**PROJECT DETAILS:**

EMPLOYEE ID : 2527463

EMPLOYEE NAME : Vishnu R

PROJECT DETAILS: JAVA FSD Phase 2 assessment module.

To develop a prototype application module for

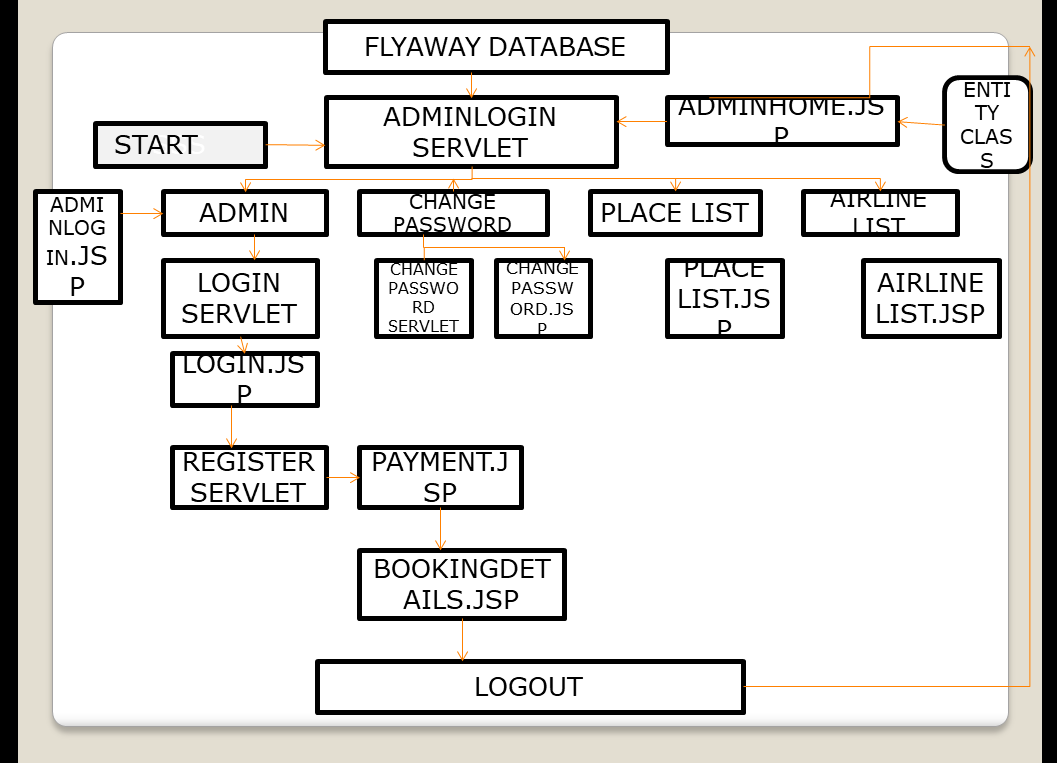
LOCKEDME.com Company.

**SPRINTS AND TASKS:**

The task is planned to be completed in a single sprint. The tasks to be completed are

* Creating flow of application.
* Initializing git repository to track changes as the application progress.
* Writing and compiling java program to fulfill the required condition.
* Testing and Dry run the application developed to meet the user requirement.
* Push the Code into github.
* Specifying application details.

**ALGORITHM AND FLOWCHART:**



THE ABOVE FLOWCHART DIAGRAM EXPLAINS THE WORKING FLOW OF THE PROGRAM.

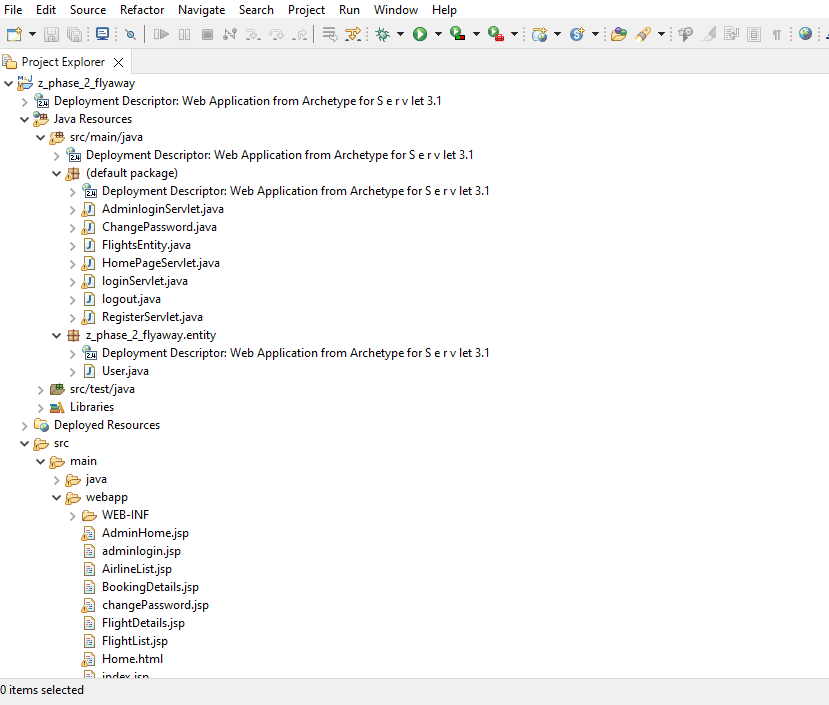
**ALGORITHM/ PROGRAM BUILDING:**

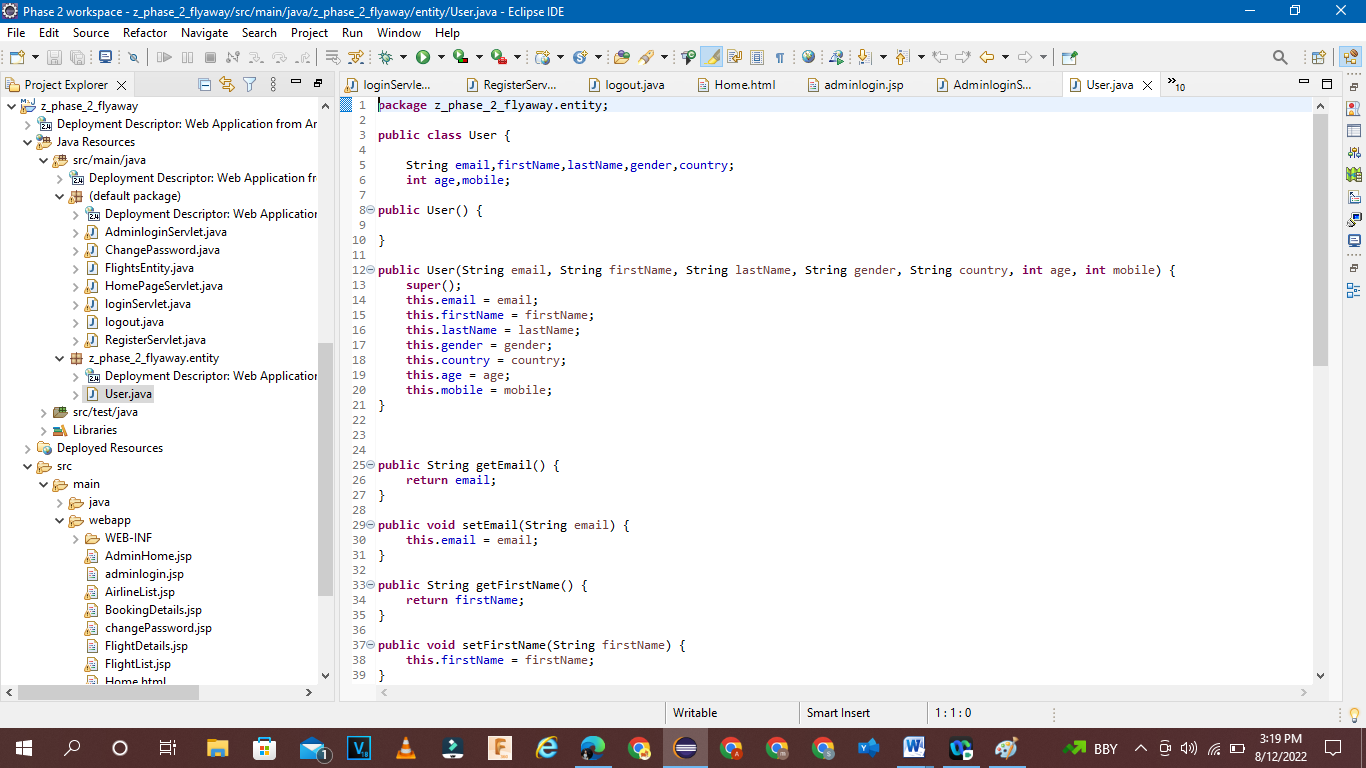
TO DEMONSTRATE THE CONCEPT USED WE ARE STATING THE ALGORITHMIC CONCEPT TO DESIGN THE PROGRAM.

* CREATE THE PROJECT IN ECLIPSE.
* WRITE A PROGRAM TO ALLOW THE ENTRY POINT OR WELCOME PAGE.
* WRITE PROGRAM TO CARRY OUT THE ENTIRE USER DEFINED OPERATIONS.
* RUN THE TEST CASE SCENARIOS.
* UPLOAD THE CONTENT INTO GITHUB LINK.

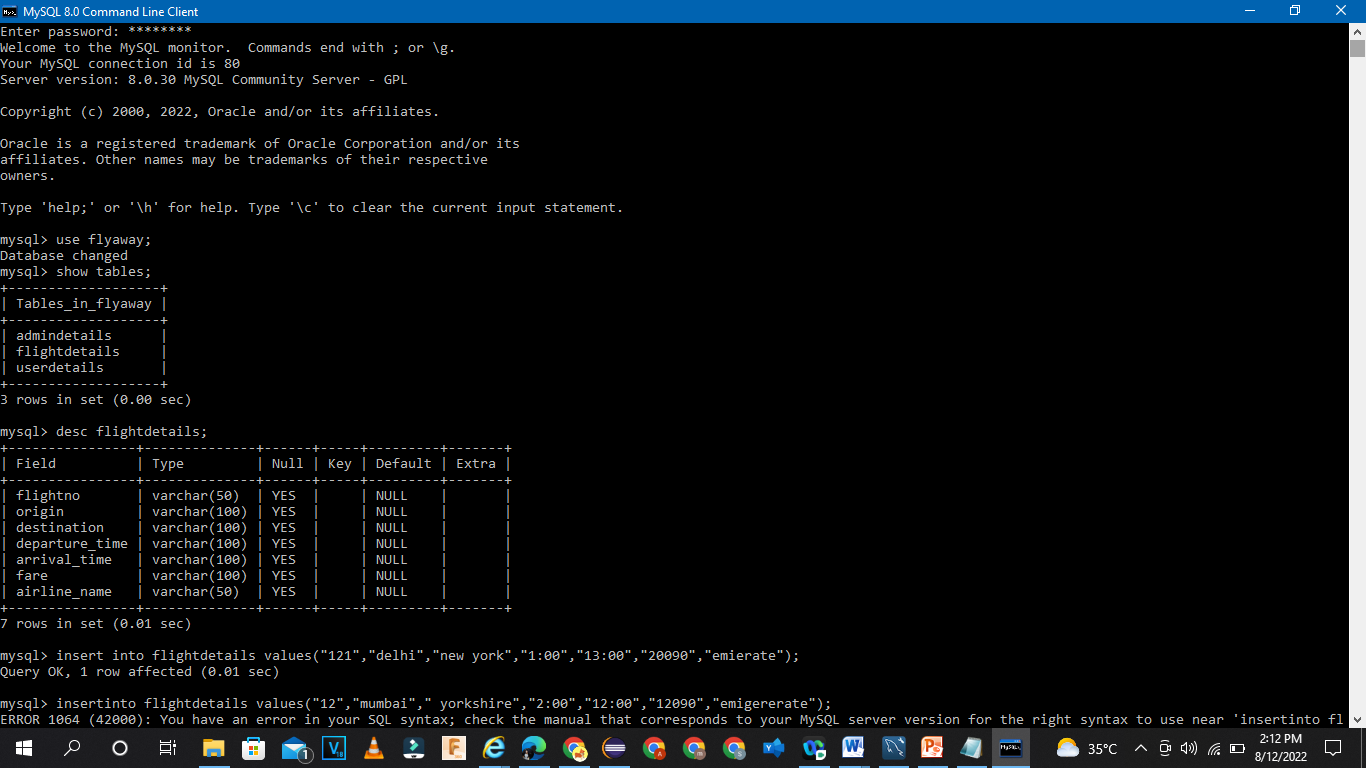
## **Step 1:** Creating a new project in Eclipse and SQL database

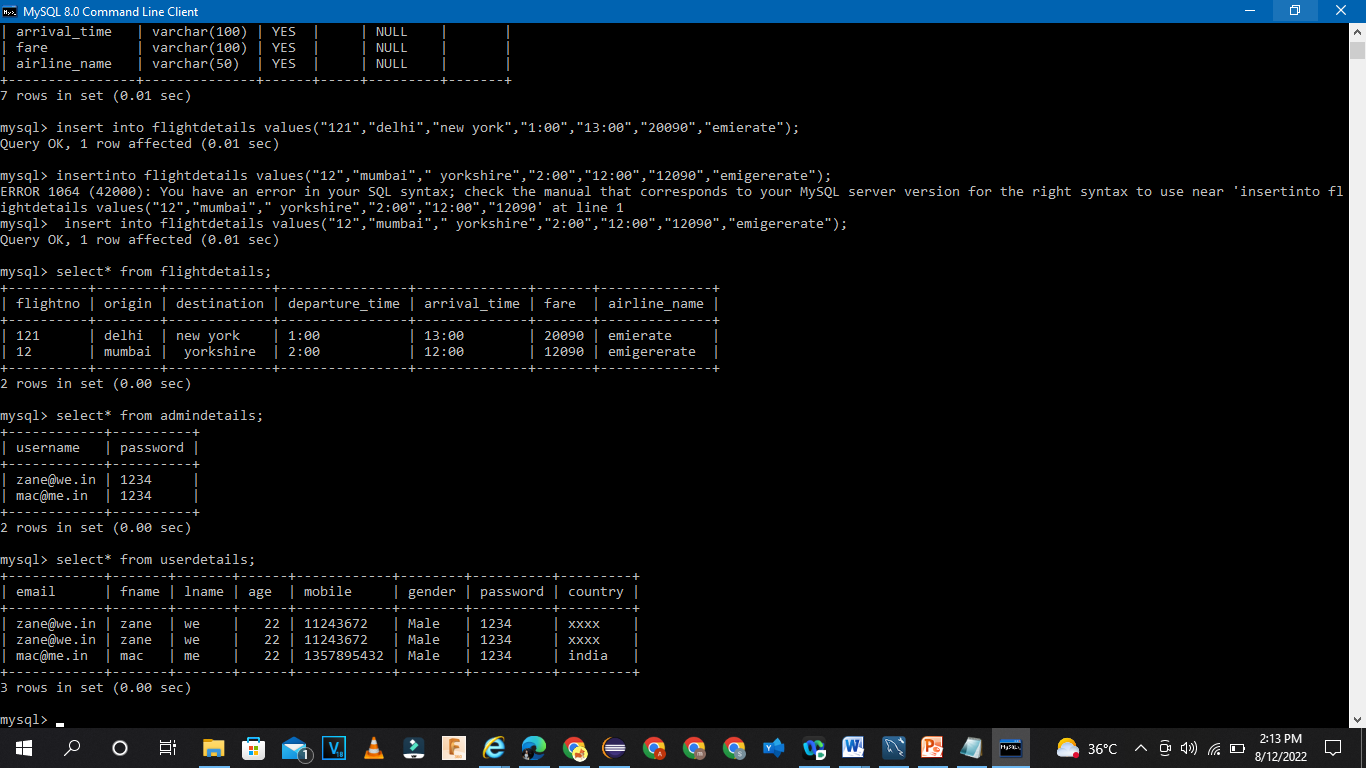
* Open Eclipse
* Go to File -> New -> Project -> Maven Project -> Next.
* Type in any project name and click on “Finish.”
* Select your project and go to File -> New -> Class.
* Create an entity from which the user defined values will be taken



. 

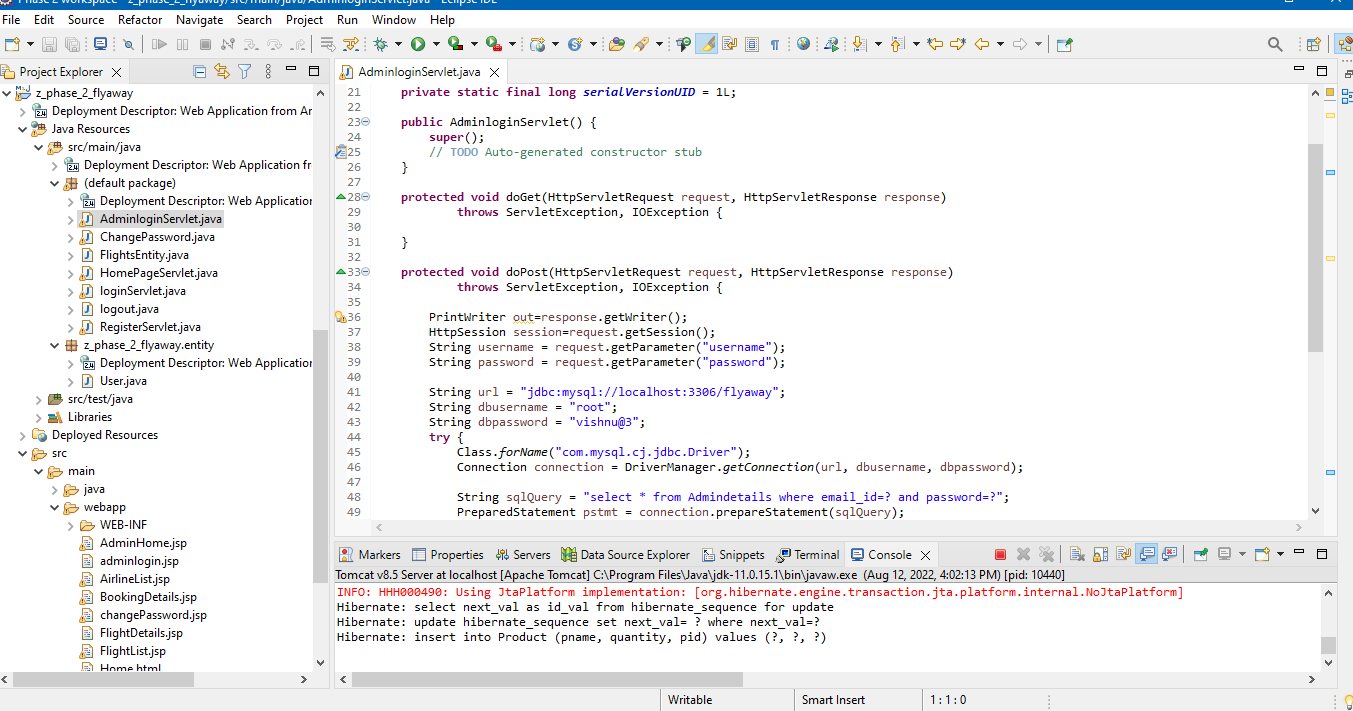
* Create a database in MySQL to access the database and details



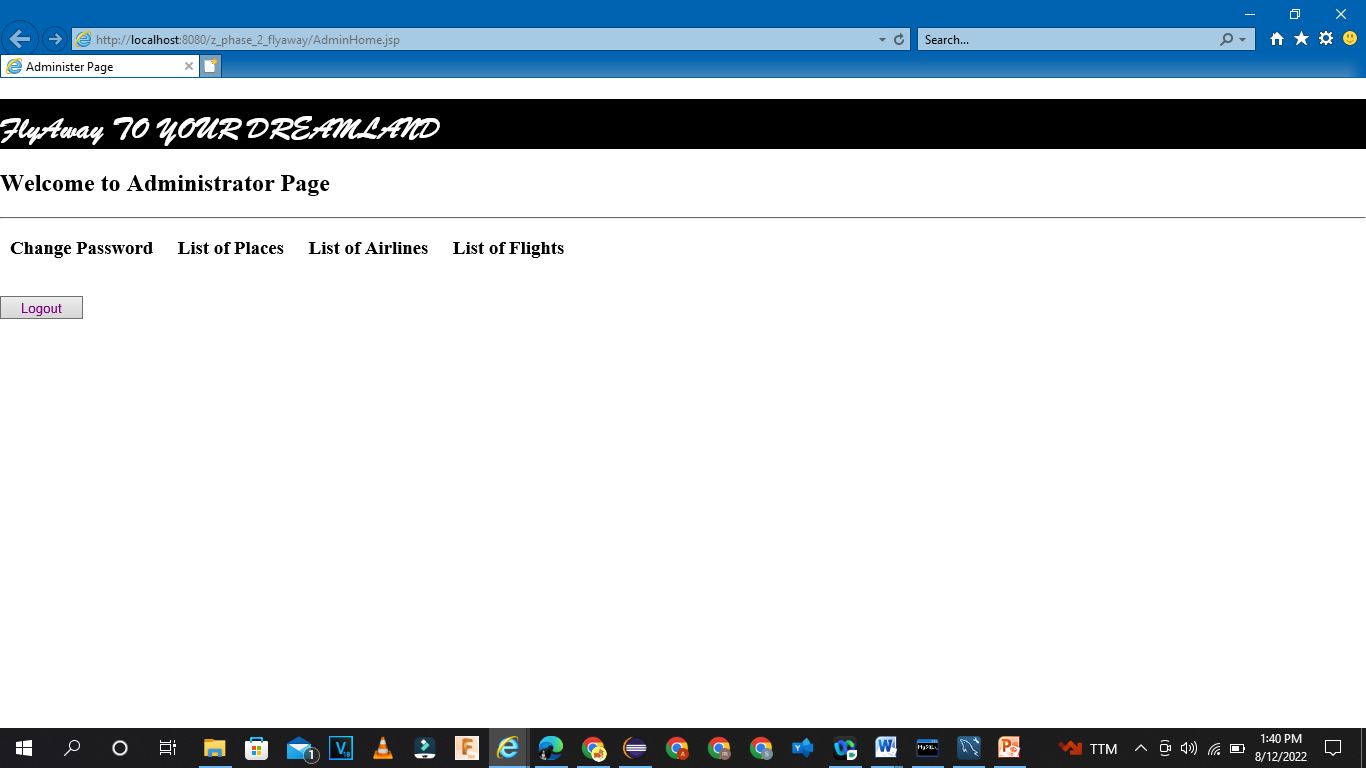


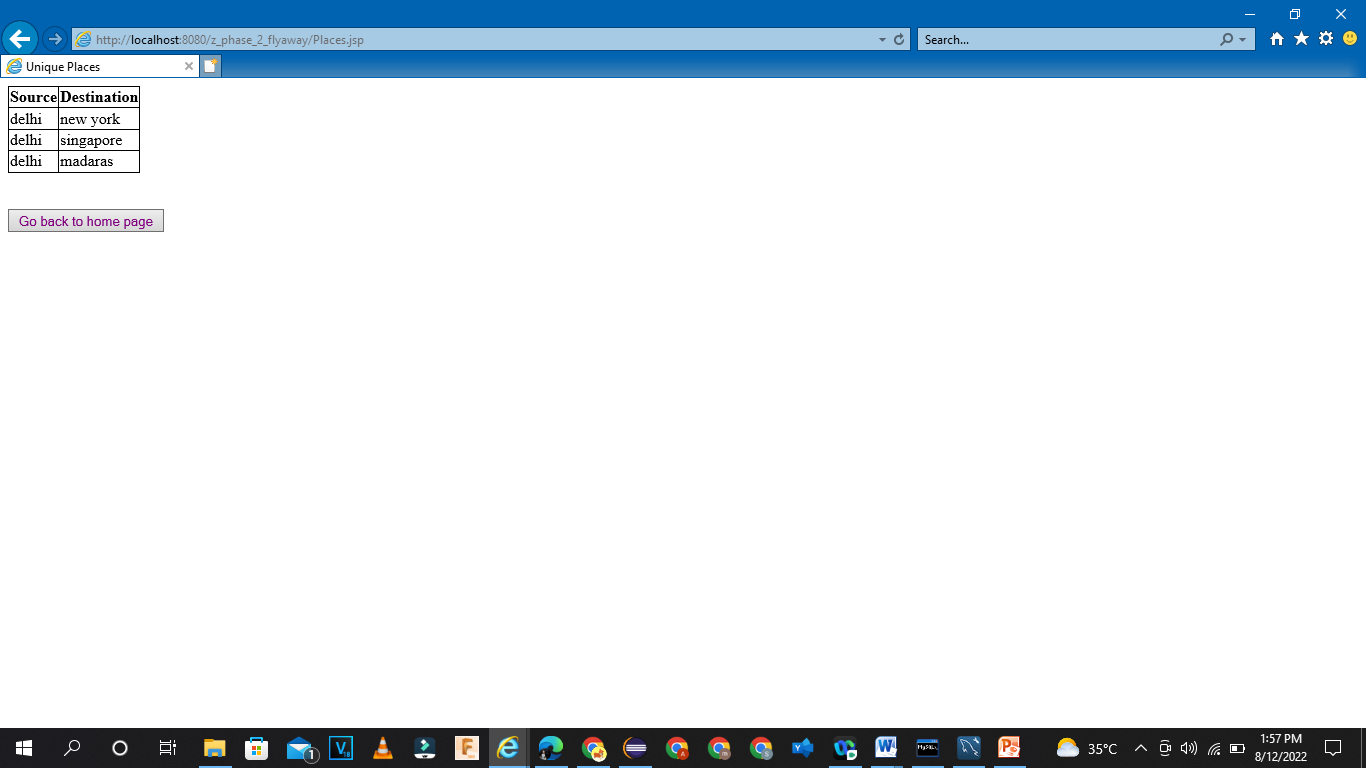
## **Step 2:** WRITE A PROGRAM TO ALLOW THE ENTRY POINT OR WELCOME PAGE

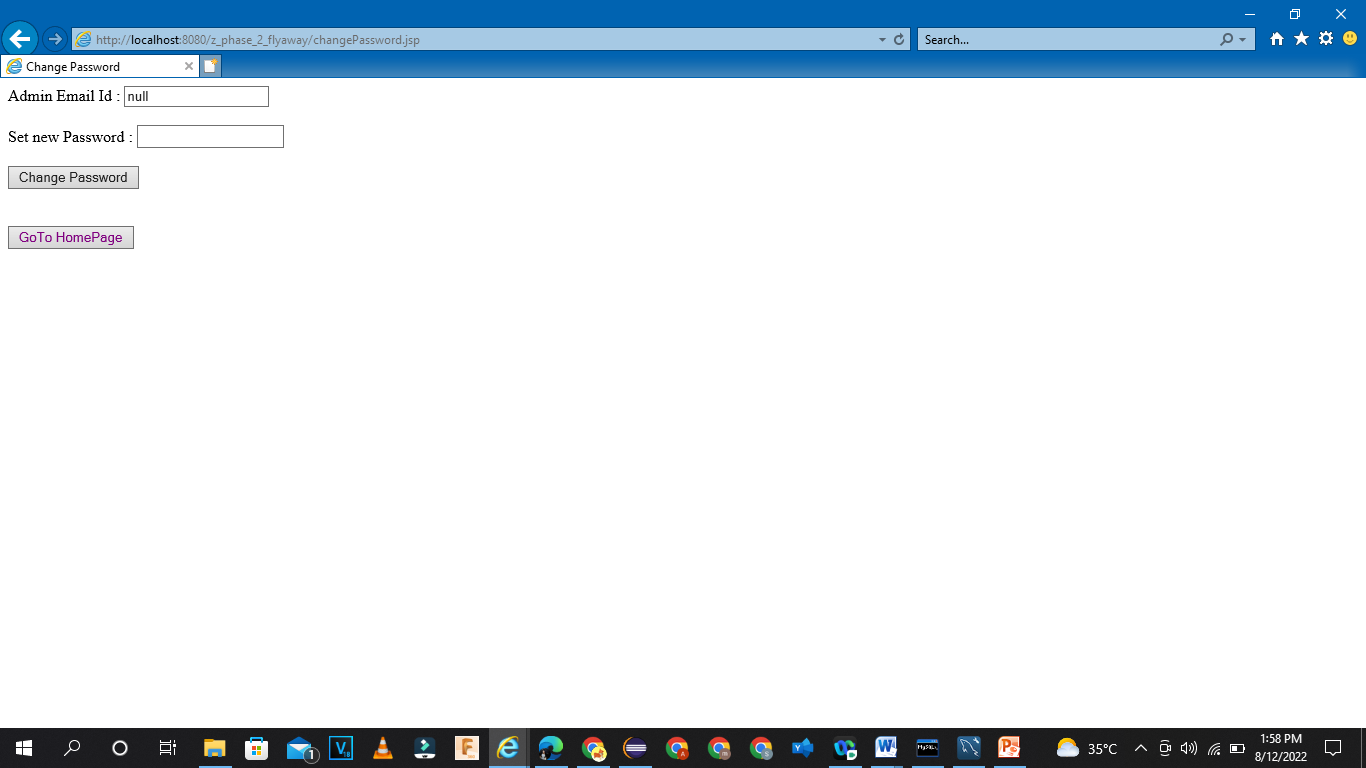
* We are creating maven project to include all the dependencies in the program. The maven folder contains all the required jar file details.
* We are creating a class page to get all the required data from the user.

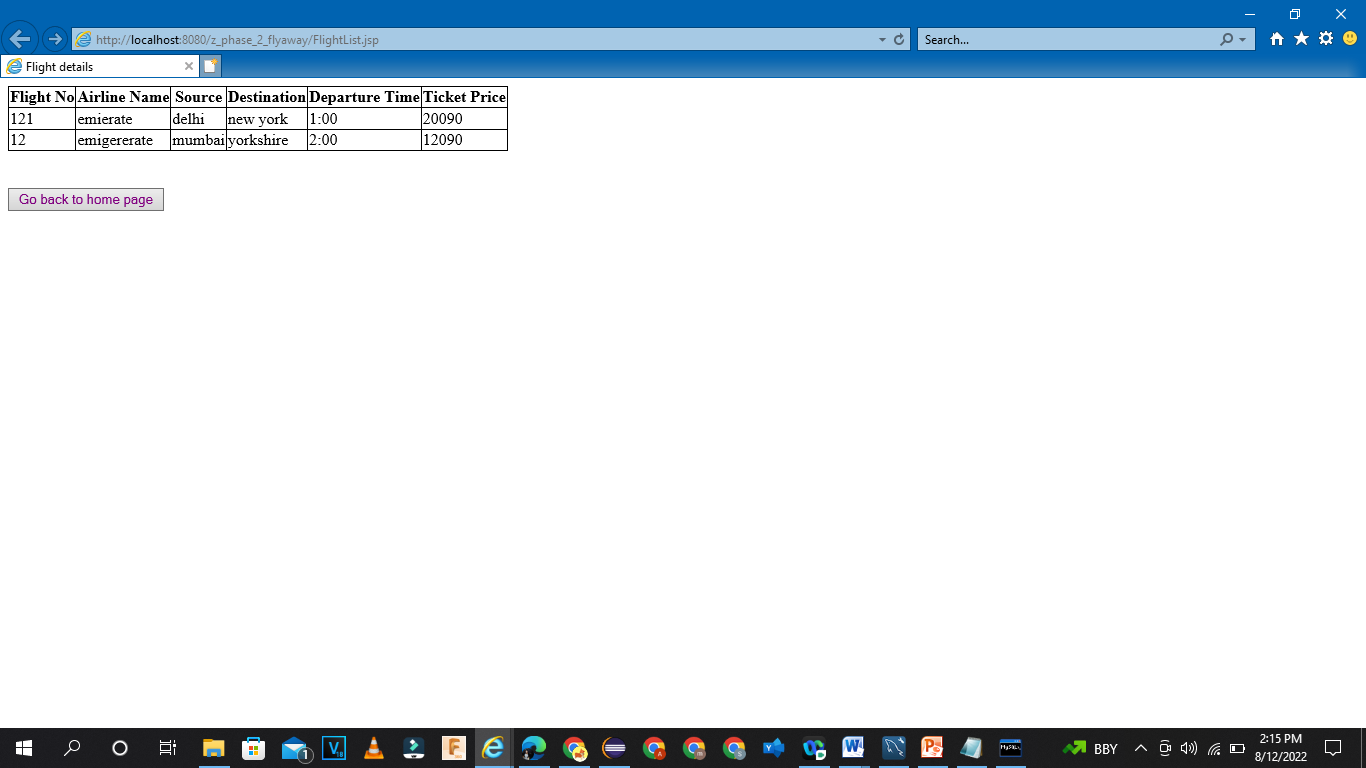


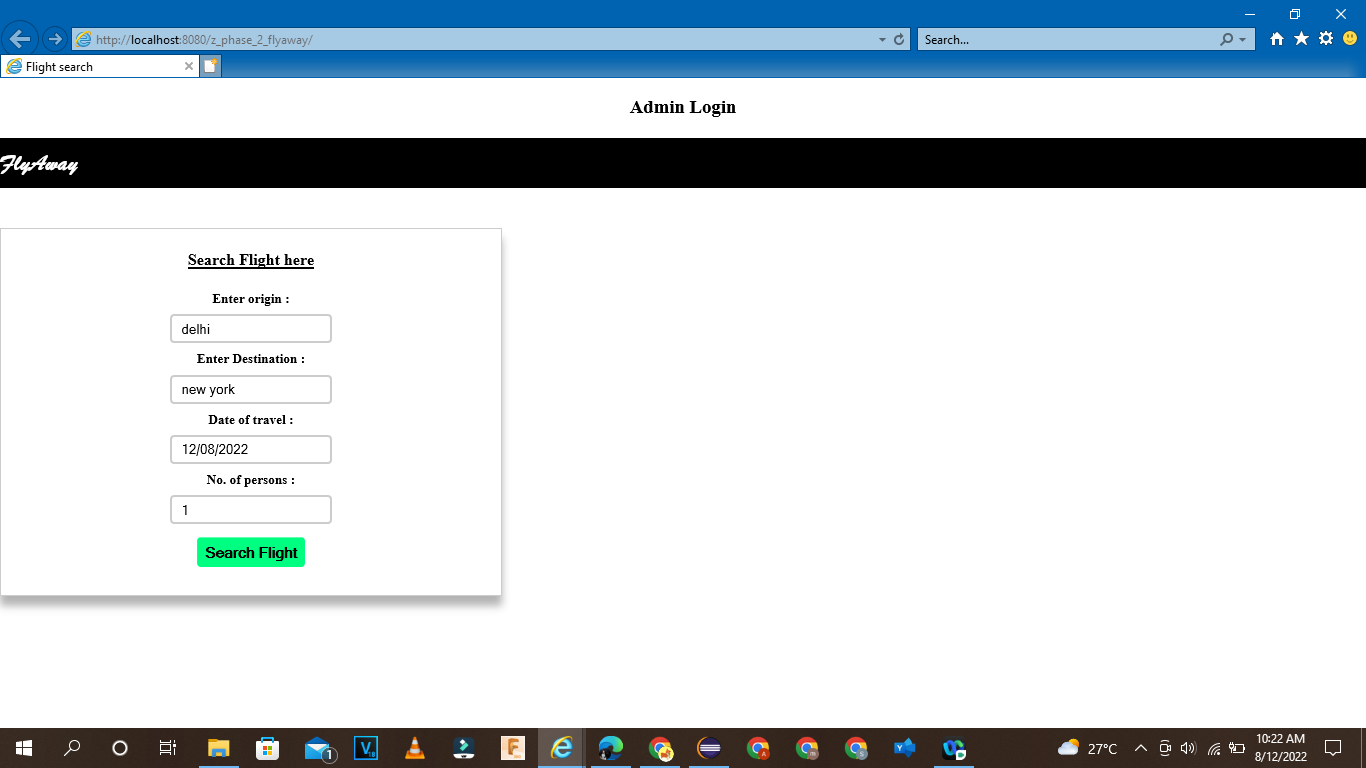
The output of the welcome page would be executed like this:







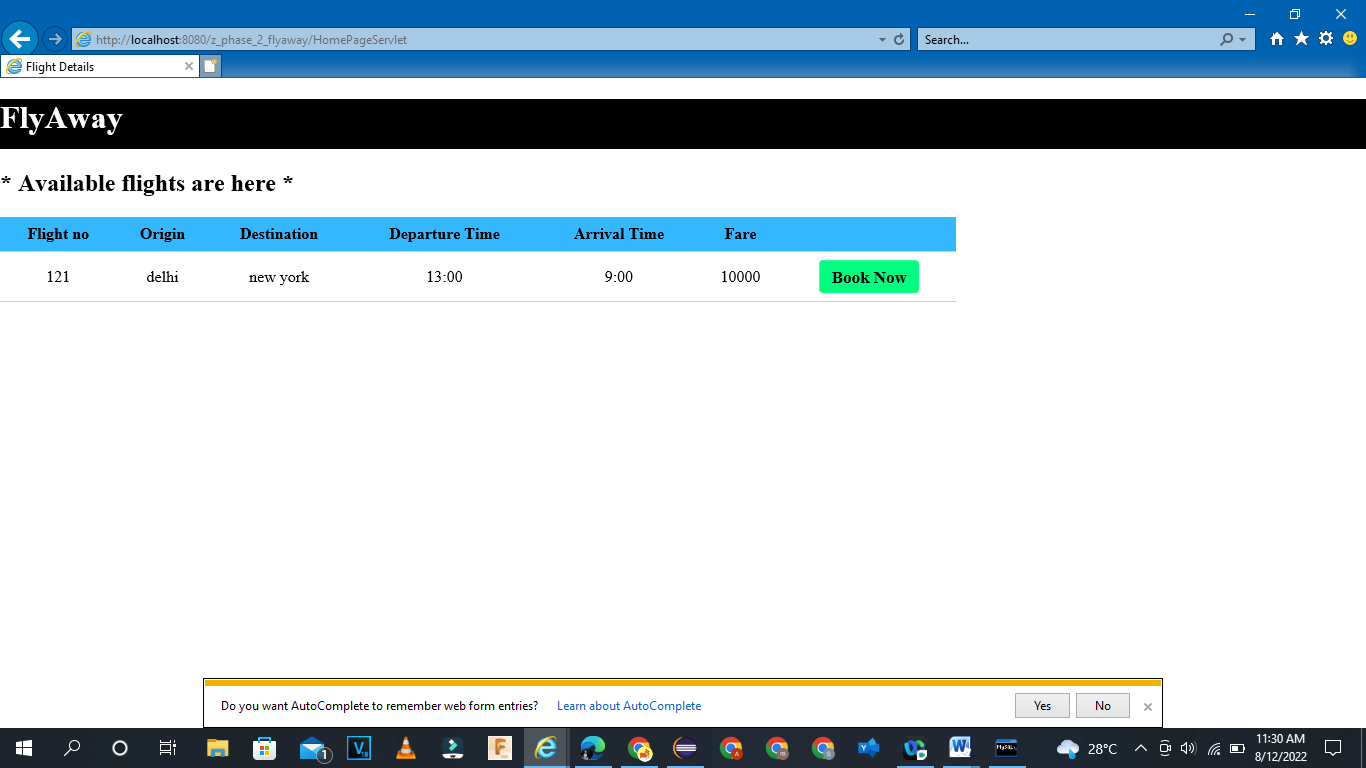




We have to enable the packages to be imported in so that the class could be extended and the required operations could be carried out.

**Step 3:** WRITE PROGRAM TO CARRY OUT THE ENTIRE USER DEFINED OPERATIONS.

We have to enable options to process and access the data from the data base.

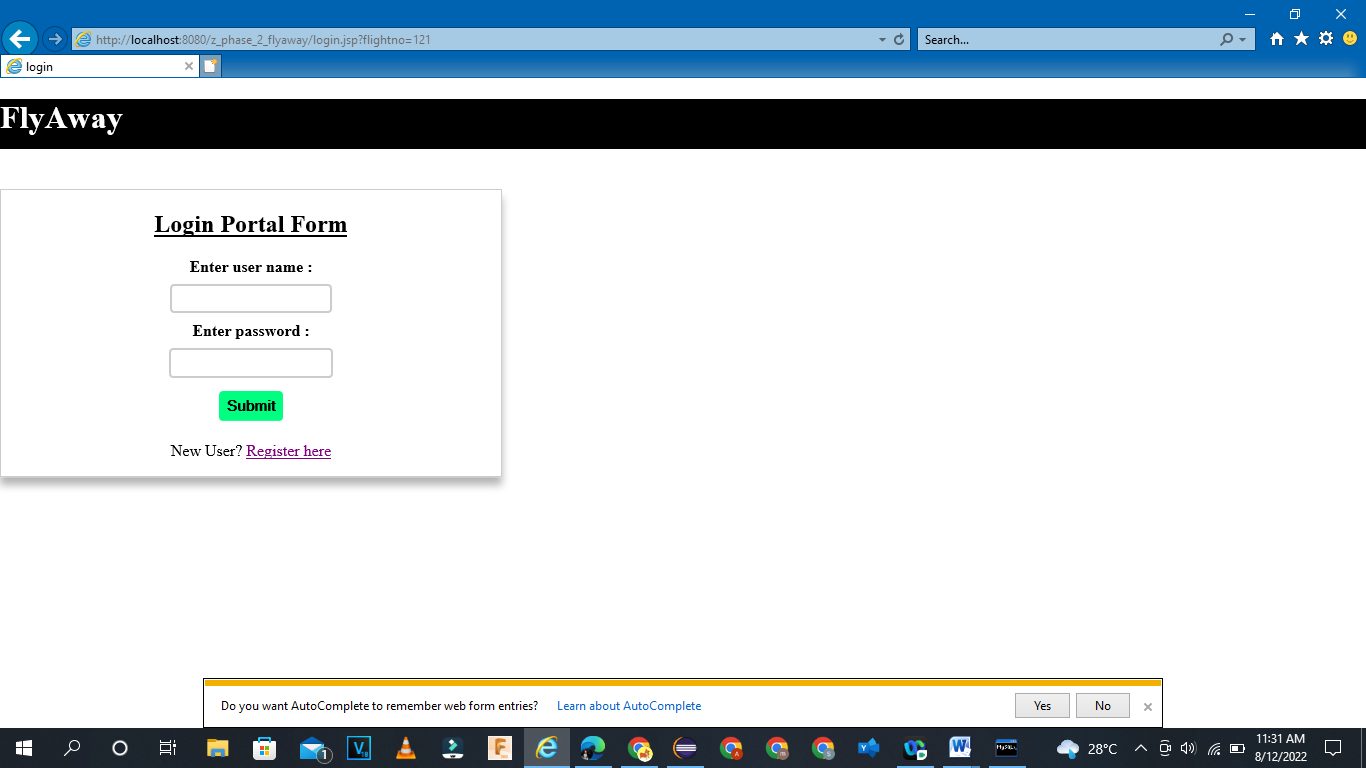


The user defined function here refers to accessing the data that has been feed to the database. We have two methods to access the data:

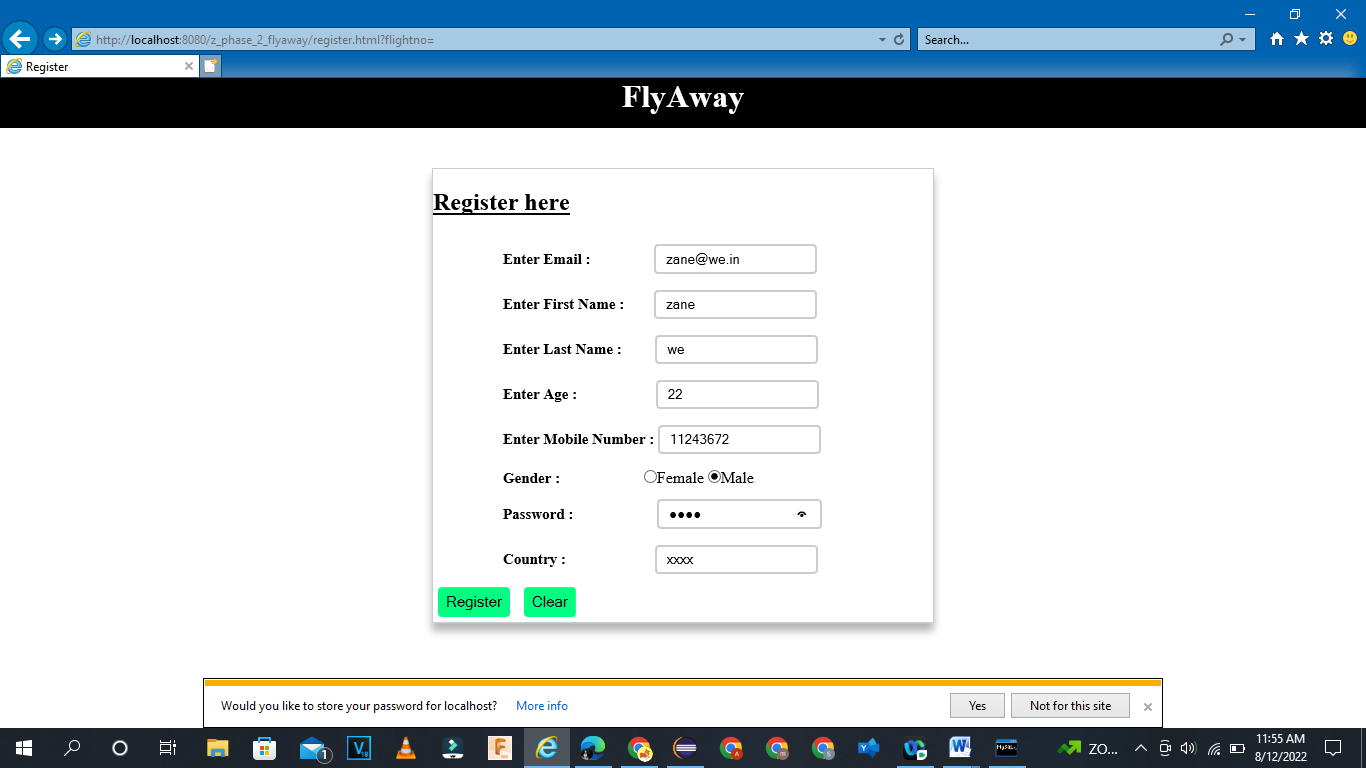
. 

The primary method is to access the data with pre-existing user data and knowledge

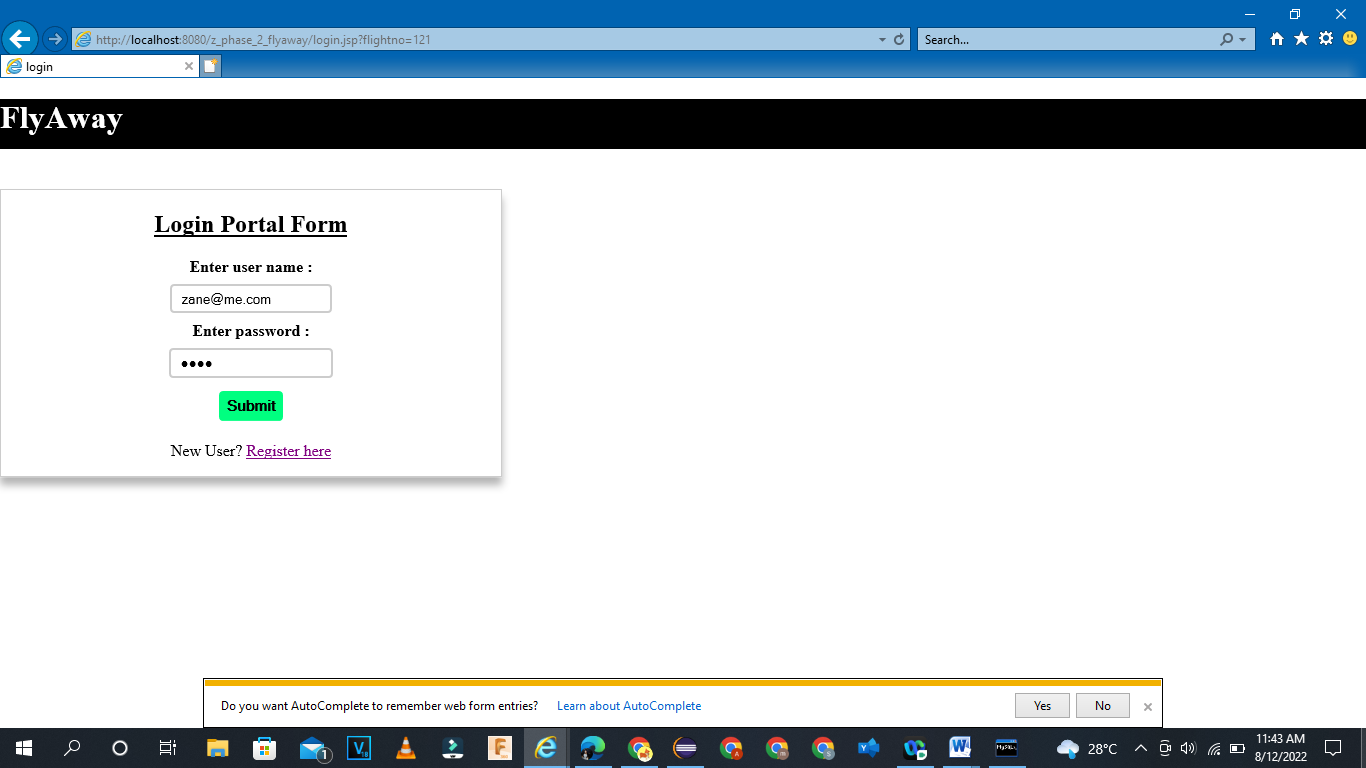
The another method is to create a new user login detail using the register.html page

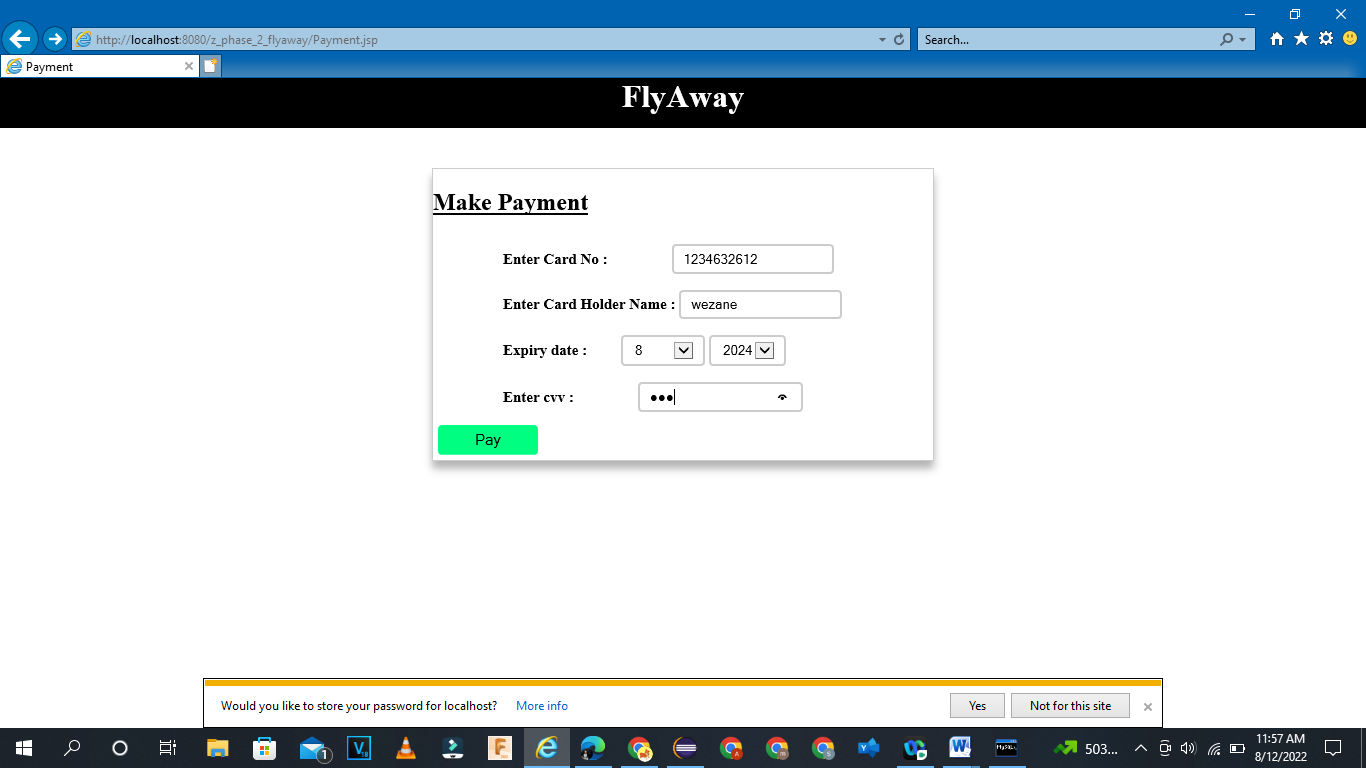


We are enabling both the function to showcase the action.

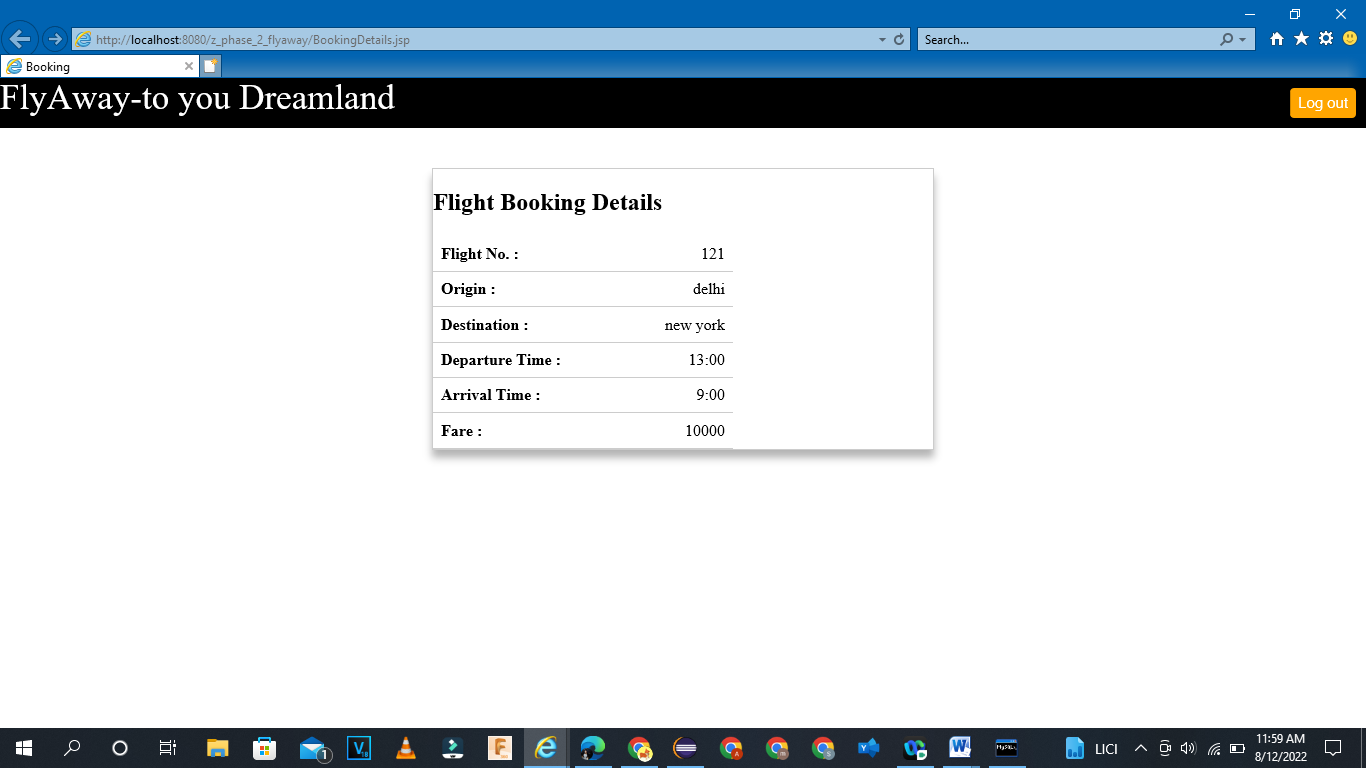


We are enabling to user to define the username and password in the database and accessing the database through that particular outlet





The final execution of the output page looks like this.



**CODE:**

**User class in the user defined package package** z\_phase\_2\_flyaway.entity;

**public** **class** User {

String email,firstName,lastName,gender,country;

**int** age,mobile;

**public** User() {}

**public** User(String email, String firstName, String lastName, String gender, String country, **int** age, **int** mobile) {

**super**();

**this**.email = email;

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.gender = gender;

**this**.country = country;

**this**.age = age;

**this**.mobile = mobile;

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getGender() {

**return** gender;

}

**public** **void** setGender(String gender) {

**this**.gender = gender;

}

**public** String getCountry() {

**return** country;

}

**public** **void** setCountry(String country) {

**this**.country = country;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** **int** getMobile() {

**return** mobile;

}

**public** **void** setMobile(**int** mobile) {

**this**.mobile = mobile;

}

@Override

**public** String toString() {

**return** "User [email=" + email + ", firstName=" + firstName + ", lastName=" + lastName + ", gender=" + gender

+ ", country=" + country + ", age=" + age + ", mobile=" + mobile + "]";

}}

**FLIGHT ENTITY CLASS: public** **class** FlightsEntity {

String flightno, origin, destination, date, departure\_time, arrival\_time;

**int** fare;

**public** **int** getFare() {

**return** fare;

}**public** **void** setFare(**int** fare) {

**this**.fare = fare;

}**public** String getFlightno() {

**return** flightno;

}

**public** **void** setFlightno(String flightno) {

**this**.flightno = flightno;

}**public** String getOrigin() {

**return** origin;

}**public** **void** setOrigin(String origin) {

**this**.origin = origin;

}**public** String getDestination() {

**return** destination;

}**public** **void** setDestination(String destination) {

**this**.destination = destination;

}**public** String getDate() {

**return** date;

}**public** **void** setDate(String date) {

**this**.date = date;

}**public** String getDeparture\_time() {

**return** departure\_time;

}**public** **void** setDeparture\_time(String departure\_time) {

**this**.departure\_time = departure\_time;

}**public** String getArrival\_time() {

**return** arrival\_time;

}**public** **void** setArrival\_time(String arrival\_time) {

**this**.arrival\_time = arrival\_time;

}**public** FlightsEntity() {

}**public** FlightsEntity(String flightno, String origin, String destination, String date, String departure\_time,

String arrival\_time, **int** fare) {

**super**();

**this**.flightno = flightno;

**this**.origin = origin;

**this**.destination = destination;

**this**.date = date;

**this**.departure\_time = departure\_time;

**this**.arrival\_time = arrival\_time;

**this**.fare = fare;

}@Override

**public** String toString() {

**return** "FlightsEntity [flightno=" + flightno + ", origin=" + origin + ", destination=" + destination + ", date="

+ date + ", departure\_time=" + departure\_time + ", arrival\_time=" + arrival\_time + ", fare=" + fare

+ "]";

}}

**LOGINSERVLET:**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import com.mysql.cj.Session;

@WebServlet("/AdminloginServlet")

public class AdminloginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;public AdminloginServlet() {

super();

// TODO Auto-generated constructor stub

}protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

PrintWriter out=response.getWriter();

HttpSession session=request.getSession();

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

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

String url = "jdbc:mysql://localhost:3306/flyaway";

String dbusername = "root";

String dbpassword = "vishnu@3";

try {

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

Connection connection = DriverManager.getConnection(url, dbusername, dbpassword);String sqlQuery = "select \* from Admindetails where email\_id=? and password=?";

PreparedStatement pstmt = connection.prepareStatement(sqlQuery);

pstmt.setString(1, username);

pstmt.setString(2, password);

ResultSet rs=pstmt.executeQuery();

if(rs.next()) {session.setAttribute("email", rs.getString("email\_id"));

response.sendRedirect("AdminHome.jsp");

}else {response.sendRedirect("admilogin.jsp");}} catch (Exception e) {

// TODO: handle exception}}}

**CHANGEPASSWORD SERVLET:**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/ChangePassword")

public class ChangePassword extends HttpServlet {

private static final long serialVersionUID = 1L;

public ChangePassword() {

super();}

// TODO Auto-generated constructor stub }protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

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

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

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

PrintWriter out=response.getWriter(); HttpSession session=request.getSession(false);

String url = "jdbc:mysql://localhost:3306/flyaway";

String dbusername = "root";

String dbpassword = "vishnu@3";

try {

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

Connection connection = DriverManager.getConnection(url, dbusername, dbpassword);String sqlQuery = "update Admindetails set password=? where email\_id=?";

PreparedStatement pstmt = connection.prepareStatement(sqlQuery);

pstmt.setString(1, newPassword);

pstmt.setString(2, email);

pstmt.executeUpdate();

request.setAttribute("newPass", newPassword);

request.setAttribute("msg", "Password changed Succcessfully");

RequestDispatcher rd=request.getRequestDispatcher("changePassword.jsp");

rd.forward(request, response);

} catch (Exception e) {

// TODO: handle exception

}}}

**HOMEPAGE SERVLET:**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/HomePageServlet")

public class HomePageServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

public HomePageServlet() {

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

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

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

String Destination=request.getParameter("destination");

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

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

String url="jdbc:mysql://localhost:3306/flyaway";

String username="root";

String password="vishnu@3";

try {

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

Connection con=DriverManager.getConnection(url,username,password);

String sql="select \* from flightdetails where origin=? and destination=?";

PreparedStatement pstmt=con.prepareStatement(sql);

pstmt.setString(1, origin);

pstmt.setString(2, Destination);

ResultSet rs=pstmt.executeQuery();

PrintWriter out=response.getWriter();con.close();

// request.setAttribute("origin", origin);

//request.setAttribute("destination", Destination);

FlightsEntity flightdetail=new FlightsEntity();

request.setAttribute("origin", origin);

request.setAttribute("destination", Destination);

request.setAttribute("date", date);

request.setAttribute("totalPerson", totalPerson);

//request.setAttribute("destination", Destination);

//request.getParameter("origin");

// request.getParameter("destination");

// request.getParameter("date");

// request.getParameter("totalPerson");

//HttpSession session =request.getSession();

// session.setAttribute("flight", flightdetail);

// response.sendRedirect("FlightDetails.jsp");

RequestDispatcher dispatcher=request.getRequestDispatcher("/FlightDetails.jsp");

dispatcher.forward(request, response);

}catch (Exception e) {

System.out.println("Some Error occured in connection"+e);

}}}

**LOGIN SERVELET:**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/loginServlet")

public class loginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

Connection connection; PreparedStatement pstmt;

public void dbInit() {

String url="jdbc:mysql://localhost:3306/flyaway";

String username="root";

String password="vishnu@3";

try {

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

connection=DriverManager.getConnection(url,username,password);

} catch (SQLException | ClassNotFoundException e) {

// TODO Auto-generated catch block

e.printStackTrace();

System.out.println("Some Error occured :"+ e);}

}

public loginServlet() {

super();}

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

HttpSession session = request.getSession();

Object flight= session.getAttribute("flightno");

PrintWriter out = response.getWriter();dbInit();

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

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

try {String sqlQuery="select \* from userdetails where email=? and password=?";

PreparedStatement pstmt=connection.prepareStatement(sqlQuery);pstmt.setString(1, UserName);

pstmt.setString(2, Password);

ResultSet rs=pstmt.executeQuery();

if(rs.next()) {

request.getSession().setAttribute(UserName, Password);

out=response.getWriter();

out.println("Welcome "+ rs.getString("fname")+" "+rs.getString("lname"));

session.setAttribute("flightno", flight);

response.sendRedirect("Payment.jsp");

}else { out.println("Please enter valid UserName and Password");

response.sendRedirect("login.jsp");

}} catch (SQLException e) {out.print("something went wrong"+e);}}}

**REGISTER SERVLET:**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import z\_phase\_2\_flyaway.entity.User;

import com.mysql.cj.Session;

@WebServlet("/RegisterServlet")

public class RegisterServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

Connection connection;

PreparedStatement pstmt;

public void dbInit() {

String url="jdbc:mysql://localhost:3306/flyaway";

String username="root";

String password="vishnu@3";

try {

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

connection=DriverManager.getConnection(url,username,password);

} catch (SQLException | ClassNotFoundException e) {

e.printStackTrace();

System.out.println("Some Error occured :"+ e);

}

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

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

PrintWriter out=response.getWriter(); try {

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

String FisrtName=request.getParameter("fname");

String LastName=request.getParameter("lname");

Integer Age=Integer.parseInt(request.getParameter("age"));

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

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

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

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

dbInit();

String sqlQuery="insert into userdetails values(?,?,?,?,?,?,?,?)";

PreparedStatement pstmt=connection.prepareStatement(sqlQuery);

pstmt=connection.prepareStatement(sqlQuery);

pstmt.setString(1, Email);

pstmt.setString(2, FisrtName);

pstmt.setString(3, LastName);

pstmt.setInt(4, Age);

pstmt.setString(5, mobile);

pstmt.setString(6, gender);

pstmt.setString(7, Password);

pstmt.setString(8, country); pstmt.executeUpdate();

out.print("Registeration Successful");

HttpSession httpSession=request.getSession();

if(httpSession!=null) {

request.getAttribute("flightno");

}

Object flight=httpSession.getAttribute("flightno");

httpSession.setAttribute("flightno", flight);

response.sendRedirect("Payment.jsp");

}catch (Exception e) {

out.print("something went wrong please try again");}}}

**JSP AND HTML PAGES:**

**ADMINHOME.JSP:**<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html><html>

<head>

<meta charset=*"ISO-8859-1"*>

<title> Administer Page</title>

<style>

**body**{

margin:*0*;

}

*.head*{

background-color :*black*;

color : *white*;

height : *50px*;

}

**h1**{

padding-top : *10px*;

font-family :*"Brush Script MT", Brush Script Std, cursive*;

}

}

**h2**{

padding-top : *10px*;

font-family : *"Lucida Console", "Courier New", monospace*;

h2 {text-align: *center*;}

}

**a**{

margin : *5px 5px*;

padding : *5px*;

text-decoration : *none*;

}

**h3**{

h3 {text-align: *center*;}}

</style>

</head>

<body>

<div class=*"head"*><h1>FlyAway TO YOUR DREAMLAND</h1>

</div>

<div><h2>

<% String email=(String)session.getAttribute("email");

out.println("Welcome to Administrator Page");

%>

</h2></div>

<hr>

<div class=*"topnav"*>

<h3><a href=*"changePassword.jsp"*style="text-decoration: *none*;color:*black*">Change Password</a>

<a href=*"Places.jsp"*style="text-decoration: *none*;color:*black*">List of Places</a>

<a href=*"AirlineList.jsp"*style="text-decoration: *none*;color:*black*">List of Airlines</a>

<a href=*"FlightsList.jsp"*style="text-decoration: *none*;color:*black*">List of Flights</a></h3>

</div>

<br>

<button ><a href=*"Home.html"* style="text-decoration:*none*">Logout</a></button>

</body>

</html>

**ADMINLOGIN:**

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Administer Login</title>

</head>

<body>

<form action=*"AdminloginServlet"* method=*"post"*>

USERNAME : <input type=*"email"* name=*"username"* required=*"required"*><br>

PASSWORD : <input type=*"password"* name=*"password"* required=*"required"*><br>

<button type=*"submit"*>Login</button>

</form>

</body>

</html>

**AIRLINELIST.JSP:** <%@page import=*"java.sql.ResultSet"*%>

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

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

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

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Airline List</title>

<style>

**table,** **th,** **td** {

border: *1px solid black*;

border-collapse: *collapse*;

}

</style>

</head>

<body>

<table>

<tr><th>Airline Name</th>

<th>Flight No</th>

</tr>

<% String url = "jdbc:mysql://localhost:3306/flyaway";

String dbusername = "root";

String dbpassword = "vishnu@3";

**try** {

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

Connection connection = DriverManager.getConnection(url, dbusername, dbpassword);

String sqlQuery = "select distinct airline\_name,flightno from flightdetails";

PreparedStatement pstmt = connection.prepareStatement(sqlQuery);

ResultSet rs=pstmt.executeQuery();

**while**(rs.next()){

%>

<tr>

<td><%= rs.getString("airline\_name")%></td>

<td><%= rs.getString("flightno")%></td>

</tr>

<% }%>

<%

} **catch** (Exception e) {

// TODO: handle exception

}

%>

</table>

<br>

<br>

<div class=*"center"*>

<button ><a href=*"AdminHome.jsp"*  style="text-decoration:*none*">Go back to home page</a></button>

</div>

</body>

</html>

**BOOKINGDETAILS.JSP:** <%@page import=*"java.sql.ResultSet"*%>

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

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

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

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

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Booking</title>

<style>

**body**{

margin : *0*;

padding : *0*;

color:*sky blue*;

}

*.head*{

background-color : *#000*;

color : *#fff*;

height : *50px*;

}

**h1**{

margin: *auto*;

font-family : *"Times New Roman", Times, serif*;

text-align : *center*;

}

**span**{

margin: *auto*;

font-family : *"Times New Roman", Times, serif*;

text-align : *center*;

font-size : *35px*;

}

**button**{

margin : *10px*;

border-radius: *4px*;

border:*none*;

height: *30px*;

display : *inline-block*;

font-size : *15px*;

font-width : *bold*;

background-color: *orange*;

}

**a**{

text-decoration : *none*;

color : *#fff*;

}

*.details-box*{

margin :*auto*;

margin-top : *40px*;

width : *500px*;

border : *1px solid #ccc*;

box-shadow : *0 8px 12px 0px rgba(0,0,0,0.3)*;

positive : *absolute*;

}

**table** {

border-collapse: *collapse*;

width: *60%*;

}

**th**{

text-align: *left*;

padding: *8px*;

}

**td**{

text-align: *right*;

padding: *8px*;

}

**tr***:nth-child*(*even*){border-bottom : *1px solid #ccc*;}

**tr***:nth-child*(*odd*){border-bottom : *1px solid #ccc*;}

</style>

</head>

<body>

<div class=*"center"*>

<div class=*"head"*>

<span>FlyAway-to you Dreamland</span>

<button style="float:*right*;"><a href=*"/logout"*>Log out</a></button>

</div>

<div class=*"details-box"*>

<%

Object s=session.getAttribute("flightno");

String url="jdbc:mysql://localhost:3306/flyaway";

String username="root";

String password="vishnu@3";

**try** {

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

Connection connection=DriverManager.getConnection(url,username,password);

String sqlQuery="select \* from flightdetails where flightno=?";

PreparedStatement pstmt=connection.prepareStatement(sqlQuery);

// pstmt.setString(1, no);

pstmt.setObject(1, s);

// out.println(no);

ResultSet rs=pstmt.executeQuery();

**while**(rs.next()){

/\* out.println("Flightno:"+rs.getString("flightno"));

out.println("Origin is:"+rs.getString("origin"));

out.println("Destination is:"+rs.getString("destination"));

out.println("Departure time is:"+rs.getString("departure\_time"));

out.println("Arrival time is:"+rs.getString("arrival\_time"));

out.println("Fare is:"+rs.getString("fare")); \*/

%>

<div>

<h2><b>Flight Booking Details</b></h2>

<table>

<tr><th align=*"center"*>Flight No. : </th><td><%=rs.getString("flightno")%></td></tr>

<tr><th align=*"center"*>Origin : </th><td><%=rs.getString("origin")%></td></tr>

<tr><th align=*"center"*>Destination : </th><td><%=rs.getString("destination")%></td></tr>

<tr><th align=*"center"*>Departure Time : </th><td><%=rs.getString("departure\_time")%></td></tr>

<tr><th align=*"center"*>Arrival Time : </th><td><%=rs.getString("arrival\_time")%></td></tr>

<tr><th align=*"center"*>Fare : </th><td><%=rs.getString("fare")%></td></tr>

</table>

</div>

<% }

} **catch** (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

System.out.println("Some Error occured :"+ e);

}

%>

</div>

</div>

</body>

</html>

**CHANGEPASSWORD.JSP:** <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Change Password</title>

</head>

<body>

<form action=*"ChangePassword"* method=*"post"*>

Admin Email Id : <input name=*"email"* value=*"*<%= session.getAttribute("email")%>*"* readonly=*"readonly"*>

<br>

<br>

Set new Password : <input type=*"password"* name=*"password"* required=*"required"*>

<br>

<br>

<button type=*"submit"*>Change Password</button>

</form>

<br>

<br>

<div class=*"center"*>

<button><a href=*"AdminHome.jsp"* style="text-decoration:*none*;">GoTo HomePage</a></button>

</div>

</body>

</html>

**FLIGHTDETAILS.JSP:**

<%@page import=*"java.util.ArrayList"*%>

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

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

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

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

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Flight Details</title>

<style>

**body**{

margin : *0*;

padding : *0*;

}

*.head*{

background-color : *#000*;

color : *#fff*;

height : *50px*;

}

**h1**{

font-family : *"Times New Roman", Times, serif*;

}

**table** {

border-collapse: *collapse*;

width: *70%*;

}

**th,** **td** {

text-align: *center*;

padding: *8px*;

}

**tr***:nth-child*(*even*){border-bottom : *1px solid #ccc*;}

**tr***:nth-child*(*odd*){border-bottom : *1px solid #ccc*;}

**th** {

background-color: *#33B7FF*;

}

**a**{

text-decoration : *none*;

border-radius: *4px*;

border:*none*;

height: *25px*;

width : *100px*;

padding-top : *8px*;

display : *inline-block*;

font-size : *17px*;

background-color: *rgb(0, 255, 128)*;

color : *#000*;

}

</style>

</head>

<body>

<div class=*"center"*>

<div>

<div class=*"head"*>

<h1>FlyAway</h1>

</div>

</div>

<div>

<h2>\* Available flights are here \*</h2>

<table>

<tr>

<th>Flight no</th>

<th>Origin</th>

<th>Destination</th>

<th>Departure Time</th>

<th>Arrival Time</th>

<th>Fare</th><th></th>

</tr>

<%!String url = "jdbc:mysql://localhost:3306/flyaway";

String username = "root";

String password = "vishnu@3";

%>

<%

String origin = (String) request.getAttribute("origin");

String des = (String) request.getAttribute("destination");

String date=(String)request.getAttribute("date");

String totalPerson=(String)request.getAttribute("totalPerson");

**try** {

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

Connection con = DriverManager.getConnection(url, username, password);

String sql = "select \* from flightdetails where origin=? and destination=?";

PreparedStatement pstmt = con.prepareStatement(sql);

pstmt.setString(1, origin);

pstmt.setString(2, des);

ResultSet rs = pstmt.executeQuery();

**while** (rs.next()) {

session.setAttribute("fare", rs.getString("fare"));

session.setAttribute("departure\_time", rs.getString("departure\_time"));

session.setAttribute("arrival\_time",rs.getString("arrival\_time"));

%>

<tr>

<td><%= rs.getString("flightno") %></td>

<td><%= rs.getString("origin")%></td>

<td><%= rs.getString("destination")%></td>

<td><%= rs.getString("departure\_time")%></td>

<td><%= rs.getString("arrival\_time")%></td>

<td><%= rs.getString("fare")%></td>

<td> <a href=*"login.jsp?flightno=*<%= rs.getString("flightno") %>*"*><b>Book Now</b></a></td>

</tr>

<%

}

} **catch** (Exception e) {

out.print("Something wrong " + e);

}

%>

</table>

</div>

</div>

</body>

</html>

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

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

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

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

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Flight details</title>

<style>

**table,** **th,** **td** {

border: *1px solid black*;

border-collapse: *collapse*;

}

</style>

</head>

<body>

<table>

<tr>

<th>Flight No</th>

<th>Airline Name</th>

<th>Source</th>

<th>Destination</th>

<th>Departure Time</th>

<th>Ticket Price</th>

</tr>

<%

String url = "jdbc:mysql://localhost:3306/flyaway";

String dbusername = "root";

String dbpassword = "vishnu@3";

**try** {

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

Connection connection = DriverManager.getConnection(url, dbusername, dbpassword);

String sqlQuery = "select flightno,airline\_name,origin,destination,departure\_time,fare from flightdetails";

PreparedStatement pstmt = connection.prepareStatement(sqlQuery);

ResultSet rs = pstmt.executeQuery();

**while** (rs.next()) {

%>

<tr>

<td><%=rs.getString("flightno")%></td>

<td><%=rs.getString("airline\_name")%></td>

<td><%=rs.getString("origin")%></td>

<td><%=rs.getString("destination")%></td>

<td><%=rs.getString("departure\_time")%></td>

<td><%=rs.getString("fare")%></td>

</tr>

<%

}

%>

<%

} **catch** (Exception e) {

// TODO: handle exception

}

%>

</table>

<br>

<br>

<div class=*"center"*>

<button ><a href=*"AdminHome.jsp"* style="text-decoration:*none*">Go back to home page</a></button>

</div>

</body>

</html>

**LOGIN.JSP:** <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>login</title>

<style>

**body**{

margin : *0*;

padding : *0*;

}

*.head*{

background-color : *#000*;

color : *#fff*;

height : *50px*;

}

**h1**{

font-family : *"Times New Roman", Times, serif*;

}

*.login-box*{

margin-top : *40px*;

width : *500px*;

border : *1px solid #ccc*;

box-shadow : *0 8px 12px 0px rgba(0,0,0,0.3)*;

positive : *absolute*;

text-align: *center*;

}

**input**{

padding: *5px 10px*;

margin: *8px 0*;

display: *inline-block*;

border: *2px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

**button**{

border-radius: *4px*;

border:*none*;

height: *30px*;

display : *inline-block*;

font-size : *15px*;

background-color: *rgb(0, 255, 128)*;

margin : *5px*;

}

</style>

</head>

<body>

<div class=*"center"*>

<div class=*"head"*>

<h1>FlyAway</h1>

</div>

<div class=*"center"*>

<%

String flightn = request.getParameter("flightno");

session.setAttribute("flightno", flightn);

%>

<div class=*"login-box"*>

<div>

<h2><u>Login Portal Form</u></h2>

</div>

<form action=*"loginServlet"* method=*"post"*>

<label><b>Enter user name : </b></label><br/>

<input type=*"email"* name=*"email"* required=*"required"*><br>

<label><b>Enter password : </b></label><br/>

<input type=*"password"* name=*"password"*

required=*"required"*><br>

<button type=*"submit"*><b>Submit</b></button>

<br>

<p>

New User? <a href=*"register.html?flightno=*<% session.setAttribute("flightno",flightn);%>*"*>Register here</a>

</p>

</form>

</div>

</div>

</div>

</body>

</html>

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

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Payment</title>

<style>

**body**{

margin : *0*;

padding : *0*;

}

*.head*{

background-color : *#000*;

color : *#fff*;

height : *50px*;

}

**h1**{

margin: *auto*;

font-family : *"Times New Roman", Times, serif*;

text-align : *center*;

}

*.pay-box*{

margin :*auto*;

margin-top : *40px*;

width : *500px*;

border : *1px solid #ccc*;

box-shadow : *0 8px 12px 0px rgba(0,0,0,0.3)*;

positive : *absolute*;

}

**label**{

font-weight : *bold*;

padding-left: *70px* ;

font-size: *15px*;

}

**input**{

padding: *5px 10px*;

margin: *8px 0*;

display: *inline-block*;

border: *2px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

**select**{

padding: *5px 10px*;

margin: *8px 0*;

display: *inline-block*;

border: *2px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

**button**{

border-radius: *4px*;

border:*none*;

height: *30px*;

width : *100px*;

display : *inline-block*;

font-size : *15px*;

font-width : *bold*;

background-color: *rgb(0, 255, 128)*;

margin : *5px*;

}

</style>

</head>

<body>

<div class=*"head"*>

<h1>FlyAway</h1>

</div>

<%

Object flight=session.getAttribute("flightno");

%>

<div class=*"pay-box"*>

<div>

<h2><div class=*"center"*><u>Make Payment</u></div></h2>

</div>

<form action=*"BookingDetails.jsp"* method=*"post"*>

<label style="padding-right: *60px*;">Enter Card No :</label>

<input type=*"text"* name=*"cardno"* placeholder=*"Card Number"*><br/>

<label>Enter Card Holder Name :</label>

<input type=*"text"* name=*"nameoncard"* placeholder=*"Name on card"* ><br/>

<label style="padding-right: *30px*;">Expiry date :</label>

<span><select name=*month*>Month

<option >Month</option>

<% **for**(**int** i=1;i<=12;i++){ %>

<option value=*"*<% out.println(i); %>*"*><% out.println(i); %></option>

<%} %>

</select>

<select name=*year*>Year

<option >Year</option>

<% **for**(**int** i=2020;i<=2030;i++){ %>

<option value=*"*<% out.println(i); %>*"*><% out.println(i); %></option>

<%} %>

</select></span><br>

<label style="padding-right: *60px*;"> Enter cvv :</label>

<input type=*"password"* name=*"cvv"* placeholder=*" Enter your cvv"* maxlength=*"3"* >

<br>

<div class=*"center"*><button type=*"submit"* name=*"submit"*>Pay</button></div>

</form>

</div>

</body>

</html>

**REGISTER.HTML** <!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Register</title>

<style>

**body{**

*m*a**rgin : 0**;

pad**ding** : 0;

}

.head{

b*ackg*round-color : #000*;*

*c*olor : #fff;

he*ight* : 50px;

**}**

h1{

margin: *auto;*

font-family : *"Tim*es New Roman", *Times, serif*;

text-align *: center;*

*}*

.register-box{

mar*gin* :auto;

margin-t*op : 40px;*

width : **500px;**

border : 1px solid *#c*cc;

box-sh*adow* : 0 8px 12p*x 0p*x rgba(0,0,0,0*.3);*

*posit*ive : absolute;

*}*

label{

font-wei*ght* : bold;

padding-left*: 70px ;*

*font-*size: 15px;

*}*

input{

padding: 5px 10px;

margin: 8px 0;

display: inline-block;

border: 2px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

button{

border-radius: 4px;

border:none;

height: 30px;

display : inline-block;

font-size : 15px;

font-width : bold;

background-color: rgb(0, 255, 128);

margin : 5px;

}

</style>

</head>

<body>

<div class=*"head"*>

<h1>FlyAway</h1>

</div>

<div class=*"register-box"*>

<div>

<h2><div class=*"center"*><u>Register here</u></div></h2>

</div>

<div>

<form action=*"RegisterServlet"* method=*"post"*>

<label style="padding-right: *60px*;">Enter Email : </label><input type=*"email"* name=*"email"* required=*"required"*><br>

<label style="padding-right: *30px*;">Enter First Name :</label><input type=*"text"* name=*"fname"* required=*"required"*><br>

<label style="padding-right: *30px*;">Enter Last Name : </label><input type=*"text"* name=*"lname"* required=*"required"*><br>

<label style="padding-right: *75px*;">Enter Age : </label><input type=*"number"* name=*"age"* maxlength=*"2"* required=*"required"*> <br>

<label>Enter Mobile Number : </label><input type=*"text"* name=*"mobile"* maxlength=*"10"* required=*"required"*><br>

<label style="padding-right: *80px*;">Gender : </label><span><input type=*"radio"* name=*"gender"* value=*"female"*>Female

<input type=*"radio"* name=*"gender"* value=*"Male"*>Male</span><br/>

<label style="padding-right: *80px*;">Password : </label><input type=*"password"* name=*"password"*><br/>

<label style="padding-right: *85px*;">Country : </label><input type=*"text"* name=*"country"* required=*"required"*><br>

<div class=*"center"*><button type=*"submit"*>Register</button> <button type=*"reset"*>Clear</button> </div>

</form>

</div>

</div>

</body>

**CORE CONCEPTS USED:**

* MAVEN
* DEPENDENCY
* SERVLETS
* JSP
* HTML &XML PAGES
* EXCEPTION HANDLING
* CONDITIONAL STATEMENTS

**GITHUB LINK:**

[**https://github.com/akash-n/assesment**](https://github.com/akash-n/assesment)

**UNIQUE POINTS OF THE PROGRAM:**

* 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.
* The application has been designed to take continuous inputs even during exception states. The program does not stop due to error and throw able value.TO prevent the Stop the program ,we have opt for the correct option.
* User is also provided the option to write content if they want into the newly created database.

**CONCLUSION:**

Thus, all the required data modulation according to the problem statement has been designed. Further, enhancement or modification is also available to

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