

FlyAway (An Airline Booking Portal)

This document contains:

- Project Details
- Sprint planning and Task completion
- Core concepts used
- Website features
- Flow Chart
- Tables for Database
- User stories

The main theme of the project is to design and develop an airline booking portal named as FlyAway

The code for this project is pushed to <https://github.com/tarun7781/JAVA--FSD.git>.

Sprints Planning:

Planned 3 sprints for developing this application prototype

- Concept Clarification
- Developing
- Exceptional Handling and Testing

Core Concepts used:

- Java
- Data Structures
- Servlets
- JSP
- HTML/CSS Hibernate (ORM framework)
- MySQL

Website features:

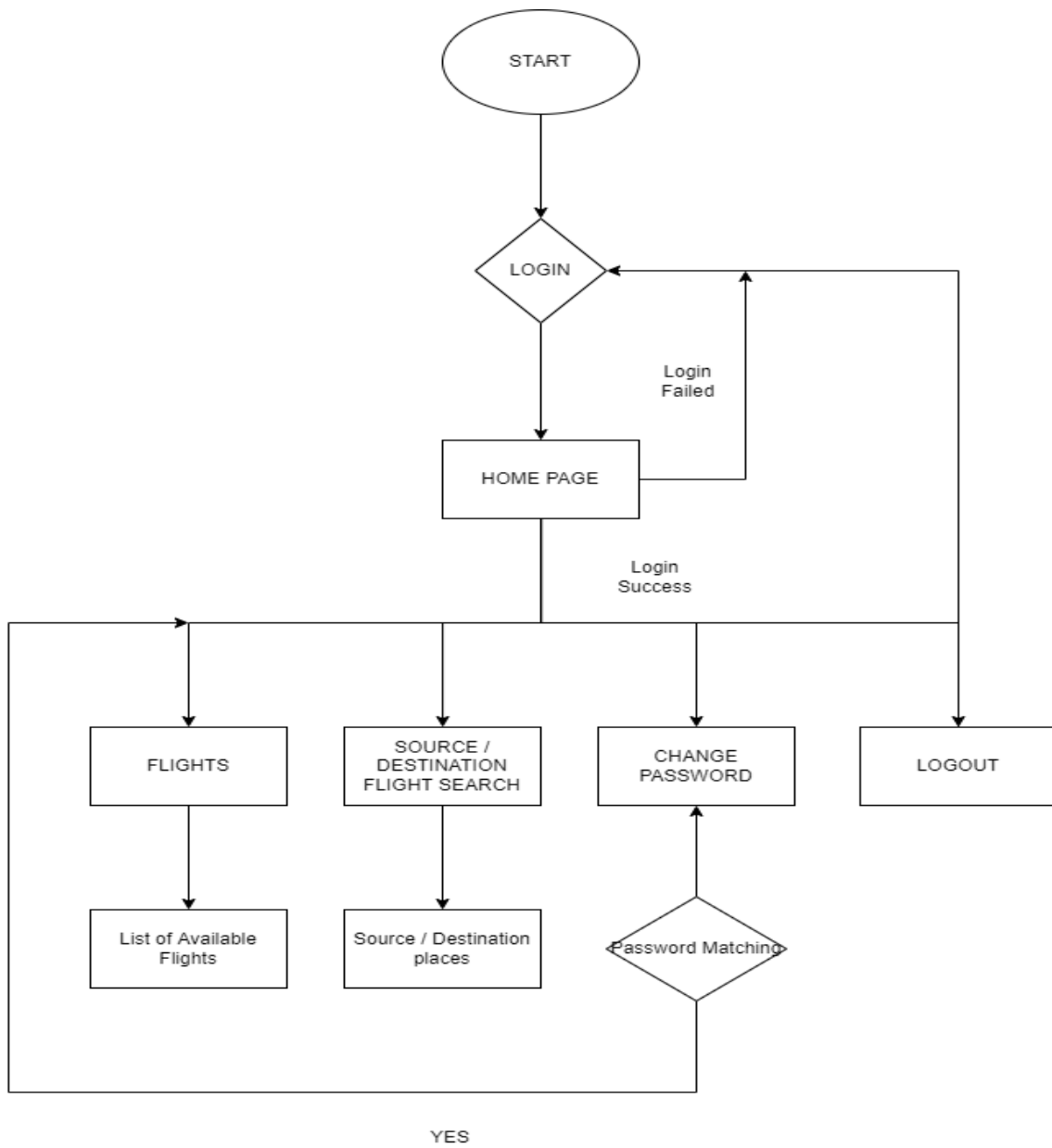
- A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
- Based on the travel details entered, it will show the available flights with their ticket prices.
- Once a person selects a flight to book, they will be taken to 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.

For the above features to work, there will be an admin backend with the following features:

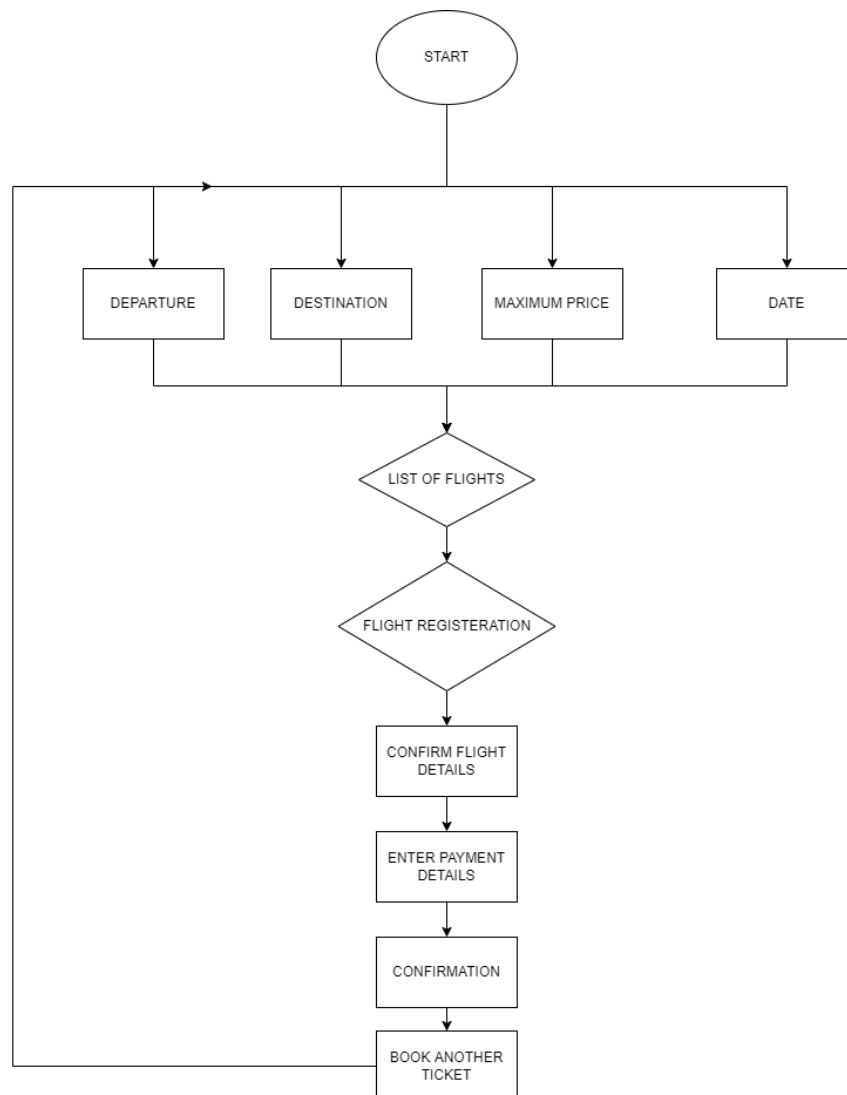
- An admin login page where the admin can change the password after login, if he wishes
- A master list of places for source and destination
- A master list of airlines
- A list of flights where each flight has a source, destination, airline, and ticket price

Flow of the Project:

For ADMIN:



For USER:



Tables for FlyAwayDB

- Airline (a_id, airline)
- Flight (f_id, number_of_seats, price, source, destination, date_of_departure, date_of_arrival, airline)
- Person (per_id, first_name, last_name, email, birthday, timebooked)
- personflight (per_id, f_id, flight_details)
- Payment (pay_id, card_number, expiration_month, expiration_year, security_code, card_fname, card_lname, per_id)
- Admin (admin_id, first_name, last_name, email, password)

User Stories

- As a user, I want to be able to search for available flights (Date of travel, source, destination, number of seats available, price), So that I can select a flight easily
- As a user, I want to see the available flights with their ticket prices, So that I can choose the best option for me
- As a ticket-booking manager, I want to be able users to record their person details, So that I know who is on what flight
- As a ticket-booking manager, I want users to confirm their flight details prior to payment, So that we can avoid refunds
- As a ticket-booking manager, I want users to pay online, So we can receive payment immediately
- As a user, I want a confirmation page with proof of payment and details of my booking, So that I can remember the finer details on the day of my flight
- As an admin, I want to be able to change my password after login, So that I can keep my account secure
- As an admin, I want to view a master list of places for source and destination, So that I know all of the places my booking portal offers
- As an admin, I want to view a list of airlines, So that I know what airlines are available to my customers
- As an admin, I want to view a list of all flights where each flight has a source, destination, airline, ticket price, and number of seats empty, So that I know which flights to advertise more heavily