Code :

Index.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Welcome</title>
</head>
<body>
<div>
<h2>Welcome to FlyAway!!!</h2>
<p>Airline Reservation System</p>
</div>
<div>
<h3> User Login :</h3>
<a href="userlogin.jsp">User Login</a>
</div>
<h3>Admin Login :</h3>
<a href="adminlogin.jsp">Admin Login</a>
</body>
```

```
</html>
```

Adminlogin.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Welcome Admin!</title>
</head>
<body>
<div>
<h2>Welcome to FlyAway</h2>
</div>
<h3>Admin Login</h3>
<form action="AdminLogin" method="post">
Email:<input type="email" name="email">
Password:<input type="password" name="password">
<input type="submit" value="Submit">
</form>
<br>
<a href="index.jsp">Home</a>
</div>
</body>
```

```
</html>
```

AdminLogin.java

```java
package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import  javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/AdminLogin")

public class AdminLogin extends HttpServlet {

Connection connection=null;

public void init(ServletConfig config) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

ServletContext context=config.getServletContext();
```

```java
String dburl=context.getInitParameter("dburl");

String dbuser=context.getInitParameter("dbuser");

String dbpassword=context.getInitParameter("dbpassword");

connection=DriverManager.getConnection(dburl,dbuser,dbpassword
);

} catch (ClassNotFoundException | SQLException e1) {

e1.printStackTrace();

}

}

protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

String email=request.getParameter("email");

String password=request.getParameter("password");

try (Statement st=connection.createStatement();

ResultSet rs=st.executeQuery("select * from admin where
email='"+email+"' and password='"+password+"'");

PrintWriter out =response.getWriter();

){

if(rs.next()) {

out.println("Welcome to User page"+email);

response.sendRedirect("AdminMenu.jsp");

}else {

out.println("Wrong credentials");

}

}catch(Exception e) {

e.printStackTrace();
```

```
        }

    }

}
```

AdminMenu.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title></title>
</head>
<body>
<h3>Admin Operations</h3>
<ul>
<li><a href="ChangePassword.jsp">Change Password?</a></li>
<li><a href="ListFlights">List All Avalilable Flights</a></li>
<br><br>
<a href="adminlogin.jsp">Back</a>
</ul>
</body>
</html>
```

ChangePassword.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title></title>
</head>
<body>
<h3>Do you want to change your password?</h3>
<form action="ChangePassword" method="post">
Email:<input type="email" name="email">
Password:<input type="password" name="password">
<input type="submit" value="Submit">
</form>
</body>
</html>
```

ChangePassword.java:

```
package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;
```

```java
import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import  javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/ChangePassword")

public class ChangePassword extends HttpServlet {

private static final long serialVersionUID = 1L;

Connection connection=null;

public void init(ServletConfig config) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

ServletContext context=config.getServletContext();

String dburl=context.getInitParameter("dburl");

String dbuser=context.getInitParameter("dbuser");

String dbpassword=context.getInitParameter("dbpassword");

connection=DriverManager.getConnection(dburl,dbuser,dbpassword);
```

```java
		} catch (ClassNotFoundException | SQLException e1) {

			e1.printStackTrace();

		}

	}

	protected void doPost(HttpServletRequest request,
	HttpServletResponse response) throws ServletException,
	IOException {

		String email=request.getParameter("email");

		String password=request.getParameter("password");

		try (Statement st=connection.createStatement();){

			int result=st.executeUpdate("update admin set
			password='"+password+"' where email ='"+email+"'");

			PrintWriter out=response.getWriter();

			response.setContentType("text/html");

			if(result>0) {

			out.println("<h1>Password Updated</h1>");

			}else {

			out.println("<h1>Error Updating user password</h1>");

			}

			out.print("<a href=\"AdminMenu.jsp\">Back</a>");

		} catch (SQLException e) {

			e.printStackTrace();

		}

	}

}
```

ListFlights.java

```java
package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import  javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/ListFlights")

public class ListFlights extends HttpServlet {

private static final long serialVersionUID = 1L;

private Connection connection;

private Statement statement =null;

public void init(ServletConfig config) {

try {
```

```java
Class.forName("com.mysql.cj.jdbc.Driver");

ServletContext context=config.getServletContext();

String dburl = context.getInitParameter("dburl");

String dbuser = context.getInitParameter("dbuser");

String dbpassword = context.getInitParameter("dbpassword");

connection =DriverManager.getConnection(dburl,
dbuser,dbpassword);

} catch (SQLException | ClassNotFoundException e) {

e.printStackTrace();

}

}

protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

try(

Statement statement=connection.createStatement();

ResultSet result=statement.executeQuery("select * from
flight");) {

PrintWriter out=response.getWriter();

response.setContentType("text/html");

response.setContentType("text/html");

out.println("");

out.print("<table border=1>");

out.print("<tr>");

out.print("<th>Flight Id</th>");

out.print("<th>Name</th>");

out.print("<th>Source</th>");
```

```java
out.print("<th>Destination</th>");

out.print("<th>Day</th>");

out.print("<th>Ticket Price</th>");

out.print("</tr>");

while(result.next()) {

int FlightId = result.getInt(1);

String Name = result.getString(2);

String Source = result.getString(3);

String Destination = result.getString(4);

String Day = result.getString(5);

int TicketPrice = result.getInt(6);

out.print("<tr>");

out.print("<td>"+FlightId+"</th>");

out.print("<td>"+Name+"</td>");

out.print("<td>"+Source+"</td>");

out.print("<td>"+Destination+"</td>");

out.print("<td>"+Day+"</td>");

out.print("<td>"+TicketPrice+"</td>");

out.print("</tr>");

}

out.print("</table>");

out.println("<a href=\"AdminMenu.jsp\">Back</a>");

} catch (SQLException e) {

e.printStackTrace();

}
```

```
}

public void destroy() {

if(connection !=null) {

try {

connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

}
```

Userlogin.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>User</title>

</head>

<body>

<div>

<h2>Welcome to FlyAway User!!</h2>
```

```html
</div>

<h3>User Login:</h3>

<form action="UserLogin" method="post">

Email:<input type="text" name="email">

Password:<input type="password" name="password">

<input type="submit" value="Submit">

</form>

<br>

<a href="index.jsp">Home</a>

</body>

</html>
```

UserLogin.java:

```java
package com.servlets;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;
```

```java
import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/UserLogin")

public class UserLogin extends HttpServlet {

private static final long serialVersionUID = 1L;

Connection connection=null;

public void init(ServletConfig config) {

try {

Class.forName("com.mysql.cj.jdbc.Driver");

ServletContext context=config.getServletContext();

String dburl=context.getInitParameter("dburl");

String dbuser=context.getInitParameter("dbuser");

String dbpassword=context.getInitParameter("dbpassword");

connection=DriverManager.getConnection(dburl,dbuser,dbpassword
);

} catch (ClassNotFoundException | SQLException e1) {

e1.printStackTrace();

}

}

protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

String email=request.getParameter("email");

String password=request.getParameter("password");

try (Statement st=connection.createStatement();
```

```java
ResultSet rs=st.executeQuery("select * from login where
email='"+email+"' and password='"+password+"'");

PrintWriter out =response.getWriter();

){

if(rs.next()) {

out.println("Welcome to User page"+email);

response.sendRedirect("SearchFlight.jsp");

}else {

out.println("Wrong credentials");

}

}catch(Exception e) {

e.printStackTrace();

}

}

}
```

SearchFlights.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-
8"

pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title></title>

</head>
```

```html
<body>

<h2>Search Flights</h2>

<div>

<h3>Welcome User!!</h3>

</div>

<form action="SearchFlight" method="post">

<div>

<label for="date">Date</label>

<input type="date" id="date" name="date" placeholder="yyyy-mm-dd">

</div>

<br>

<div>

<label for="source">Source</label>

<select id="source" name="source">

<option value="Bengaluru">Bengaluru</option>

<option value="Hyderabad">Hyderabad</option>

<option value="Pune">Pune</option>

<option value="Chennai">Chennai</option>

<option value="Mumbai">Mumbai</option>

<option value="Thiruvananthapuram">Thiruvananthapuram</option>

<option value="Delhi">Delhi</option>

<option value="Noida">Noida</option>

</select>

</div>
```

```html
<br>

<div>

<label for="destination">Destination</label>

<select id="destination" name="destination">

<option value="Noida">Noida</option>

<option value="Bengaluru">Bengaluru</option>

<option value="Mumbai">Mumbai</option>

<option value="Pune">Pune</option>

<option value="Chennai">Chennai</option>

<option value="Thiruvananthapuram">Thiruvananthapuram</option>

<option value="Hyderabad">Hyderabad</option>

<option value="Delhi">Delhi</option>

</select>

</div>

<br>

<div>

<label for="person">No of people</label>

<select id="person" name="person">

<option value="1">1</option>

<option value="2">2</option>

<option value="3">3</option>

<option value="4">4</option>

<option value="5">5</option>

<option value="6">6</option>

</select>
```

```html
</div>

<br>

<input type="submit" value="Submit">

</form>

</body>

</html>
```

SearchFlight.java:

Search.java:

```java
package com.demo;

public abstract class Search {

public static String date;

public static String day;

public static String source;

public static String destination;

public static int person;

public static String getQuery() {

return "SELECT * FROM flight WHERE Source = '"+source+"' AND
Destination='"+destination+"'AND Day='"+day+"'";

}

}
```

SearchFlight.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-
8859-1"
```

```jsp
pageEncoding="ISO-8859-1"%>

<%@ page import="java.sql.*"%>

<%@ page import="com.demo.Search" %>

<%

String driverName = "com.mysql.cj.jdbc.Driver";

String dburl = "jdbc:mysql://localhost/my_db";

String userId = "root";

String password = "Myroot@1";

String query = Search.getQuery();

try {

Class.forName(driverName);

} catch (ClassNotFoundException e) {

e.printStackTrace();

}

Connection connection = null;

Statement statement = null;

ResultSet resultSet = null;

%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">

<title>Welcome to Flyaway Flights</title>

</head>
```

```html
<body>

<div>

<h2 align="center"><span><strong>Flights </strong></span></h2>

<p align="center"><span><strong>

You Searched flights from <%=Search.source%> to
<%=Search.destination%> <br>

Date of travel : <%=Search.date%> (<%=Search.day%>) <br>

No of travelers : <%=Search.person%> <br>

</p>

<table border='1' align="center">

<thead>

<tr>

<th scope="col">Flight</th>

<th scope="col">Source</th>

<th scope="col">Destination</th>

<th scope="col">Date</th>

<th scope="col">Ticket Price(Rs)</th>

<th scope="col">Select</th>

</tr>

</thead>

<tbody>

<br><p align="center"><span><strong>Select a
flight</strong></span></p><br>

<%

try{
```

```jsp
connection = DriverManager.getConnection(dburl, userId,
password);

statement=connection.createStatement();

resultSet = statement.executeQuery(query);

while(resultSet.next()){

%>

<tr>

<td><%=resultSet.getString("Name") %></td>

<td><%=resultSet.getString("Source") %></td>

<td><%=resultSet.getString("Destination") %></td>

<td><%=Search.date%></td>

<td><%=resultSet.getString("TicketPrice") %></td>

<td>

<form
action="${pageContext.request.contextPath}/BookFlight.jsp"
method="post">

<input type="hidden" id="name" name="name"
value="<%=resultSet.getString("Name")%>">

<input type="hidden" id="ticket_price" name="ticket_price"
value="<%=resultSet.getString("TicketPrice")%>">

<input type="hidden" id="flight_id" name="flight_id"
value="<%=resultSet.getString("FlightId")%>">

<input type="submit" class="btn btn-success" value="Book This
Flight">

</form>

</td>

</tr>

<%
```

```
        }

        } catch (Exception e) {

        e.printStackTrace();

        }

        %>

        </tbody>

        </table>

        <div align="center">

        <a href ="SearchFlight.jsp">Back</a>

        </div>

        </div>

        </body>

        </html>
```

BookFlight.jsp:

```
<%@ page language="java" contentType="text/html; charset=ISO-
8859-1"

pageEncoding="ISO-8859-1"%>

<%@ page import="com.demo.Booking" %>

<%

Booking.flight_booking_id = request.getParameter("flight_id");

Booking.ticket_price =
Integer.parseInt(request.getParameter("ticket_price"));

Booking.flight_name = request.getParameter("name");

%>
```

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">

<title>Booking Details</title>

</head>

<body>

<section >

<section >

<div class="row">

<div class="col">

<h1 align="center" ><b>Booking Details</b></h1>

<p align="center"><span><strong>Enter Passenger
Details</strong></span></p><br>

</div>

</div>

<section >

<form action="${pageContext.request.contextPath}/Payment.jsp"
method="post" class="form-container">

<div >

<label for="pname">Passenger Name</label>

<input type="text" name="pname" placeholder="Name of
Passenger">

</div>

<div >
```

```html
<label for="email">Email address</label>

<input type="email" name="email" aria-describedby="emailHelp"
placeholder="Enter email">

</div>

<div >

<label for="phone">Phone</label>

<input type="number" name="phone" placeholder="Enter phone
number">

</div>

<br>

<button type="submit" value="Submit">Submit</button>

</form>

</section>

</section>

</section>

</body>

</html>
```

Booking.java:

```java
package com.demo;

public class Booking {

// flight details

public static String flight_booking_id;

public static int ticket_price;

public static String flight_name;

// passenger details
```

```java
public static String passenger_name;

public static String passenger_email;

public static String passenger_phone;

// payment details

public static String name_on_card;

public static String card_details;

}
```

Payment.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-
8859-1"

pageEncoding="ISO-8859-1"%>

<%@ page import="com.demo.Booking" %>

<%@ page import="com.demo.Search" %>

<%

Booking.passenger_name = request.getParameter("pname");

Booking.passenger_email= request.getParameter("email");

Booking.passenger_phone= request.getParameter("phone");

if (Booking.passenger_name.equals("")

|| Booking.passenger_email.equals("")

|| Booking.passenger_phone.equals("")) {

out.println("Please enter valid passenger details");

}

else {

%>
```

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">

<title>Payment Details</title>

</head>

<body>

<section >

<section >

<div class="row">

<div class="col">

<h1 align="center" ><b>Checkout</b></h1>

<p align="center" ><span><strong>Enter Payment
Details</strong></span></p><br>

</div>

</div>

<section>

<form action="${pageContext.request.contextPath}/ThankYou.jsp"
method="post" class="form-container">

<div >

<label for="card_details">UPI Id</label>

<input type="text" name="name_on_card" placeholder="Enter UPI
Id">

</div>

<div >
```

```html
<label for="card_details">Mobile Number</label>

<input type="number" name="card_details" placeholder="Enter
Mobile Number">

</div>

<br>

<p align="left"><span><strong>Total Amount<br>
<%=Booking.ticket_price%> X <%=Search.person%> persons =
Rs.<%=Booking.ticket_price*Search.person%></strong></span></p>

<button type="submit" value="Submit">Pay Through UPI</button>

</form>

</section>

</section>

</section>

</body>

</html>

<%

}
```

ThankYou.jsp:

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-
8859-1"

pageEncoding="ISO-8859-1"%>

<%@ page import="com.demo.Search" %>

<%@ page import="com.demo.Booking" %>

<%

Booking.name_on_card = request.getParameter("name_on_card");
```
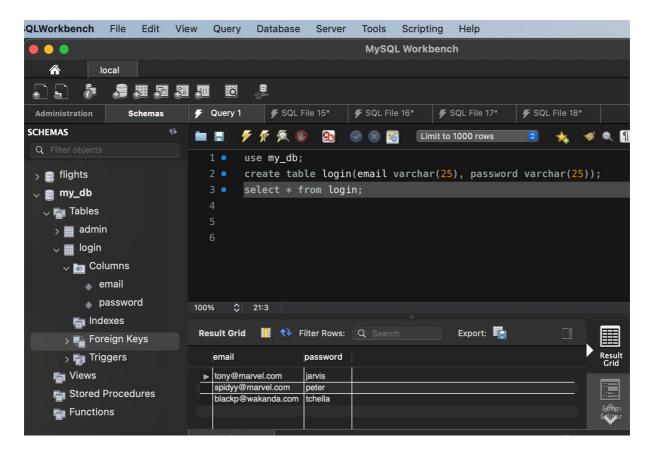
```
Booking.card_details = request.getParameter("card_details");

if (Booking.name_on_card.equals("") ||
Booking.card_details.equals("")) {

out.println("Please enter valid card details");

}

%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html;
charset=ISO-8859-1">

<title>Thank You</title>

</head>

<body>

<div>

<h2 align="center"><span><strong>Thank
You</strong></span></h2>

<p align="center"><span><strong>Flight has
booked</strong></span></p>

<br>

<h3>Ticket Details</h3>

<h4><strong><%=Search.source%> to <%=Search.destination%> |
<%=Search.date%> (<%=Search.day%>)</strong></h4>

<p align="left"><%=Booking.flight_booking_id%> -
<%=Booking.flight_name%> (Travellers
<%=Search.person%>)</p><br>

<br>

<h3><strong>Passenger Summary</strong></h3>
```

```html
<h4>Booking Name-<%=Booking.passenger_name%> </h4>

<h4>Email- <%=Booking.passenger_email%></h4>

<h4>Phone- <%=Booking.passenger_phone%></h4>

<br>

<h3><strong>Payment Summary</strong></h3>

<h4>Payment By-<%=Booking.name_on_card%></h4><br>

<h2 align="right"><strong>Total Paid-
Rs.<%=Search.person*Booking.ticket_price%></strong></h2><br><br>

<div align="center">

<a href ="index.jsp">Home</a>

</div>

<p><button onclick="window.print()" >Print Ticket</button></p>

</div>

</body>

</html>
```
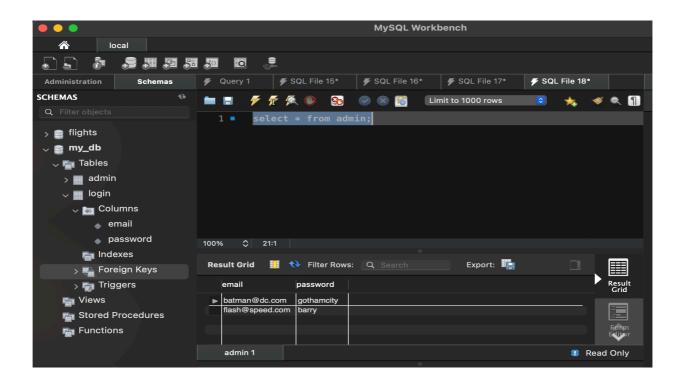
Database:

Login table

Admin table:

Flight table: