashboard. After logging in, the administrator can change his password or can insert the new flights.

Project's Core concepts:

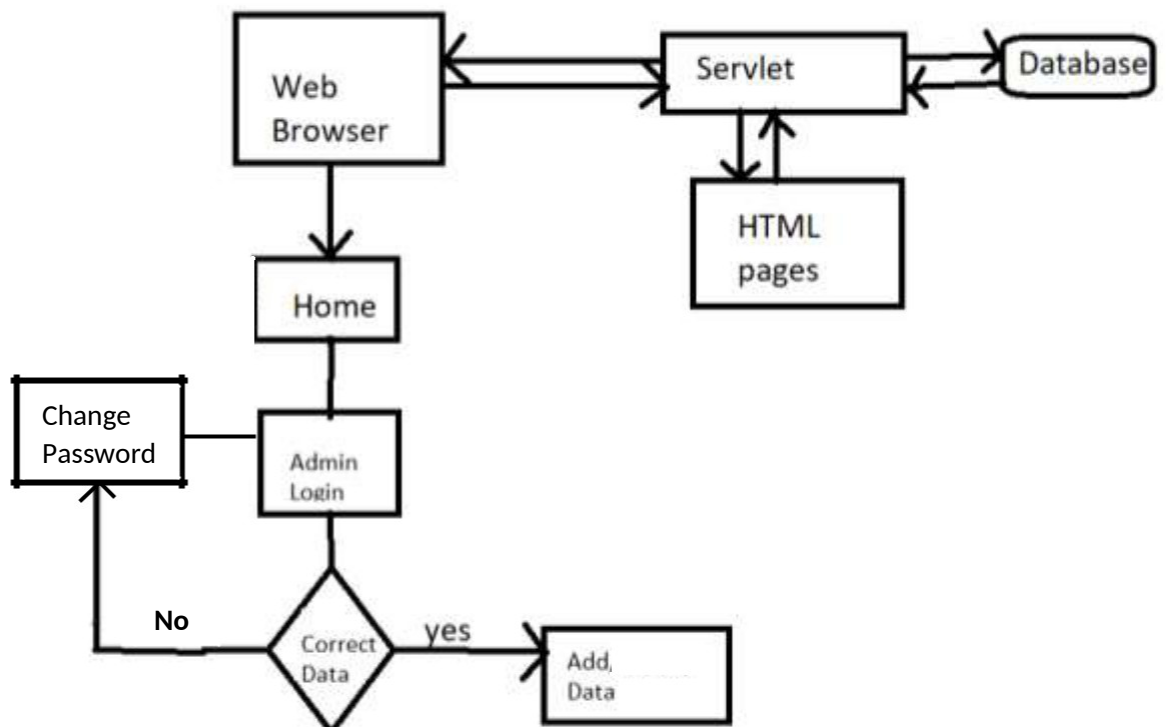
- ➔ Language: Java (Eclipse IDE)
- ➔ Concepts:
 - File Handling,
 - Collections framework,
 - Exception Handling,
 - MYSQL-workbench,
 - Recursion,
 - Sorting,
 - Flow Control.

Flow chart of Application

User Login



Admin Login



Agile and Scrum: Users Stories

The project will be finished in three sprints. The following tasks are expected to be performed throughout the sprint:

Creating the application's flow

Setting up a git repository to track changes as the project develops.

Writing a Java programme to meet the project's requirements.

Putting the Java software through its paces with various types of user input Using GitHub to push code.

Users Stories to be covered per sprint:

Sprint 1

1. As a user, I want to create account on website.
2. As a user, I can login and logout.

Sprint 2

3. As a user, I want to search flight options available to me based on date, source and destination.
4. As an administrator, I can login to website.

Sprint 3

5. As an administrator, I can add more flights.
6. As an administrator, I can change my password.

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 message>

- Push the files to the folder you initially created using the following command:

git push -u origin master

Conclusions

An application with a sprint duration of three sprints has been developed in the programme. This application manages the *FlyAway* data. The user can create account and search or book a flight. The administrator can manipulate the flights data by logging in with an email ID and password. This application will be improved further by adding following features:

- Form/Input Validation
- Better CSS/Frontend Styles
- Modify available flights data
- Show previous flight bookings
- Ticket Payment

