**Project and developer details:**

This project named “FlyAway (Web application)” is to provide the services of booking flights to the concerned clients and also provide an admin portal for easy management of database. This project is developed by Srichandan Yerragudi.

**Sprints Planned:**

Four sprints were planned and all the tasks were achieved successfully as explained below sprint-wise

1. **Sprint-I**

* Understood the specifications needed for the application to function as desired and started to prioritize the tasks.
* Homepage was created.

1. **Sprint-II**

* Database operations were developed and tested successfully.

1. **Sprint-III**

* Admin Portal was developed and tested successfully.

1. **Sprint-IV**

* Client side development, transaction gateway integration was done and tested successfully.

**Flowchart of the application:**

Home page

Client/Customer  
(searching for flights)

Admin login

Password change

Search for flight

Retrieve source and destinations

Selection of Airline

Retrieve All the data

Retrieve Airlines

confirmation of details

Payment gateway

Booking Details

**Algorithm of the application:**

Admin Side:

1. Admin enters the username and password.
2. The service connects to the database and retrieves the password against the username
3. If username corresponds to the password, then it validates and proceeds to the next page
4. depending on the decision made to retrieve all the data, change password, retrieve sources and destinations. The next page is displayed.
5. To change password, admin needs to click on change password and enter the new password and click on submit. If the password matches and database operation were to be successful. It displays success on the page else unsuccessful.
6. By clicking the button “Sources And Destinations” admin will get all the sources and destinations present in the MySQL database.
7. By clicking the button “List of airlines” admin will get all the distinct airlines present in the MySQL database.
8. By clicking the button “List Everything” admin will get all the data present in the MySQL database.

Client Side

1. Customer enters source, destination, date of departure and number of passengers and clicks on the search button.
2. From the inputs taken, a query hits the database and returns back the data as a response in the form of set. From where the data is fetched and showed to the customer.
3. Customer can then proceed further by clicking on book and this would then redirect them to confirmation page where price is shown.
4. Customer then can click on pay where, it redirects them to payment gateway where the credit card details are needed to complete the transaction.
5. Once the transaction is successful, the booked successfully page is displayed along with the ticket details.

**Core Concepts used in the code:**

The following core concepts were used in the following code,

* DBMS
* HTML
* JSP
* Looping Statements
* Conditional Statements
* Try Catch and throw
* Switch case statements
* Type casting
* Generics

**GitHub Link:**

* <https://github.com/chan19dot/SimpliLearnPhase2>

**Conclusion:**

The application can further be improved by using CSS, JavaScript and giving the application a much friendly GUI. This will also enhance the visual appearance of the application. Unique selling points of this application would be that it would decrease the human effort of going to a ticket counter and buying the ticket by following a queue whereas, it could be booked instantly and increase productivity.