# FlyInn (Airline Booking Portal)

Developed by Liladhar Patil
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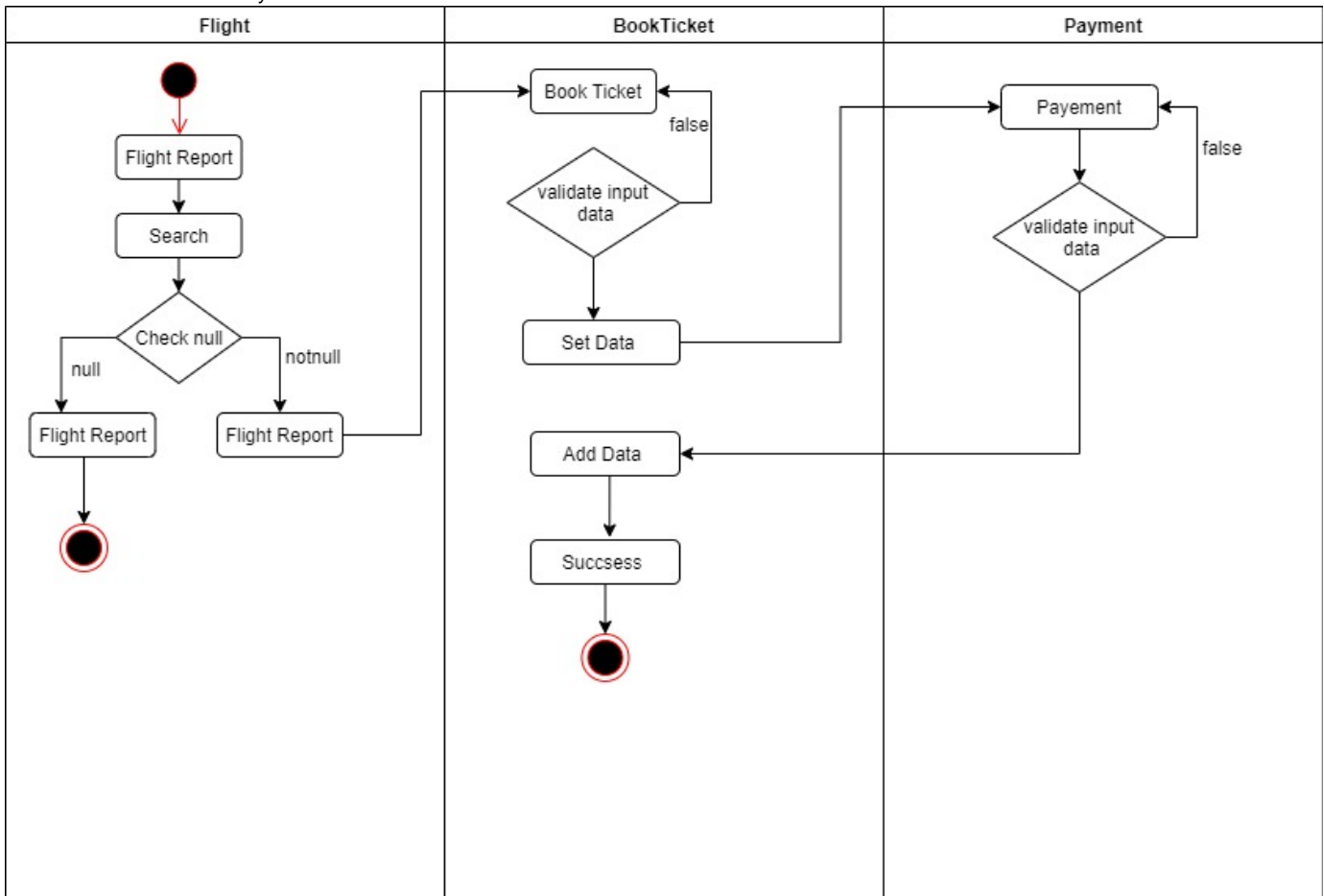GitHub link : https://github.com/patilliladhar210/airline

## Overview :

A detailed explanation of the project will be provided in this document.

## Contents :

1. Flowchart
2. Algorithm
3. Sprint Planning
4. Core Concepts Used
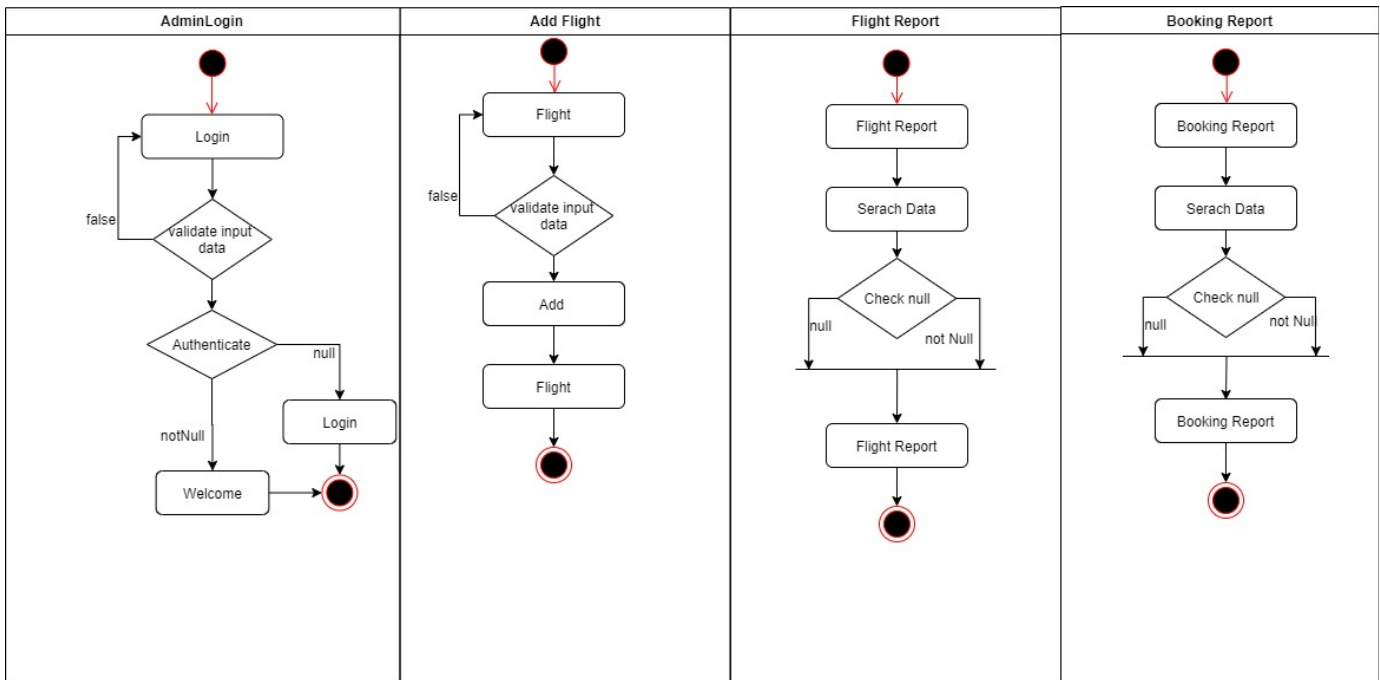5. Link to GitHub Repository
6. Conclusion

## 1. Flowcharts :

- Flowchart for Activity on User Side:



(Image attached separately on GitHub and Simplilearn)

- Flowchart for Activity on Admin Side:

**AdminLogin**

Login

validate input data

false

Authenticate

null

notNull

Login

Welcome

**Add Flight**

Flight

false

validate input data

Add

Flight

**Flight Report**

Flight Report

Serach Data

Check null

null

not Null

Flight Report

**Booking Report**

Booking Report

Serach Data

Check null

null

not Nul

Booking Report

(Image attached separately on GitHub and Simplilearn)

## 3. Algorithm :

- Welcome page displays the name of the project.
- The Header file (available through all the pages) displays 4 options namely:
  - Home - To take the user to Home page.
  - Flight - Enables user to search for flight using Source, Destination and Dates.
  - Login -
    - Admin can login using admins login and password to access Admin Features.
    - User can register themselves if not already done so, and can login.
- The Footer file includes the name of Developer and Simplilearns name (available through all the pages).

- **On User Side :**
  - Based on the travel details entered in the Flights section, the available flights are shown to the user.
  - Once the user selects a flight to book, they are taken to a Login/register page where they must either login if already registered or fill in their personal details to Register.
  - A demo user login details is as follows:
    - Username : Abc@gmail.com
    - Password : Abc@123
  - In the next page, user is shown the flight details of the flight that they are booking.
  - User is shown a dummy payment gateway to make a dummy payment.
  - On completion of the payment, user is shown a confirmation page with the details of the booking.

- **On Admin Side** (Includes additional features, not specified in project requirements) :
  - Admin can Login using the same Login page on the Header.
  - Admin Login and Passwords are as follows :
    - Username : Admin@gmail.com
    - Password : Admin@123
  - Admin has the options to add a flight by entering all its details.
  - Admin can edit existing flights as well.
  - Admin can view all the existing flights and the booking report for the flight.

- **On the Database :**
  - A list of all the Flights with all the details of Source, Destination and cost etc..
  - A list of all the bookings made.
  - A list of all the users registered.

- **Additional Features :**
  - Logout option available on the Header itself.
  - Header greets the logged in person as "Hi, Username"
  - If no account is logged in, the header greets as "Hi, Guest".
  - Password must have :
    - 1 special case character.
    - 1 uppercase character.
    - 1 number.

## 4. Sprint Planning :

- Incase the images are not readable be advised that All Images attached separately on GitHub and Simplilearn submition form as well.
- These images represent the sprints planned, each image is for an individual sprint.
- Each sprint represent the start and completion date, actions taken, and the time spent on each action in graphical form.
- Sprint 1 :

| Epic | | JUN<br>S 19  S 20  M 21  T 22  W 23  T 24  F 25  S 26  S 27 | JUL<br>M 28  T 29  W 30  T 1  F 2  S 3  S 4 | JUL<br>M 5  T 6  W 7  T 8  F 9  S 10 |
|------|--|-----|-----|-----|
| | | AIR Sprint 1 | | AIR... |
| AIR-3 | Create A Welcome Page | �e | | |
| AIR-5 | Setup Database for Login | ▬▬▬ | | |
| AIR-4 | Create An Admin Login Page | ▬▬▬ | | |
| AIR-6 | Setup a list of Flights in Database | ▬▬▬ | | |
| AIR-7 | Enable Admin to Add Flights | | ▬▬▬ | |
| AIR-10 | Create a page where Admin can view all the flights | | ▬▬▬ | |
| AIR-11 | Create a Registration Page for user | | | ▬▬▬ |
| AIR-12 | Create a flight search page | | | |
| AIR-15 | Create a book ticket summary page | | | ▬ |
| AIR-16 | create a payments page | | | |
| AIR-17 | create a booking confirmation page | | | |
| AIR-9 | Flight Booking report for admin page | | | |

- Sprint 2 :

| Epic | | | | | | | | | JUL | | | | | | | JUL | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S 10 | S 11 | M 12 | T 13 | W 14 | T 15 | F 16 | S 17 | S 18 | M 19 | T 20 | W 21 | T 22 | F 23 | S 24 | S 25 |
| | | | | | | AIR Sprint 2 | | | | | | | | | | AIR... |
| ⚡ AIR-3 Create A Welcome Page | | | | | | | | | | | | | | | | |
| ⚡ AIR-5 Setup Database for Login | | | | | | | | | | | | | | | | |
| ⚡ AIR-4 Create An Admin Login Page | | | | | | | | | | | | | | | | |
| › ⚡ AIR-6 Setup a list of Flights in Database | | | | | | | | | | | | | | | | |
| ⚡ AIR-7 Enable Admin to Add Flights | | | | | | | | | | | | | | | | |
| ⚡ AIR-10 Create a page where Admin can view all the flights | | | | | | | | | | | | | | | | |
| ⚡ AIR-11 Create a Registration Page for user | | | | | | | | | | | | | | | | |
| › ⚡ AIR-12 Create a flight search page | | | | | | | | | | | | | | | | |
| ⚡ AIR-15 Create a book ticket summary page | ██ | ██ | ██ | ██ | | | | | | | | | | | | |
| ⚡ AIR-16 create a payments page | | | | | ██ | ██ | ██ | ██ | | | | | | | | |
| ⚡ AIR-17 create a booking confirmation page | | | | | | | | | ██ | ██ | ██ | | | | | |
| ⚡ AIR-9 Flight Booking report for admin page | | | | | | | | | | | ██ | ██ | ██ | | | |
| ⚡ AIR-19 Finishing and Enhancing of the project | | | | | | | | | | | | | | | | ██ |
| ⚡ AIR-18 Create Documentation | | | | | | | | | | | | | | | | |

- Sprint 3 :

| Epic | | JUL | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|
| | | S 25 | M 26 | T 27 | W 28 | T 29 | F 30 | S 31 | S 1 | M 2 |
| | | | | AIR Sprint 3 | | | | | |
| ⚡ AIR-3 Create A Welcome Page | | | | | | | | | |
| ⚡ AIR-5 Setup Database for Login | | | | | | | | | |
| ⚡ AIR-4 Create An Admin Login Page | | | | | | | | | |
| › ⚡ AIR-6 Setup a list of Flights in Database | | | | | | | | | |
| ⚡ AIR-7 Enable Admin to Add Flights | | | | | | | | | |
| ⚡ AIR-10 Create a page where Admin can view all the flights | | | | | | | | | |
| ⚡ AIR-11 Create a Registration Page for user | | | | | | | | | |
| › ⚡ AIR-12 Create a flight search page | | | | | | | | | |
| ⚡ AIR-15 Create a book ticket summary page | | | | | | | | | |
| ⚡ AIR-16 create a payments page | | | | | | | | | |
| ⚡ AIR-17 create a booking confirmation page | | | | | | | | | |
| ⚡ AIR-9 Flight Booking report for admin page | | | | | | | | | |
| ⚡ AIR-19 Finishing and Enhancing of the project | | | | | | | | | |
| ⚡ AIR-18 Create Documentation | | | | | | | | | |

## 5. Core Concepts Used :

Operating system            :        Windows  Family

Front End                 :        CSS, JSP, HTML

Back End                 :        JAVA, Servlet, JDBC.

- CSS, JSP, HTML have been used to design the header footer and the overall design.
- Backend process have been implemented using JAVA and Servlet.
- To connect the program with the database JDBC was used.
- Database used is MYSQL.
- **Note :** you may have to change the password for the MYSQL depending on your configuration.
- For my MYSQL username is "root" and password is "password".
- The project was built using MAVEN, and all the dependencies have been added in the POM.XML file.
- MYSQL database file will be provided on the GitHub Link.

## 6. GitHub Link :

https://github.com/patilliladhar210/airline

## 7. Conclusion :

Successfully implemented a project to meet all the requirements mentioned. Thankyou.