

# **FlyAway (An Airline Booking Portal)**

## **Document contains:**

- Project and developer details
- Sprints planned and the tasks achieved in them
- Algorithms and flowcharts of the application
- List of core concepts used
- Links to the GitHub repository to verify the project completion
- Conclusions

## **Project and developer details**

### **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.

### **Background of the problem statement:**

FlyAway is a ticket-booking portal that lets people book flights on their website.

### **The website needs to have the following 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

The goal of the company is to deliver a high-end quality product as early as possible.

**The flow and features of the application:**

- Plan more than two sprints to complete the application
- Document the flow of the application and prepare a flow chart
- List the core concepts and algorithms being used to complete this application
- Implement the appropriate concepts, such as exceptions, collections, and sorting techniques for source code optimization and increased performance

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**Sprints planned and the tasks achieved in them**

There are three sprints for this project

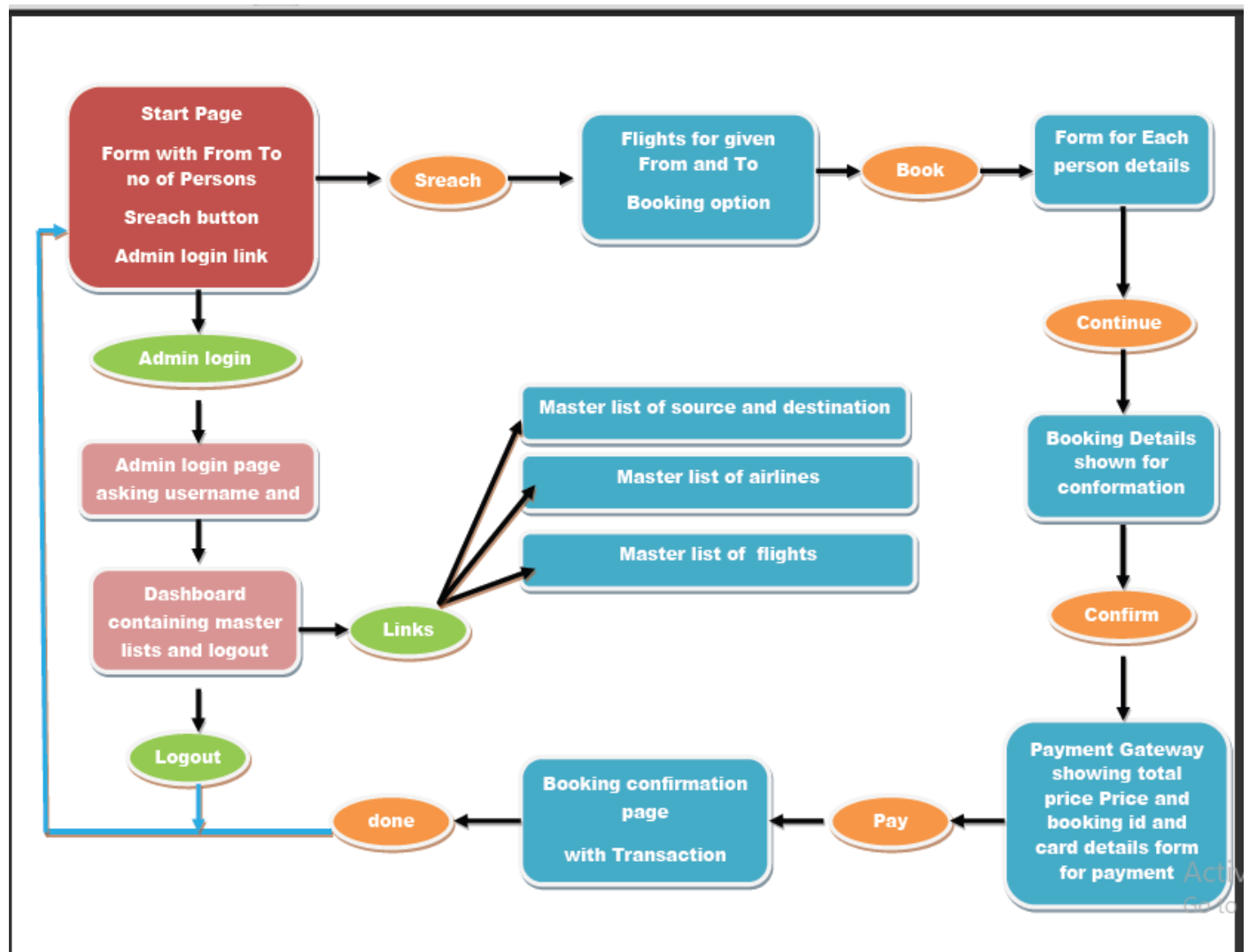
Sprint-1: Studied the Features of project and prepared the flow chart and created Git Repository.

Sprint-2: created Jsp pages and written servlet java program for booking portal and All the features are being implemented.

Sprint-3: Final testing of website using different inputs and pushing it to GitHub.

## Algorithms and flowcharts of the application

### Flow chart:



1. Home page is created using jsp.



*FlyAway*

Email Id   
Password

login

password changed successfully



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2. Given input is being verified in the servlet, if it's a wrong input it is being redirected to the same page. if it's right all the flights are being shown for the given source and destination through database which is done by another servlet.



*FlyAway*

From : Hyderabad → To : Surat

Departure Date : Tue Oct 11 00:00:00 IST 2022

Flight No	Airline	Departure Time	Source	Destination	Arrival Time	Trip Fare	
3098	Indigo	13:26	Hyderabad	Surat	15:45	3400.0	<input type="button" value="BOOK NOW"/>
13090	Deccan	12:25	Hyderabad	Surat	03:45	4100.0	<input type="button" value="BOOK NOW"/>




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3. if flight is selected and book now button is clicked then it's being redirected to user details page form according to the no of persons given.

user localhost:8087/fly\_away\_proj/flightsServlet2

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# FlyAway

## Enter Details

**Person 1**

Name

Gender

Age

Email Id

Mobile no

**Person 2**


Name

Gender

Age

Email Id


Mobile no



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localhost:8087/fly\_away\_proj/use localhost:8087/fly\_away\_proj/userdetailsverify

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# FlyAway


**From : Hyderabad → To : Surat**

**Price : Rs 4100.0/-**

**No of Person : 2**

**Total Price : Rs 8200.0/-**

**Flight No :13090 Departure Time :12:25 Arrival Time :03:45**



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4.if confirm button is clicked and it is redirected to payment gateway page.



## FlyAway

### FlyPay

( A Secure Payment Gateway.)

Company Flyaway  
Order Number 121392  
Total Amount Rs 8200.0 /-

#### Card Payment

Card Number   
Expiry Date    
Password

Pay

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5.if wrong details are entered it redirects to same page for again entering the details and when data is correctly entered it passes it to next page this is done using servlets, it shows warning on same page and a data is entered again.



## FlyAway

### FlyPay

( A Secure Payment Gateway.)

Company Flyaway  
Order Number 121392  
Total Amount Rs 8200.0 /-

#### Card Payment

Card Number   
Expiry Date    
Password

Pay

Activate Windows  
Go to Settings to activate Windows.



*FlyAway*

**FlyPay**

*( A Secure Payment Gateway )*

Company      Flyaway  
Order Number    121392  
Total Amount Rs    8200.0 /-

**Card Payment**

Card Number   
Expiry Date    
Password

Pay

**Hello user! Card details entered is wrong .**

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6.If pay button is clicked ,on successful transaction shows booking id and transaction id are shown in new page.



 **Payment Successful !**

**Thank you! Your Booking has been confirmed.**

Booking ID : 121392    |    Transaction ID : 718252221    |    Total Amount Paid : 8200.0

*Your booking details have been sent to your mail.*

Done

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## Coming to admin part

1.This data of username and password entered is being verified by the servlet through connecting to the database. If details entered is wrong then it redirects to the same page showing warning.



*FlyAway*

Email Id   
Password



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2.if data entered is matched with the database then servlet redirect to admin dashboard.



*FlyAway*

welcome to your Dashbaord

[Change password](#)  
[List of Source and Destination](#)  
[List of Airlines](#)  
[List of Flights](#)  
[Flights Trip Details Modification](#)  
[Logout](#)



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3. if password is null it shows warning if it is not null password is being updated in database  
And redirected to login page showing password change.





***FlyAway***

Enter New password



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***FlyAway***

Email Id   
Password

password changed sucessfully



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4.if list of source and destination link is clicked on dashboard the data is being fetched and shown in the page using servlet



[Dashboard](#)

List of Sources and Destination

Source	Destination
Vishakapatnam	Hyderabad
Surat	Mumbai
Kolkata	Chennai
Hyderabad	Surat
Surat	Chennai
Jaipur	Bengaluru
Vishakapatnam	Pune
Jaipur	Pune
Mumbai	Hyderabad
Hyderabad	Bengaluru
Hyderabad	Pune
Hyderabad	Mumbai
Hyderabad	Jaipur
Mumbai	Vishakapatnam
Hyderabad	Kolkata
Hyderabad	Lucknow

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5.if list of flights link is clicked on dashboard the data is being fetched and shown in the page using servlet



[Dashboard](#)

List of Airlines

Airline
Deccan
Indigo
AirIndia
TruJet

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## FlyAway

### [Dashboard](#)

#### List of Flights

Flight No	Airline	Depature Time	Source	Destination	Arrival Time	Trip Fare
2354	Deccan	19:34	Vishakapatnam	Hyderabad	23:57	4090.0
2434	Indigo	13:45	Surat	Mumbai	19:45	4000.0
2445	Indigo	02:45	Kolkata	Chennai	05:00	3000.0
3098	Indigo	13:26	Hyderabad	Surat	15:45	3400.0
3425	AirIndia	12:50	Surat	Chennai	17:50	3265.0
4590	TruJet	23:45	Jaipur	Bengaluru	02:45	4300.0
5668	Deccan	09:45	Vishakapatnam	Pune	11:33	3445.0
5900	Deccan	22:34	Jaipur	Pune	00:10	4900.0
10287	Indigo	21:00	Mumbai	Hyderabad	00:10	3800.0
12080	AirIndia	23:39	Hyderabad	Bengaluru	01:25	3000.0
12085	Indigo	22:22	Hyderabad	Pune	00:35	4500.0
12090	Indigo	10:11	Hyderabad	Mumbai	13:26	4010.0
12093	Indigo	12:29	Hyderabad	Jaipur	14:26	2590.0
12567	TruJet	13:45	Mumbai	Vishakapatnam	15:59	5300.0
12870	TruJet	21:28	Hyderabad	Kolkata	00:30	3400.0
12960	Indigo	07:34	Hyderabad	Lucknow	04:45	3900.0

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6.for adding flight details in database ,this data are being filled an clicked on add flight bbutton, for deleting flight details from database ,flight no is entered.



## FlyAway

### Add Flight Details

Flight No	<input type="text"/>
Airline Name	<input type="text"/>
Source	<input type="text" value="Hyderabad"/>
Destination	<input type="text" value="Surat"/>
Departure Time	<input type="text" value="hh:mm"/>
Arrival Time	<input type="text" value="hh:mm"/>
Trip Fare	<input type="text"/>

[back](#)

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## FlyAway

### Delete Flight Details

Flight No

Delete flight

[back](#)



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# Database

MySQL 8.0 Command Line Client

— □ X

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use flyaway;

Database changed

mysql> show tables;

Tables_in_flyaway	
admin	
flightdto	
sordes	

3 rows in set (0.14 sec)

mysql> select \* from admin;

EmailId	Password
admin@flyaway.com	12345

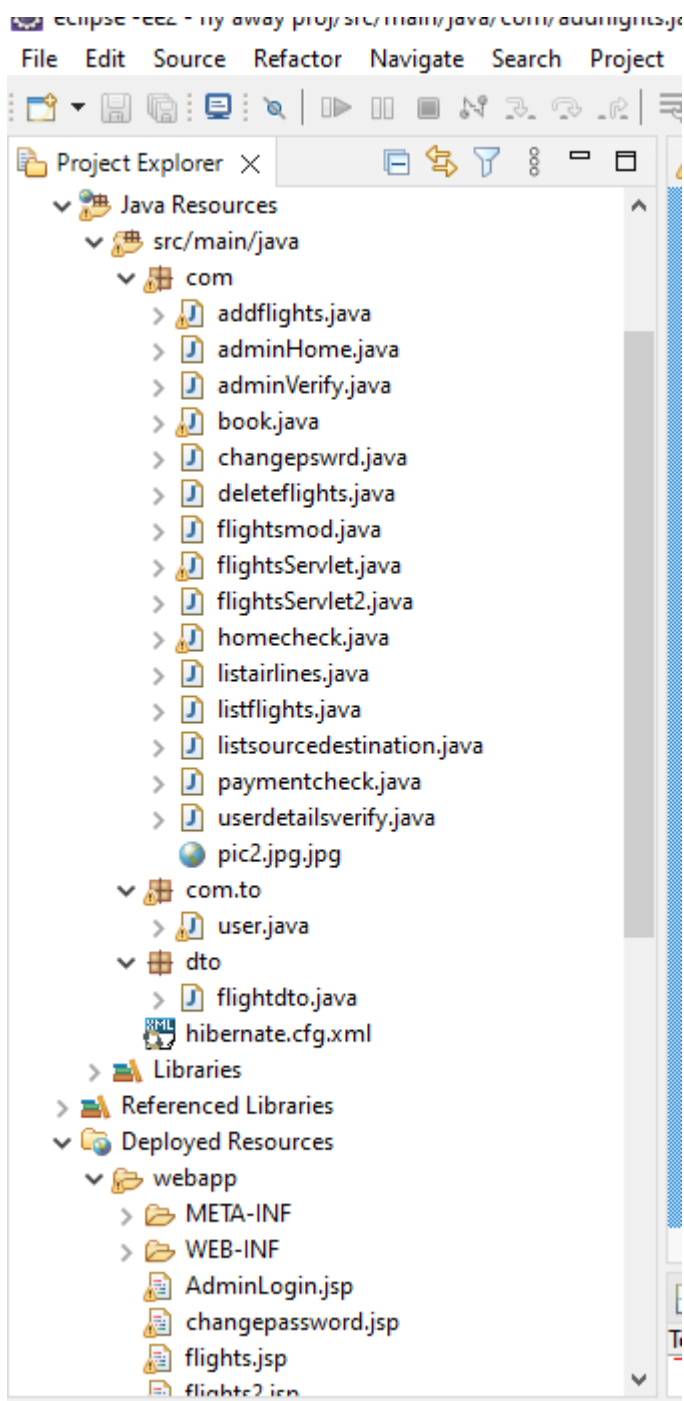
1 row in set (0.00 sec)

mysql> select \* from flightdto;

flightno	airline	arrivaltime	departuretime	destination	source	tripfare
2354	Deccan	23:57	19:34	Hyderabad	Vishakapatnam	4090
2434	Indigo	19:45	13:45	Mumbai	Surat	4000
2445	Indigo	05:00	02:45	Chennai	Kolkata	3000
3098	Indigo	15:45	13:26	Surat	Hyderabad	3400
3425	AirIndia	17:50	12:50	Chennai	Surat	3265
4590	TruJet	02:45	23:45	Bengaluru	Jaipur	4300
5668	Deccan	11:33	09:45	Pune	Vishakapatnam	3445
5900	Deccan	00:10	22:34	Pune	Jaipur	4900
10287	Indigo	00:10	21:00	Hyderabad	Mumbai	3800
12080	AirIndia	01:25	23:39	Bengaluru	Hyderabad	3000
12085	Indigo	00:35	22:22	Pune	Hyderabad	4500
12090	Indigo	13:26	10:11	Mumbai	Hyderabad	4010
12093	Indigo	14:26	12:29	Jaipur	Hyderabad	2590
12567	TruJet	15:59	13:45	Vishakapatnam	Mumbai	5300
12870	TruJet	00:30	21:28	Kolkata	Hyderabad	3400
12960	Indigo	04:45	02:34	Lucknow	Hyderabad	3900

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# Files



## List of core concept used:

Java , Servlet, Jsp, Jdbc, Hibernate, MySQL database, Collections, and sorting techniques .

## **Links to the GitHub repository to verify the project completion**

[https://github.com/Svsai97/FlyAway\\_Project2.git](https://github.com/Svsai97/FlyAway_Project2.git)

### **Conclusion:**

The Web application is prepared according to the provided flow and features of the application and everything followed according to the instructions.