FLY AWAY

(An AIRLINE BOOKING PORTAL)

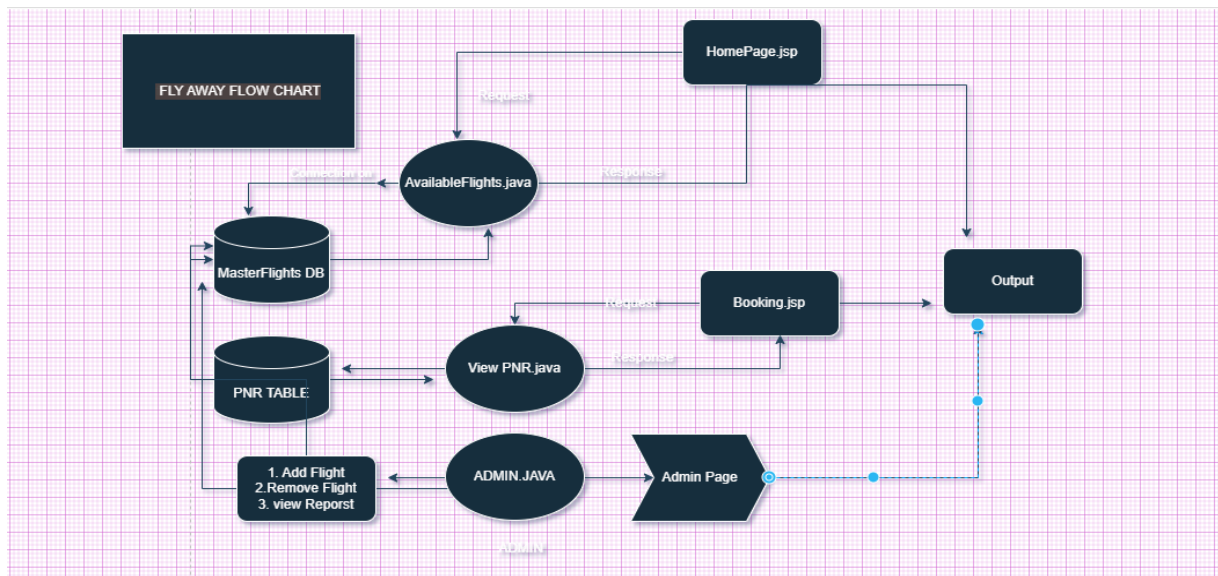GITHUB LINK: https://github.com/AnishAugustin09/FLY-AWAY

This document contains the**:**

Sprint Planning:

For this project, I've planned to complete the project in 5 Sprints. And the task is completed according to that.

Flow of Project:

Concepts used in Project:

- JSP, HTML & CSS
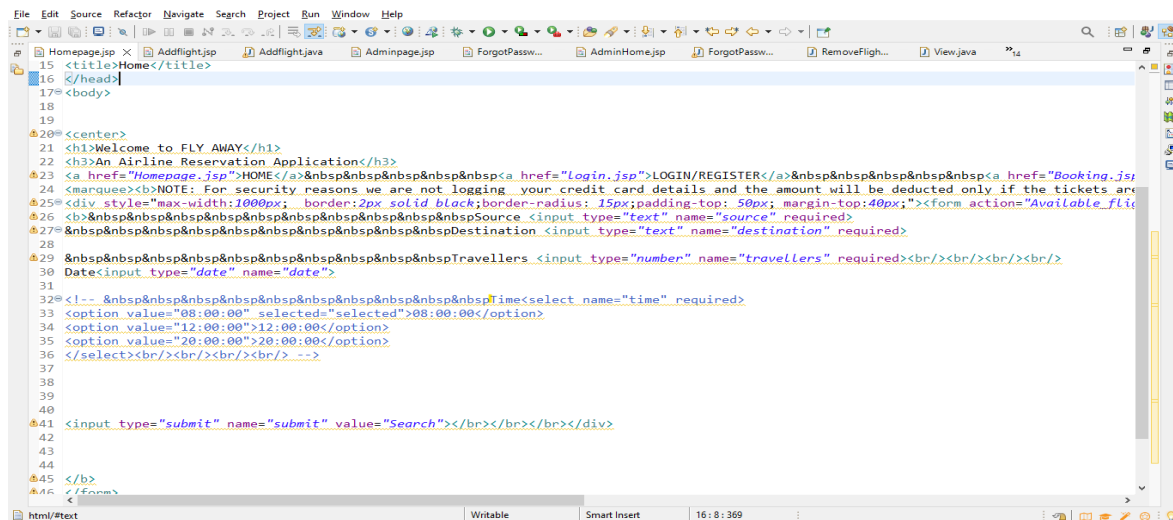- JAVA , SERVLET
- MYSQL

Tools & Tech used in Project:

- Eclipse IDE
- Tomcat Server 9.0
- Git & Github

Working on Eclipse IDE:

Step 1: Creating a new Dynamic Web Project in Eclipse

- Open Eclipse

- Go to File -> New -> Dynamic Web Project --> Next.

- Type in any project name and click on "Finish."

- Select your project and go to WEB-INF -> New -> JSP.

- Enter JSP file name and click on "Finish."

Step 2: Writing a program in JSP for the entry point of the application (**HOMEPAGE.JSP).**

Step 3: Create a servlet page which get request and send response (**AVAILABLE FLIGHTS.Java**).
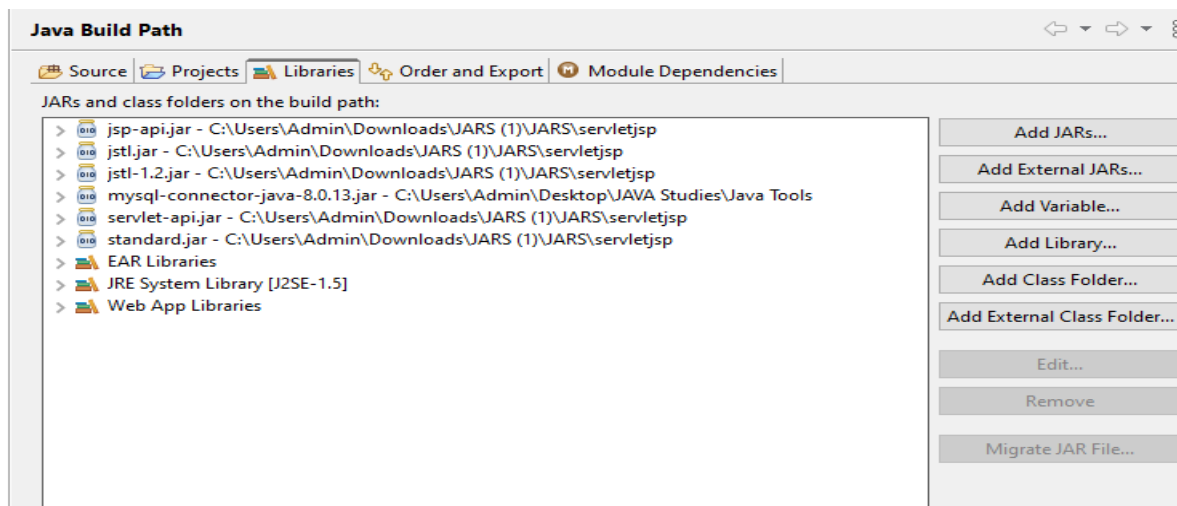
```java
try {

    String source=request.getParameter("source");
    String destination=request.getParameter("destination");
    String date=request.getParameter("date");
    int travellers=Integer.parseInt(request.getParameter("travellers"));
    //String time= request.getParameter("time");




    Class.forName("com.mysql.jdbc.Driver");
    Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/dummy?autoReconnect=true&useSSL=false","root","root");
    Statement stmt=con.createStatement();
    ResultSet rs=stmt.executeQuery("select * from MasterFlight where Source='"+source+"'and Destination='"+destination+"'and date=
    //ResultSet rs1=stmt.executeQuery("select * from MasterFlight where Date='"+date+"';");
    //ResultSet rs2=stmt.executeQuery("select * from MasterFlight where flight_time='"+time+"';");
    PrintWriter out=response.getWriter();
    ResultSetMetaData rsmd = rs.getMetaData();

    out.print("<h1>Available Flights </h1>\r\n"
            + "<h3>An Airline Reservation Application</h3>");
    response.setContentType("Flightpic2.jpg");
    out.println("<html>");
    out.println("<head>");
    out.println("<style type=\"text/css\">\r\n"
            + "body {\r\n"
            + "    background-image: url(\"Flightpic2.jpg\");\r\n"
            + "    background-repeat: no-repeat;\r\n"
            + "    background-size: cover;\r\n"
            + "    background-attachment: fixed;\r\n"
```

Step 4: Connect the JSP & SERVLET & JDBC using their requirements.

Java Build Path

Source | Projects | Libraries | Order and Export | Module Dependencies

JARs and class folders on the build path:

- jsp-api.jar - C:\Users\Admin\Downloads\JARS (1)\JARS\servletjsp
- jstl.jar - C:\Users\Admin\Downloads\JARS (1)\JARS\servletjsp
- jstl-1.2.jar - C:\Users\Admin\Downloads\JARS (1)\JARS\servletjsp
- mysql-connector-java-8.0.13.jar - C:\Users\Admin\Desktop\JAVA Studies\Java Tools
- servlet-api.jar - C:\Users\Admin\Downloads\JARS (1)\JARS\servletjsp
- standard.jar - C:\Users\Admin\Downloads\JARS (1)\JARS\servletjsp
- EAR Libraries
- JRE System Library [J2SE-1.5]
- Web App Libraries

Add JARs...
Add External JARs...
Add Variable...
Add Library...
Add Class Folder...
Add External Class Folder...
Edit...
Remove
Migrate JAR File...

Step 5: Create Databases for Admin, MasterFlight, Bookings & Other specifies.

```
mysql> desc customers;
+------------+-------------+------+-----+---------+----------------+
| Field      | Type        | Null | Key | Default | Extra          |
+------------+-------------+------+-----+---------+----------------+
| CustomerID | int         | NO   | PRI | NULL    | auto_increment |
| Name       | varchar(30) | YES  |     | NULL    |                |
| Password   | varchar(30) | YES  |     | NULL    |                |
| MobileNo   | int         | YES  |     | NULL    |                |
| EmailId    | varchar(30) | YES  |     | NULL    |                |
+------------+-------------+------+-----+---------+----------------+
5 rows in set (0.01 sec)

mysql>
```

```
mysql> desc masterflight;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| Source      | varchar(10) | YES  |     | NULL    |       |
| Destination | varchar(10) | YES  |     | NULL    |       |
| Date        | date        | YES  |     | NULL    |       |
| flight_time | varchar(10) | YES  |     | NULL    |       |
| Flight      | varchar(10) | YES  |     | NULL    |       |
| Price       | int         | YES  |     | NULL    |       |
| Flight_No   | varchar(10) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql>
```

```
mysql> desc pnr;
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
+--------------+-------------+------+-----+---------+----------------+
| customerID   | int         | YES  |     | NULL    |                |
| customerName | varchar(10) | YES  |     | NULL    |                |
| MoblieNo     | int         | YES  |     | NULL    |                |
| EmailID      | varchar(10) | YES  |     | NULL    |                |
| Flight       | varchar(10) | YES  |     | NULL    |                |
| Source       | varchar(10) | YES  |     | NULL    |                |
| Destination  | varchar(10) | YES  |     | NULL    |                |
| Travel_date  | varchar(20) | YES  |     | NULL    |                |
| flight_time  | varchar(10) | YES  |     | NULL    |                |
| PNR_NO       | int         | NO   | PRI | NULL    | auto_increment |
| Flight_No    | varchar(10) | YES  |     | NULL    |                |
| Travellers   | int         | YES  |     | NULL    |                |
| Price        | int         | YES  |     | NULL    |                |
+--------------+-------------+------+-----+---------+----------------+
13 rows in set (0.00 sec)

mysql>
```

This Project was completed as per the Steps:

A search form in the homepage to allow entry of travel details, like the date of travel, source, destination, and the number of persons.
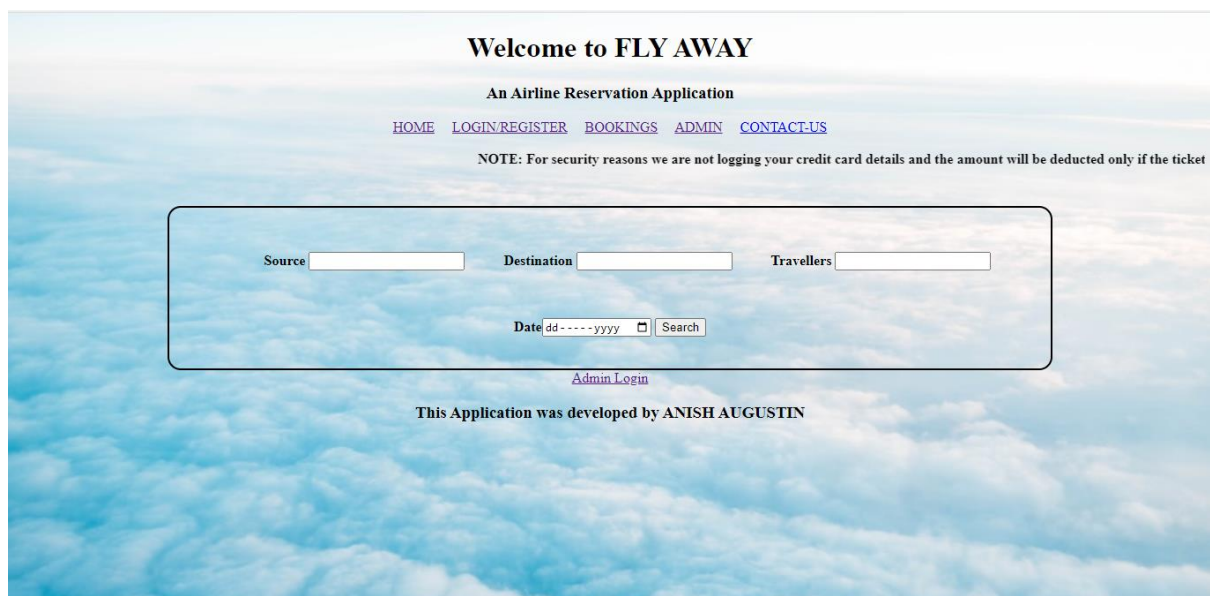
Home Page

Based on the travel details entered, it will show the available flights with their ticket prices.

Flights based on your search

Once a person selects a flight to book, they will be taken to a register page where they must fill in their personal details.

Login/Register page

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.

Dummy Payment page

On completion of the payment, they are shown a confirmation page with the details of the booking.

Congrats page

FLY AWAY

An Airline Reservation Application

HOME   LOGIN   REGISTER   ADMIN   CONTACT-US

PASSENGER NAME RECORD

Thanks for Booking in FLY AWAY

PNR NUMBER	212
FROM	USA
TO	IND
DATE	2023-01-01
TIME	20:00:00
FLIGHT NO	AA099
FLIGHT	AIR_ASIA
TRAVELLERS	2
CUSTOMER ID	1
NAME	Anish
PHONE NO	999888777
EMAIL ID	anish@123
PRICE	2400

PNR page

An admin login page where the admin can change the password after login, if he wishes

FLY AWAY

An Airline Reservation Application

HOME   LOGIN   REGISTER   ADMIN   CONTACT-US

Admin Id [   ]

Password [   ]

Use Admin Id : 1

Use Password : 123123
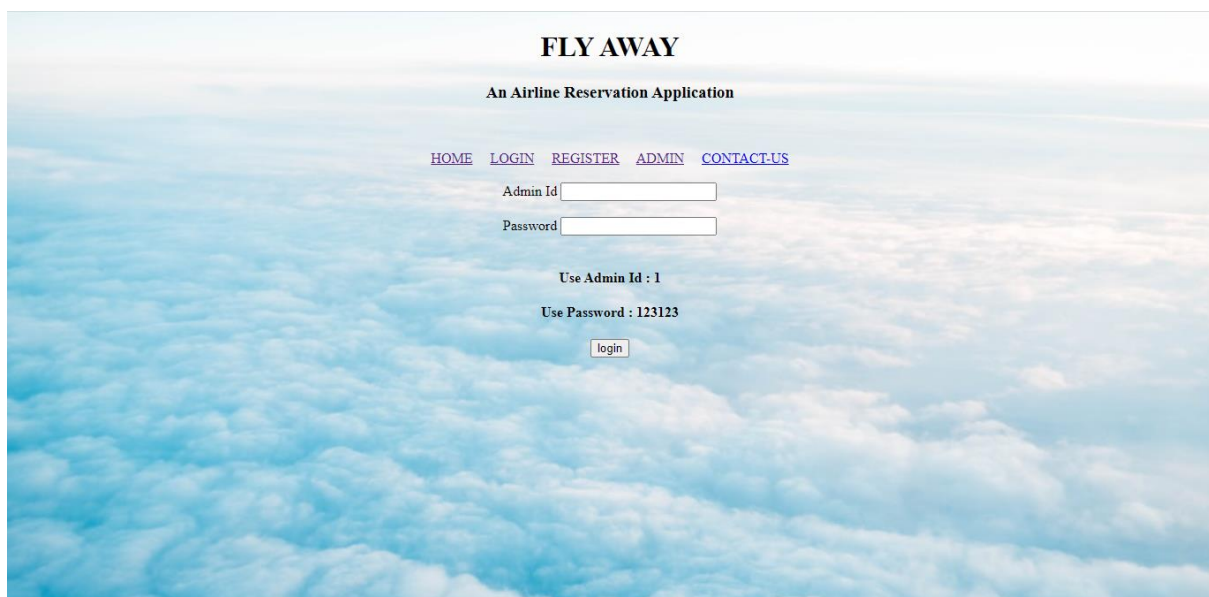
[login]

Admin login page
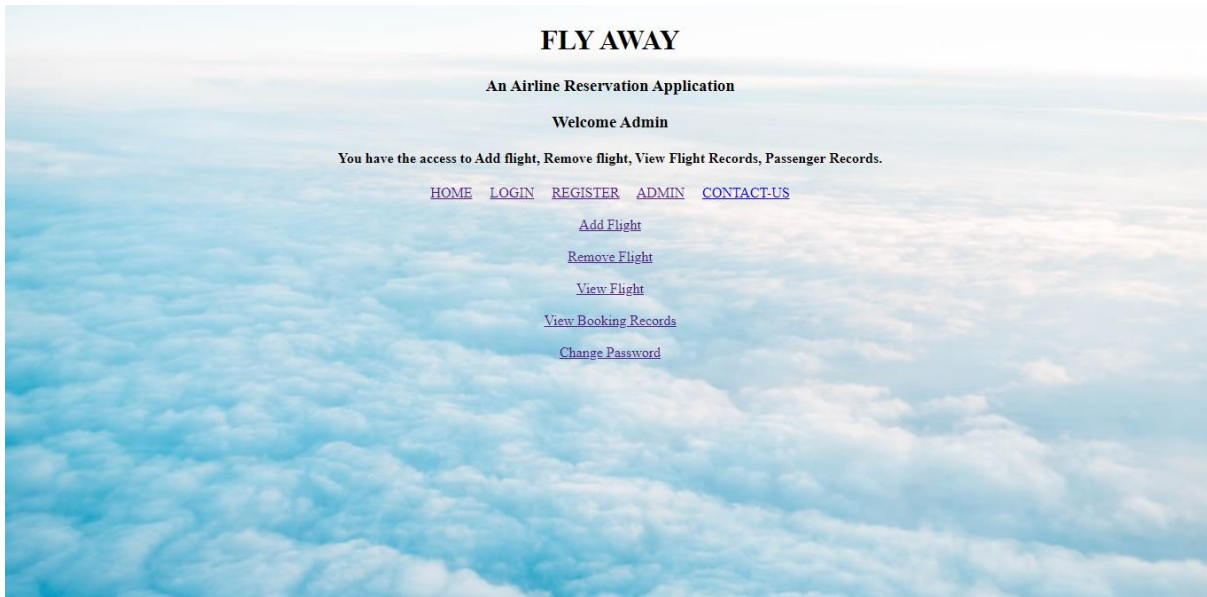
Admin control page
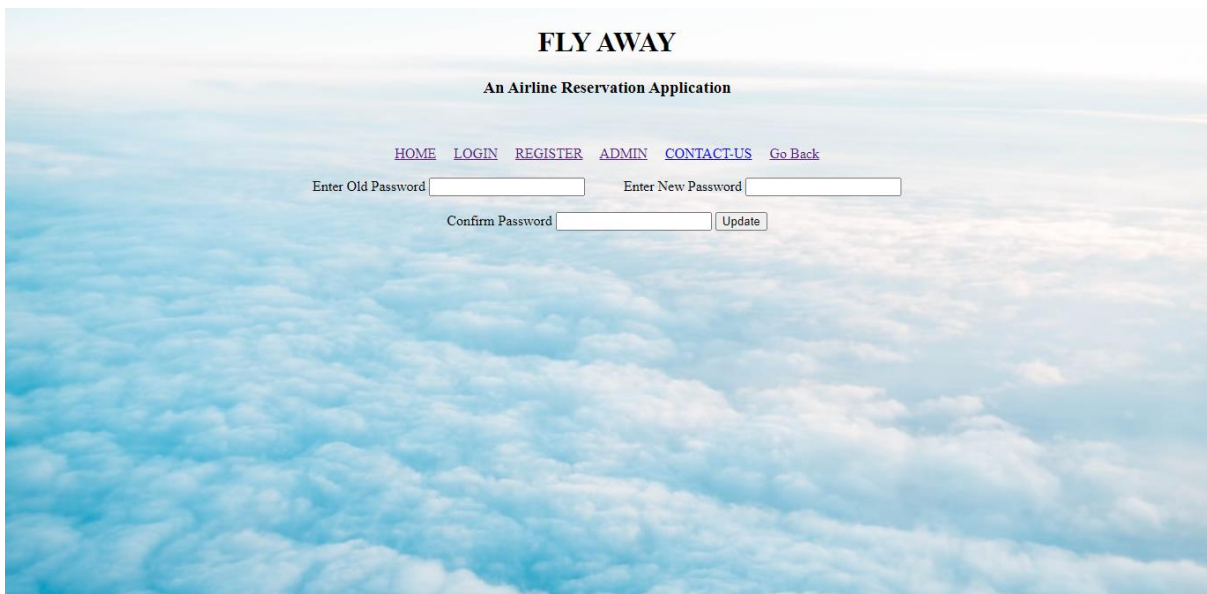
Password Change

A master list of places for source and destination

Flight Detail's list

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
USA	IND	2023-01-01	08:00:00	TATA_AIR	1200	TT1

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
UK	USA	2023-01-01	12:00:00	AIR_ASIA	1500	AA098

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
IND	UK	2023-01-01	18:00:00	DECCAN	1700	DC233

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
USA	IND	2023-01-01	20:00:00	AIR_ASIA	1200	AA099

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
USA	UK	2023-01-02	08:00:00	TATA_AIR	1000	TT02

<

Source	Destination	Date	flight_time	Flight	Price	Flight_No
IND	UK	2023-01-02	20:00:00	AIR_ASIS	1200	AA02

Source & Destination

A list of flights where each flight has a source, destination, airline, and ticket price

Passenger Booking List

customerID	customerName	MoblieNo	EmailID	Flight	Source	Destination	Travel_date	flight_time	PNR_NO	Flight_No	Travellers	Price
2	Steve	123456	steve@123	Air_Asia	USA	UK	2023-01-01	12:00:00	1	null	0	0

customerID	customerName	MoblieNo	EmailID	Flight	Source	Destination	Travel_date	flight_time	PNR_NO	Flight_No	Travellers	Price
7	Ben	998800998	ben@123	AIR_ASIA	USA	IND	2023-01-01	20:00:00	208	AA099	3	3600

customerID	customerName	MoblieNo	EmailID	Flight	Source	Destination	Travel_date	flight_time	PNR_NO	Flight_No	Travellers	Price
1	Anish	999888777	anish@123	AIR_ASIA	USA	IND	2023-01-01	20:00:00	212	AA099	2	2400

THANK YOU