

FlyAway (An Airline Booking Portal)

Introduction:

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

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.

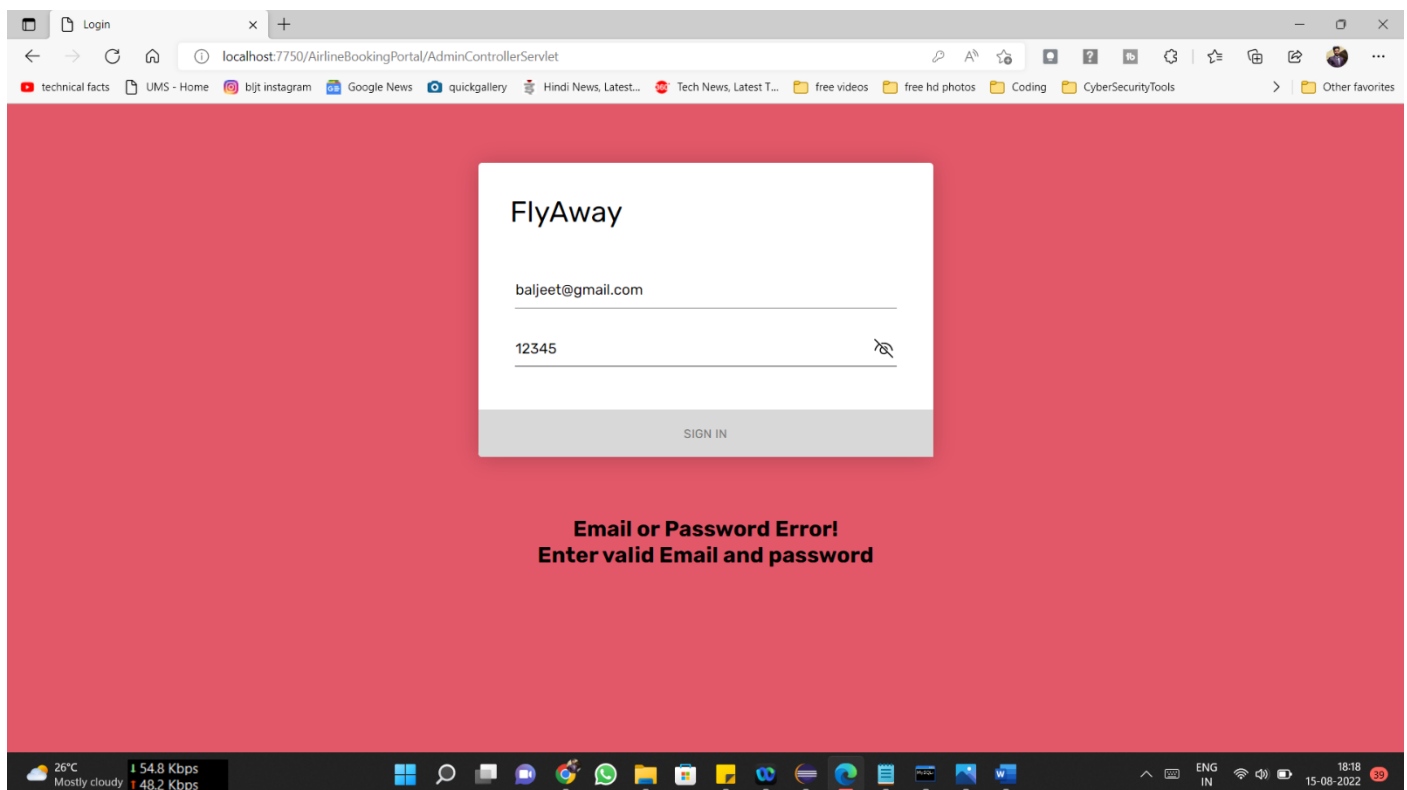
Installation Guide:

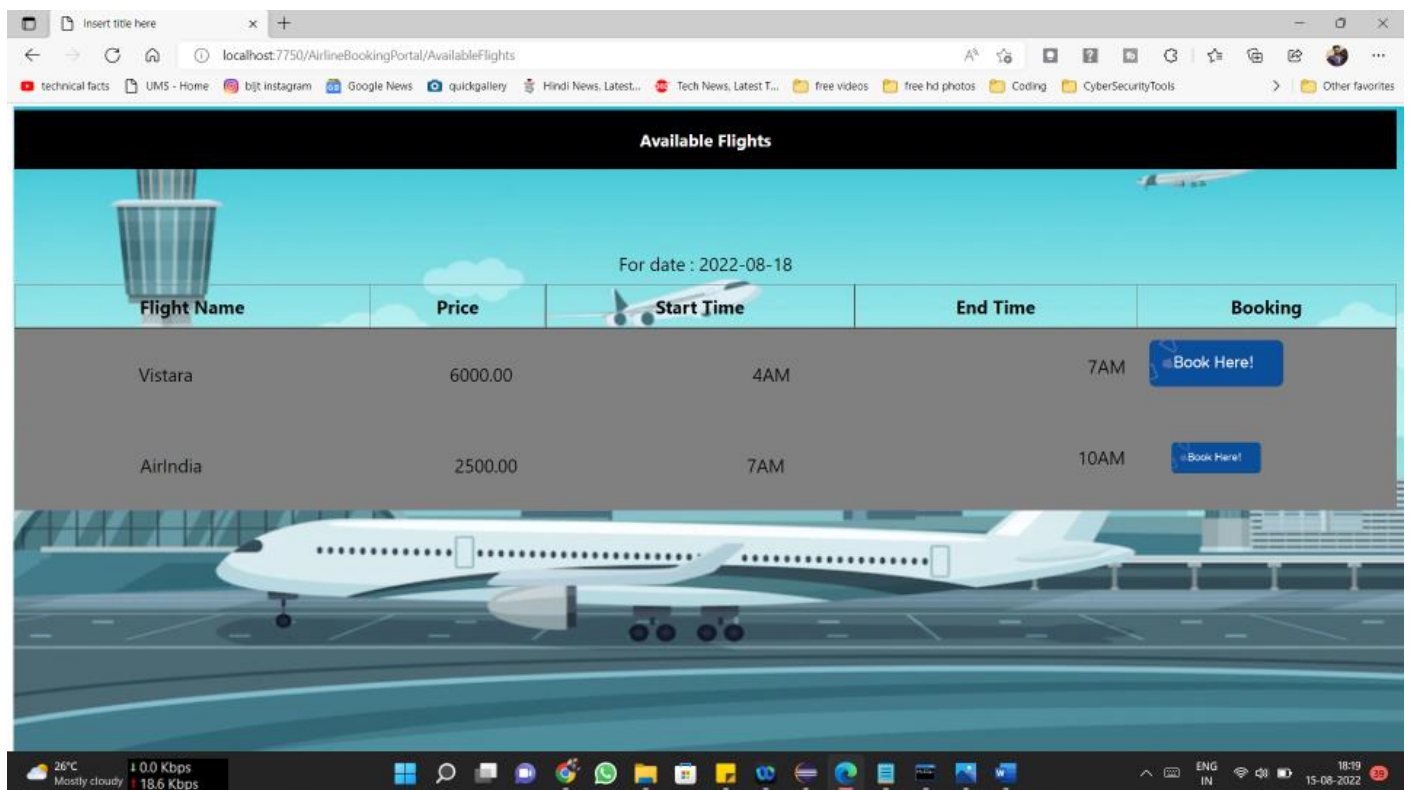
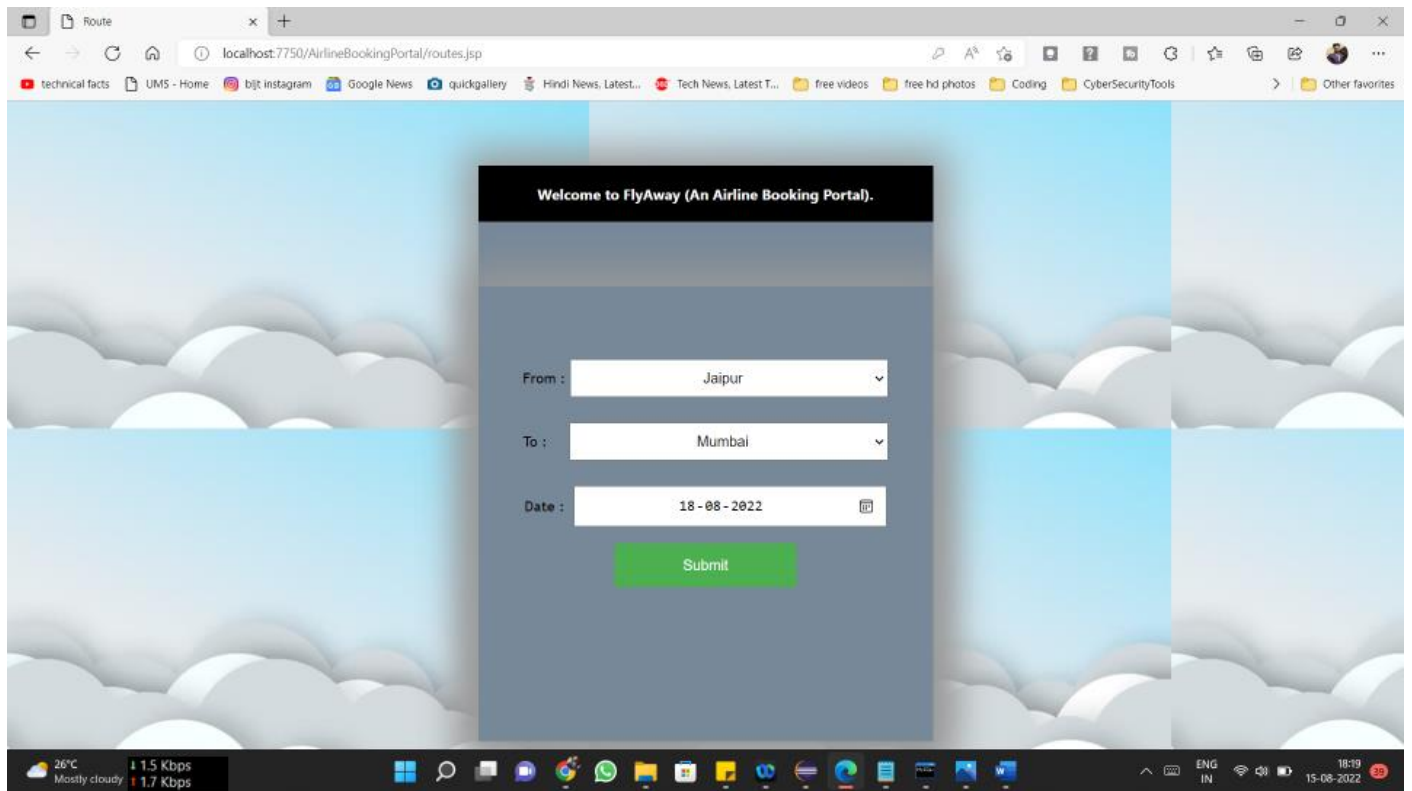
1. GitHub link: <https://github.com/baljeet-singh97/JAVA-Projects/tree/main/Phase%202/AirlineBookingPortal>
2. Download the entire project as Zip in local system.
3. import the project in Eclipse IDE

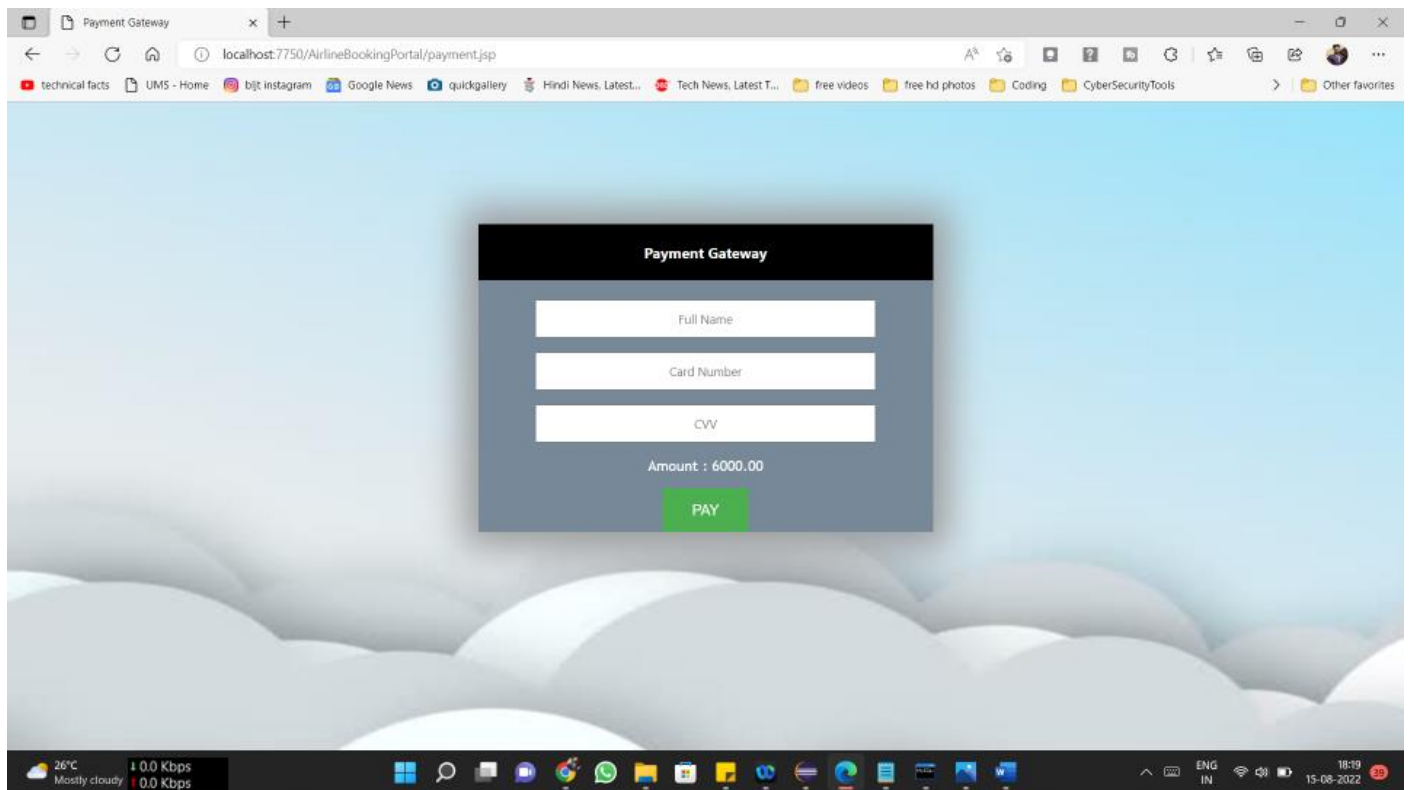
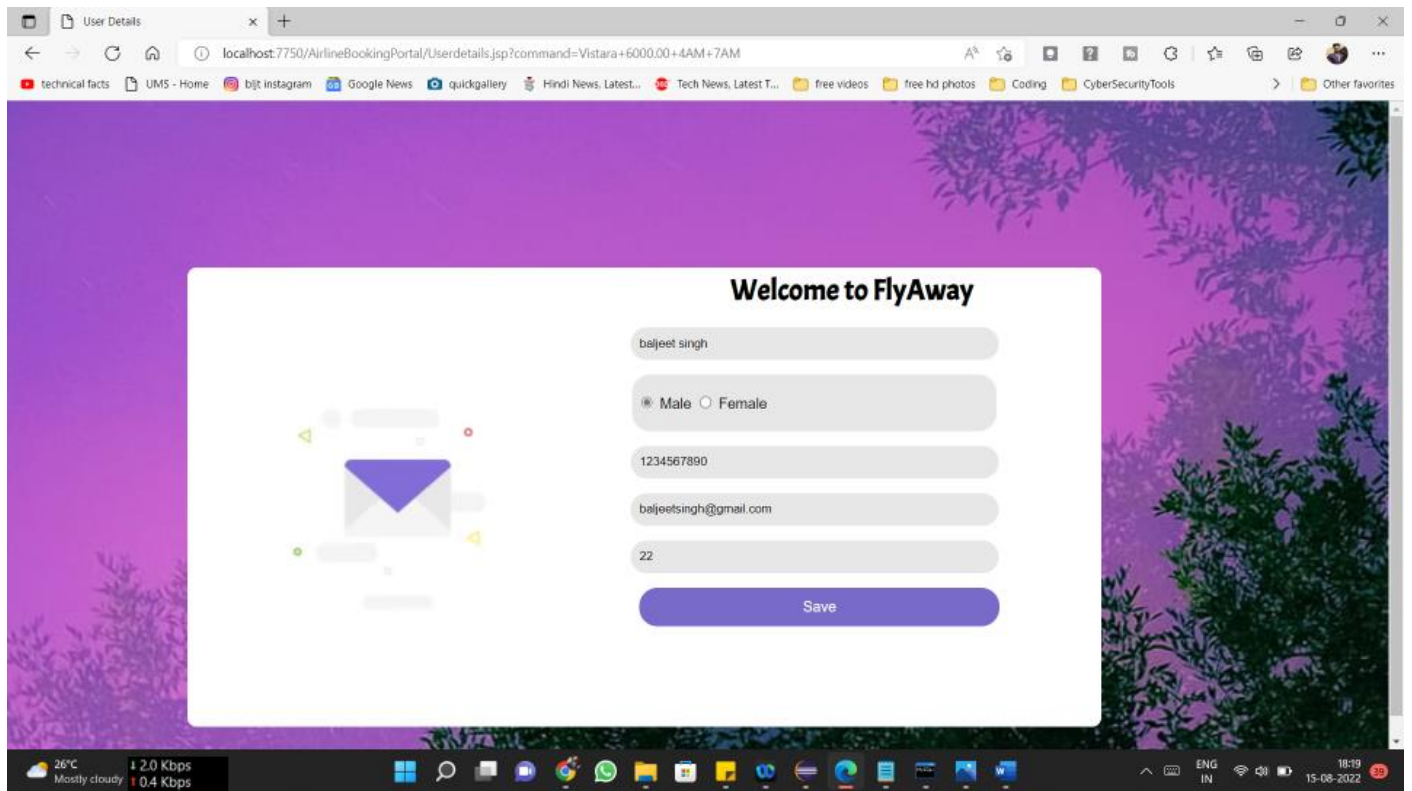
How to use:

Email: baljeet@gmail.com

Password: 12345








Insert title here

localhost:7750/AirlineBookingPortal/paymentsuccessfull.jsp

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PAYMENT SUCCESSFULL !




Thanks for booking with us.

Download Ticket

Download

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E-Ticket

localhost:7750/AirlineBookingPortal/ticket.jsp

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Flyaway


E-Ticket

Name: baljeet singh
Gender: male
Mobile No: 1234567890
Email: baljeetsingh@gmail.com
Age: 22

Flight : Vistara
Start time : 4AM
Reach Time : 7AM
From : Jaipur
To : Mumbai
Date Of Travelling : 2022-08-18
Amount Paid : 6000.00

New Booking

26°C Mostly cloudy0.0 Kbps0.0 Kbps



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```
MySQL 8.0 Command Line Client
Tables_in_flyaway
+-----+
| aone  |
| athree|
| atwo  |
| routes|
+-----+
4 rows in set (0.00 sec)

mysql> select *from routes
-> ;
+----+-----+-----+-----+
| ID | From_source | To_destination | airline_group |
+----+-----+-----+-----+
| 1  | delhi       | mumbai        | Aone          |
| 2  | delhi       | jaipur        | Atwo          |
| 3  | delhi       | pune          | Athree        |
| 4  | mumbai      | delhi         | Aone          |
| 5  | mumbai      | jaipur        | Atwo          |
| 6  | mumbai      | pune          | Athree        |
| 7  | jaipur      | delhi         | Aone          |
| 8  | jaipur      | mumbai        | Atwo          |
| 9  | jaipur      | pune          | Athree        |
| 10 | pune        | delhi         | Aone          |
| 11 | pune        | mumbai        | Atwo          |
| 12 | pune        | jaipur        | Athree        |
+----+-----+-----+-----+
12 rows in set (0.00 sec)

mysql> select *from aone;
+----+-----+-----+-----+-----+
| id | Airline_name | Price | Start_time | End_time |
+----+-----+-----+-----+-----+
| 1  | SpiceJet     | 5000.00 | 6AM       | 9AM       |
| 2  | Vistara      | 6000.00 | 10AM      | 12AM      |
| 3  | dummy        | 500.00  | 5am       | 10am      |
+----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select *from atwo;
+-----+-----+-----+-----+
| Airline_name | Price | Start_time | End_time |
+-----+-----+-----+-----+
| Vistara      | 6000.00 | 4AM       | 7AM       |
| AirIndia     | 2500.00 | 7AM       | 10AM      |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

Code Description:

LoginServlet.java

Fetching the email and password from the login page

```
String email=req.getParameter("email");
String password=req.getParameter("password");
```

Checking if email and password are correct or not if correct saving the email and password in session for future reference and redirecting the user to routes.jsp page to select the route of flight.

```
if(email.equalsIgnoreCase("baljeet@gmail.com") && password.equalsIgnoreCase("12345"))
HttpSession session=req.getSession();
```

setAttribute method is used to store an object in session by allotting a unique string to the object. Later, By using the same string this object can be accessed from the session until the session is active.

```
session.setAttribute("email", email);
session.setAttribute("pass", password);
resp.sendRedirect("routes.jsp");
```

If users id password are wrong it will redirect the user back to login page with error message.

```
RequestDispatcher rd = req.getRequestDispatcher("login.jsp");  
rd.include(req, resp);
```

GetAirlineGroup.java

Redirecting here from routes.jsp Getting the user selected values from the routes.jsp, from , to and date selected by user. And storing the values in a session attribute for future reference also.

```
String source= req.getParameter("from");  
String destination= req.getParameter("to");  
String date = req.getParameter("datee");
```

Connecting to the database accessing properties and drivers from DBConfig.java file.

```
Properties props= new Properties();  
InputStream in= getServletContext().getResourceAsStream("/WEB-INF/application.properties");  
Connection conn=DBConfig.getConnection(props);
```

If connection is successful searching the arline_group with source and destination belongs in database.

```
PreparedStatement stmt= conn.prepareStatement("SELECT airline_group FROM routes WHERE  
From_source=? and To_destination=?" );
```

After getting the airline_group redirecting the the AvailFlights servlet with date and airline code

```
req.setAttribute("date", date);  
req.setAttribute("aircode", Airline_code);  
RequestDispatcher reqd = req.getRequestDispatcher("AvailFlights");  
reqd.forward(req, resp);
```

AvailFlights.java

Connecting to database accessing properties and drivers from DBConfig.java file.

```
Properties props= new Properties();  
InputStream in= getServletContext().getResourceAsStream("/WEB-INF/application.properties");  
props.load(in);  
Connection conn=DBConfig.getConnection(props);
```

Getting the airline_group and date in the string variable

```
String Airline = (String) req.getAttribute("aircode");  
String date = (String) req.getAttribute("date");
```

If connection is successful running a query with airline group named table and storing all the data of particular airline group in the arraylist of strings

```
PreparedStatement stmt= conn.prepareStatement("SELECT * FROM "+Airline+"");
```

Storing the date and final flight data in session for future reference And redirecting to the FlightList.jsp

```
session.setAttribute("date", date);  
session.setAttribute("flights", flights);  
req.getRequestDispatcher("FlightList.jsp").forward(req, resp);
```

FlightList.jsp

In here getting the the flights data in flight list and printing out on the page by iterating the List.

```
<%  
    @SuppressWarnings("unchecked")  
    List<String[]> flights=(List<String[]>)session.getAttribute("flights");  
%>
```

Sending the data Userdetails.jsp of particular flight selected by the user with submit request.

```
<INPUT id="submit" TYPE="submit" name="command" value="<%=flight[0]%> <%=flight[1]%>  
<%=flight[2]%> <%=flight[3]%>"/>
```

Userdetails.jsp

Getting all the user details from the user and redirecting the the page
UserdetailsController.java.

UserdetailsController.java

Created a Userdetails Method to store all the user data and in here created an object for that method and storing the values by getting from the userdetails.jsp page to the userdetails method and storing the object in session for future reference and redirecting to the payment.jsp for payment.

```
Userdetails u1 = new Userdetails(request.getParameter("pname"),  
request.getParameter("pgender"),  
request.getParameter("pnumber"),request.getParameter("pemail"),request.getParameter("page"));  
session.setAttribute("userdetails", u1);  
response.sendRedirect("payment.jsp");
```

ticket.jsp

After successful payment user will redirected to the ticket.jsp page here, An E-ticket generated with all the user details of flight booked and payment details will be provided here. In here we are printing out the values of user that we stored previously in the userdetails object.

```
%>  
  
    <h3 id="main">  
  
    Name: <c:out value="${userdetails.pname }"></c:out>  
  
    <br>  
  
    Gender: <c:out value="${userdetails.pgender }"></c:out>  
  
    <br>  
  
    Mobile No: <c:out value="${userdetails.pnumber }"></c:out>  
  
    <br>  
  
    Email: <c:out value="${userdetails.pemail }"></c:out>  
  
    <br>  
  
    Age: <c:out value="${userdetails.page }"></c:out>  
  
%>
```

Getting the flight details from the list attribute by iterating the list with particular values.

```
Flight : <c:out value="<%=flight.get(0)%>"></c:out>  
  
<br>
```


Start time : <c:out value="<%=flight.get(2)%>"></c:out>

Reach Time : <c:out value="<%=flight.get(3)%>"></c:out>

