ADVANCED JAVA PROJECT
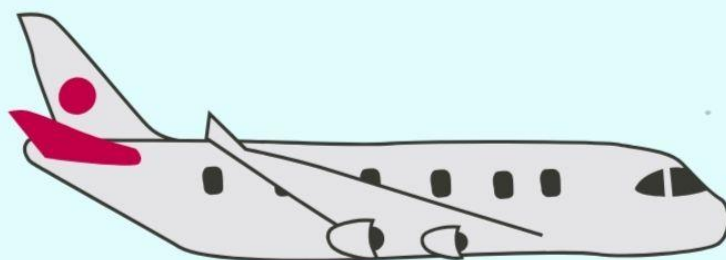
SEMESTER 3 GROUP 10

Topic : Airline Reservation System using Servlets and JDBC

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Project Overview

The Airline Reservation System is designed to streamline flight booking processes, enabling users to create accounts, book flights, and generate receipts for their bookings. The system is built using Java Servlets and JDBC for backend processing and MySQL for database management. It provides a user-friendly interface for both customers and administrators, allowing the management of flight schedules and passenger information.

Functionalities

1. **User Registration and Login:**

   o Users can create an account by providing their name, email, password, and age.

   o Login functionality allows registered users to access the system.

2. **Flight Booking:**

   o Users can book flights by selecting a flight number, entering their travel details, and choosing a flight class.

   o Booking data is stored in the MySQL database under the Booking table.

3. **View Bookings:**

   o Users can view their current bookings.

   o The system fetches booking details based on the user's session data.

4. **Add Flights (Admin Functionality):**

   o Admin users can add new flight details, including flight number, date, and available seats.

   o This feature allows administrators to manage available flights in the system.

5. **Flight Status:**

   o Users can check the status of available flights, including route information and availability.

Database Structure

- **Users Table:** Stores user information such as name, email, password, and age.

- **Booking Table:** Stores information about the flights booked by users, including flight_number, flight_date, passenger_name, passenger_age, and flight_class.

- **Flight_Status Table:** Stores information about available flights, including flight routes, timings, and seat availability.

Technologies Used

- **Backend:** Java Servlets, JDBC

- **Frontend:** JSP, HTML, CSS, Bootstrap

- **Database:** MySQL

- **IDE:** NetBeans

- **Server:** Apache Tomcat

Future Enhancements

1. **Payment Gateway Integration:** Implementing payment processing for flight bookings, allowing users to make online payments for their tickets.

2. **Enhanced Admin Panel:** Adding more admin functionalities, such as editing flight details, viewing all bookings, and generating reports.

3. **User Notifications:** Implementing an email notification system to inform users about their booking status, cancellations, or delays.

4. **Seat Selection:** Adding the ability for users to select specific seats while booking their flights.

5. **Enhanced Security:** Implementing two-factor authentication (2FA) for user accounts and encrypting sensitive data like passwords.

6. **Mobile App Integration:** Expanding the system into a mobile application, allowing users to book flights and check flight statuses from their smartphones.

Source Code:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>BharatYatra - Airline Reservation System</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
  <!-- Custom CSS -->
  <style>
    body {
      background-image: url('images/airplane.jpg');
```

```css
        background-size: cover;
        background-position: center;
        color: white;
    }
    .overlay {
        background-color: rgba(0, 0, 0, 0.7);
        padding: 50px 0;
    }
    .card {
        background-color: rgba(255, 255, 255, 0.9);
    }
    .navbar {
        background-color: rgba(0, 51, 102, 0.9);
    }
    footer {
        background-color: rgba(0, 51, 102, 0.9);
    }
    .btn-primary {
        background-color: #0066cc;
        border-color: #0066cc;
    }
    .btn-success {
        background-color: #009900;
        border-color: #009900;
    }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="#">BharatYatra</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav ms-auto">
                    <li class="nav-item">
                        <a class="nav-link" href="login.html">Login</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="signup.html">Sign Up</a>
                    </li>
                </ul>
            </div>
        </div>
```

```html
        </div>
    </nav>

    <!-- Main Content -->
    <div class="overlay">
        <div class="container my-5">
            <div class="row">
                <!-- Welcome Message -->
                <div class="col-12 text-center mb-5">
                    <h1>Welcome to BharatYatra</h1>
                    <p>Your gateway to seamless air travel across India. Book your next journey with us!</p>
                </div>

                <!-- Login Card -->
                <div class="col-md-6 mb-4">
                    <div class="card">
                        <div class="card-body text-center">
                            <h5 class="card-title">Login</h5>
                            <p class="card-text">Already a member? Log in to manage your bookings and explore new destinations.</p>
                            <a href="login.html" class="btn btn-primary">Login</a>
                        </div>
                    </div>
                </div>

                <!-- Signup Card -->
                <div class="col-md-6 mb-4">
                    <div class="card">
                        <div class="card-body text-center">
                            <h5 class="card-title">Sign Up</h5>
                            <p class="card-text">New to BharatYatra? Join us and experience hassle-free flight bookings and exclusive deals.</p>
                            <a href="signup.html" class="btn btn-success">Sign Up</a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>

    <!-- Footer -->
    <footer class="text-light text-center py-3">
        <p>&copy; 2024 BharatYatra. All rights reserved. | <a href="#" class="text-light">Terms & Conditions</a></p>
    </footer>

    <!-- Bootstrap JS -->
```
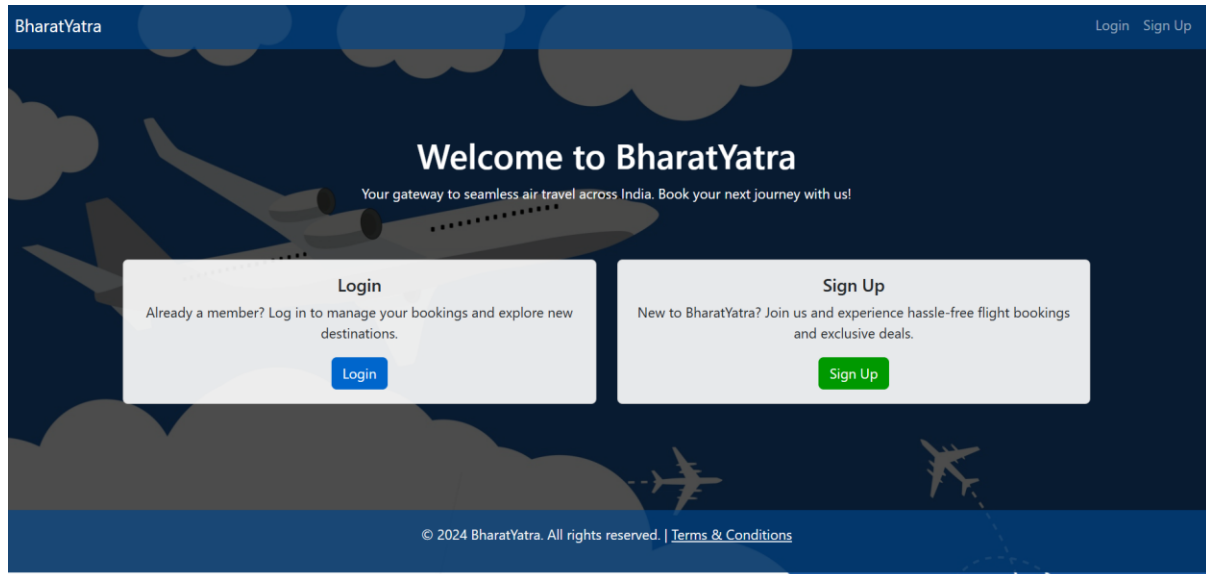
```html
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```


Signup.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sign Up - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
```

```
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-success {
            background-color: #009900;
            border-color: #009900;
        }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="index.html">BharatYatra</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav ms-auto">
                    <li class="nav-item">
                        <a class="nav-link" href="login.html">Login</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link active" aria-current="page" href="signup.html">Sign Up</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>

    <!-- Main Content -->
    <div class="overlay">
        <div class="container my-5">
            <div class="row justify-content-center">
                <div class="col-md-6">
                    <div class="card">
                        <div class="card-body">
                            <h2 class="text-center">Sign Up</h2>
                            <p class="text-center">Join BharatYatra and experience seamless flight
bookings!</p>
                            <form action="SignupServlet" method="post">
                                <div class="mb-3">
                                    <label for="name" class="form-label">Full Name</label>
                                    <input type="text" class="form-control" id="name" name="name"
required>
                                </div>
```

```html
            <div class="mb-3">
                <label for="email" class="form-label">Email Address</label>
                <input type="email" class="form-control" id="email" name="email" required>
            </div>
            <div class="mb-3">
                <label for="password" class="form-label">Password</label>
                <input type="password" class="form-control" id="password" name="password" required>
            </div>
            <div class="mb-3">
                <label for="age" class="form-label">Age</label>
                <input type="number" class="form-control" id="age" name="age" required>
            </div>
            <button type="submit" class="btn btn-success w-100">Sign Up</button>
        </form>
      </div>
     </div>
    </div>
   </div>
  </div>

  <!-- Footer -->
  <footer class="text-light text-center py--3">
    <p>&copy; 2024 BharatYatra. All rights reserved.</p>
  </footer>

  <!-- Bootstrap JS -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Signupservlet

```java
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.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```java
@WebServlet("/SignupServlet")
public class SignupServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    private static final String DB_URL = "jdbc:mysql://localhost:3306/ARS";
    private static final String DB_USER = "root";
    private static final String DB_PASSWORD = "kshiti";

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // Setting response content type
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Retrieving form parameters
        String name = request.getParameter("name");
        String email = request.getParameter("email");
        String password = request.getParameter("password");
        int age = Integer.parseInt(request.getParameter("age"));

        // Basic validation
        if (name.isEmpty() || email.isEmpty() || password.isEmpty() || age <= 0) {
            out.println("<h3 style='color:red;'>All fields are required and must be valid.</h3>");
            return;
        }

        Connection conn = null;
        PreparedStatement pstmt = null;

        try {
            // Load MySQL JDBC Driver (if necessary)
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Establishing database connection
            conn = DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);

            // Preparing SQL query to insert user data into the database
            String sql = "INSERT INTO users (name, email, password, age) VALUES (?, ?, ?, ?)";
            pstmt = conn.prepareStatement(sql);

            // Setting parameters for the query
            pstmt.setString(1, name);
            pstmt.setString(2, email);
            pstmt.setString(3, password);
            pstmt.setInt(4, age);
```

```
        // Executing the query
        int rowsInserted = pstmt.executeUpdate();
        if (rowsInserted > 0) {
            out.println("<h3 style='color:green;'>Signup successful! Welcome to
BharatYatra.</h3>");
            // Redirect to login page
            response.sendRedirect("login.html");
        } else {
            out.println("<h3 style='color:red;'>Signup failed. Please try again.</h3>");
        }

    } catch (SQLException | ClassNotFoundException e) {
        e.printStackTrace();
        out.println("<h3 style='color:red;'>Database error occurred: " + e.getMessage() +
"</h3>");
    } finally {
        // Closing resources
        try {
            if (pstmt != null) pstmt.close();
            if (conn != null) conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
  }
}
```


Login.jsp

```
<%--
    Document   : login
    Created on : 03-Sept-2024, 7:44:18 pm
    Author     : Kshiti
--%>
```

```jsp
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-primary {
            background-color: #0066cc;
            border-color: #0066cc;
        }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="index.jsp">BharatYatra</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
```

```html
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item">
            <a class="nav-link active" aria-current="page" href="login.jsp">Login</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="signup.jsp">Sign Up</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Main Content -->
  <div class="overlay">
    <div class="container my-5">
      <div class="row justify-content-center">
        <div class="col-md-6">
          <div class="card">
            <div class="card-body">
              <h2 class="text-center">Login</h2>
              <p class="text-center">Welcome back to BharatYatra! Please log in to
manage your bookings and travel plans.</p>

              <!-- Display error messages based on the query parameters -->
              <%
                String error = request.getParameter("error");
                if (error != null) {
                  if (error.equals("invalidCredentials")) {
              %>
                  <div class="alert alert-danger" role="alert">
                    Invalid email or password. Please try again.
                  </div>
              <%
                  } else if (error.equals("emptyFields")) {
              %>
                  <div class="alert alert-warning" role="alert">
                    Please fill in all the fields.
                  </div>
              <%
                  } else if (error.equals("databaseError")) {
              %>
                  <div class="alert alert-danger" role="alert">
                    A database error occurred. Please try again later.
                  </div>
              <%
                  }
                }
```

```html
                %>

                <form action="LoginServlet" method="post">
                    <div class="mb-3">
                        <label for="email" class="form-label">Email Address</label>
                        <input type="email" class="form-control" id="email" name="email"
required>
                    </div>
                    <div class="mb-3">
                        <label for="password" class="form-label">Password</label>
                        <input type="password" class="form-control" id="password"
name="password" required>
                    </div>
                    <button type="submit" class="btn btn-primary w-100">Login</button>
                </form>
                <div class="mt-3 text-center">
                    <p>Don't have an account? <a href="signup.jsp">Sign up here</a></p>
                </div>
            </div>
        </div>
      </div>
    </div>
  </div>

  <!-- Footer -->
  <footer class="text-light text-center py-3">
      <p>&copy; 2024 BharatYatra. All rights reserved.</p>
  </footer>

  <!-- Bootstrap JS -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Loginservlet

```java
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.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```java
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    // Database connection details
    private static final String DB_URL = "jdbc:mysql://localhost:3306/ARS";
    private static final String DB_USER = "root";
    private static final String DB_PASSWORD = "kshiti";

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // Setting response content type
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Retrieving form parameters
        String email = request.getParameter("email");
        String password = request.getParameter("password");

        // Basic validation
        if (email.isEmpty() || password.isEmpty()) {
            // Redirect to login page with error message
            response.sendRedirect("login.jsp?error=emptyFields");
            return;
        }

        Connection conn = null;
        PreparedStatement pstmt = null;
        ResultSet rs = null;

        try {
            // Load MySQL JDBC Driver (if necessary)
            Class.forName("com.mysql.cj.jdbc.Driver");

            // Establishing database connection
            conn = DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);

            // Preparing SQL query to check user credentials
            String sql = "SELECT * FROM users WHERE email = ? AND password = ?";
            pstmt = conn.prepareStatement(sql);
            pstmt.setString(1, email);
            pstmt.setString(2, password);

            // Executing the query
```

```
            rs = pstmt.executeQuery();

            if (rs.next()) {
                // User is authenticated, redirect to home page
                response.sendRedirect("home.jsp");
            } else {
                // Invalid credentials, redirect back to login with an error
                response.sendRedirect("login.jsp?error=invalidCredentials");
            }
        } catch (SQLException | ClassNotFoundException e) {
            e.printStackTrace();
            // Redirect to login page with database error
            response.sendRedirect("login.jsp?error=databaseError");
        } finally {
            // Closing resources
            try {
                if (rs != null) rs.close();
                if (pstmt != null) pstmt.close();
                if (conn != null) conn.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}
```
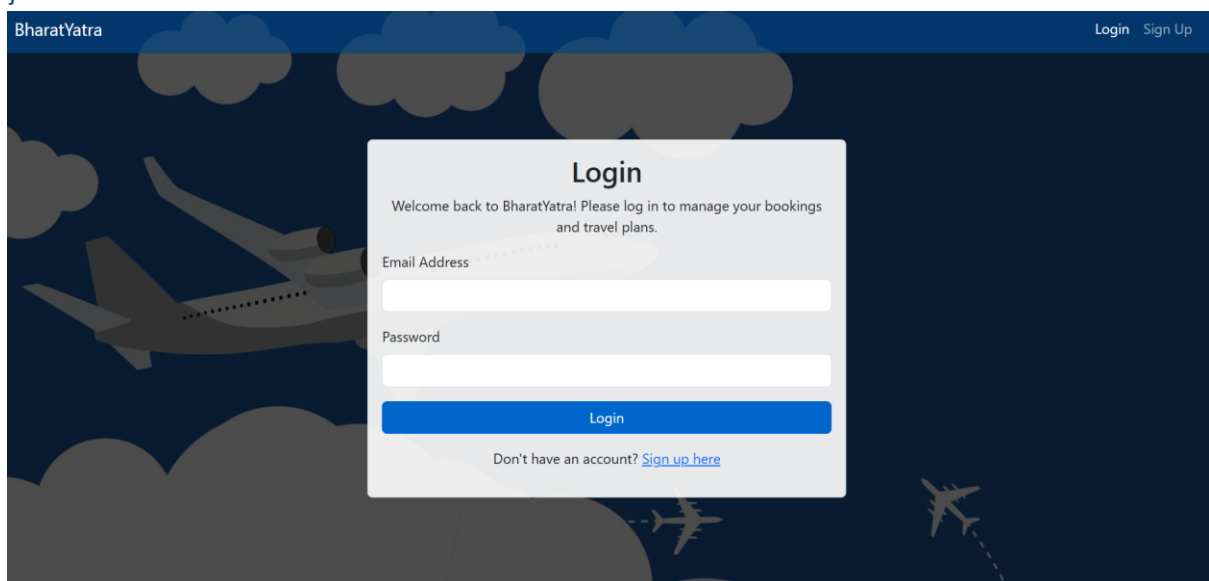

Logout.jsp

```
<%--
    Document   : logout
    Created on : 03-Sept-2024, 8:24:35 pm
    Author     : Kshiti
--%>
```

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Logout - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-primary {
            background-color: #0066cc;
            border-color: #0066cc;
        }
    </style>
</head>
<body>

    <!-- Main Content -->
    <div class="overlay">
        <div class="container my-5">
            <div class="row justify-content-center">
                <div class="col-md-6">
                    <div class="card">
                        <div class="card-body text-center">
                            <h2>You have been logged out</h2>
```

```html
            <p>Thank you for using BharatYatra. You are now logged out.</p>
            <a href="login.html" class="btn btn-primary">Login Again</a>
          </div>
        </div>
      </div>
    </div>
  </div>

  <!-- Footer -->
  <footer class="text-light text-center py-3">
    <p>&copy; 2024 BharatYatra. All rights reserved.</p>
  </footer>

  <!-- Bootstrap JS -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>

  <%-- Logout logic --%>
  <%
    // Invalidate the session
    session.invalidate();
    // Redirect to login page
    response.sendRedirect("index.html");
  %>
</body>
</html>
```

Home.jsp

```html
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-
8"%>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home - BharatYatra</title>
  <!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
  <!-- Custom CSS -->
  <style>
    body {
      background-image: url('images/airplane.jpg');
      background-size: cover;
      background-position: center;
      color: white;
```

```
      }
      .overlay {
         background-color: rgba(0, 0, 0, 0.7);
         padding: 50px 0;
      }
      .card {
         background-color: rgba(255, 255, 255, 0.9);
      }
      .navbar {
         background-color: rgba(0, 51, 102, 0.9);
      }
      footer {
         background-color: rgba(0, 51, 102, 0.9);
      }
      .btn-primary {
         background-color: #0066cc;
         border-color: #0066cc;
      }
      .button-container {
         margin-top: 30px; /* Adjust this value as needed */
      }
   </style>
</head>
<body>

   <!-- Navigation Bar -->
   <nav class="navbar navbar-expand-lg navbar-dark">
      <div class="container-fluid">
         <a class="navbar-brand" href="home.jsp">BharatYatra</a>
         <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
            <span class="navbar-toggler-icon"></span>
         </button>
         <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav ms-auto">
               <li class="nav-item">
                  <a class="nav-link active" aria-current="page" href="home.jsp">Home</a>
               </li>
               <li class="nav-item">
                  <a class="nav-link" href="logout.jsp">Logout</a>
               </li>
            </ul>
         </div>
      </div>
   </nav>

   <!-- Main Content -->
```

```html
        <div class="overlay">
            <div class="container my-5">
                <div class="row justify-content-center">
                    <div class="col-md-8">
                        <div class="card">
                            <div class="card-body">
                                <h2 class="text-center">Welcome to BharatYatra</h2>
                                <p class="text-center">Manage your flights and bookings with ease.</p>
                                <div class="button-container text-center">
                                    <a href="checkFlight.jsp" class="btn btn-primary">Check Flight</a>
                                    <a href="bookFlight.jsp" class="btn btn-primary">Book Flight</a>
                                    <a href="addFlight.jsp" class="btn btn-primary">Add Flight</a>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>

    <!-- Footer -->
    <footer class="text-light text-center py-3">
        <p>&copy; 2024 BharatYatra. All rights reserved.</p>
    </footer>

    <!-- Bootstrap JS -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Homeservlet

```java
import java.io.IOException;
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("/HomeServlet")
public class HomeServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // Check if the user is logged in
```
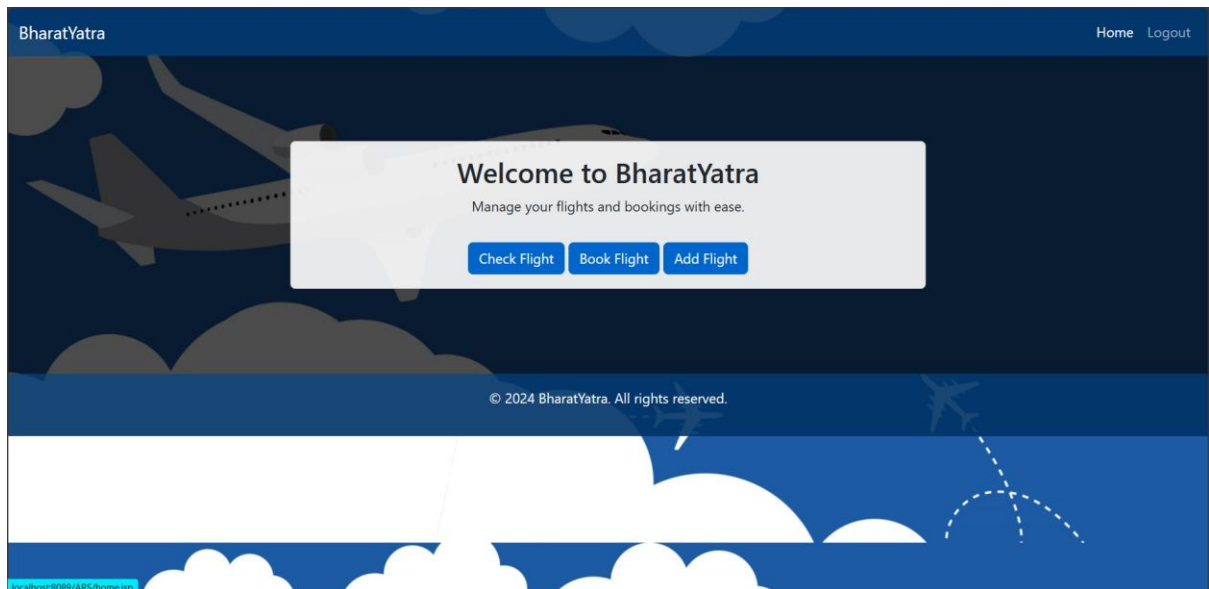
```java
        if (request.getSession().getAttribute("user") == null) {
            // Redirect to login page if not logged in
            response.sendRedirect("login.html");
            return;
        }

        // Forward to the homepage JSP
        request.getRequestDispatcher("home.jsp").forward(request, response);
    }
}
```


Checkflight.jsp

```jsp
<%@ page import="java.util.List" %>
<%@ page import="javaclass.Flight" %>
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Check Flight - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
```

```
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-primary {
            background-color: #0066cc;
            border-color: #0066cc;
        }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="home.jsp">BharatYatra</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav ms-auto">
                    <li class="nav-item">
                        <a class="nav-link" href="home.jsp">Home</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="logout.jsp">Logout</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>

    <!-- Main Content -->
    <div class="overlay">
        <div class="container my-5">
            <div class="row justify-content-center">
```

```html
<div class="col-md-8">
    <div class="card">
        <div class="card-body">
            <h2 class="text-center">Check Available Flights</h2>
            <!-- Date Selection Form -->
            <form action="CheckFlightServlet" method="post" class="mb-4">
                <div class="mb-3">
                    <label for="flightDate" class="form-label">Select Flight Date</label>
                    <input type="date" class="form-control" id="flightDate"
name="flightDate" required>
                </div>
                <button type="submit" class="btn btn-primary w-100">Search
Flights</button>
            </form>

            <!-- Display Available Flights -->
            <h2 class="text-center">Available Flights</h2>
            <table class="table table-striped">
                <thead>
                    <tr>
                        <th>Flight Number</th>
                        <th>Departure</th>
                        <th>Arrival</th>
                        <th>Flight Date</th>
                        <th>Flight Class</th>
                    </tr>
                </thead>
                <tbody>
                    <%
                        List<Flight> flights = (List<Flight>) request.getAttribute("flights");
                        if (flights != null && !flights.isEmpty()) {
                            for (Flight flight : flights) {
                    %>
                    <tr>
                        <td><%= flight.getFlightNumber() %></td>
                        <td><%= flight.getDeparture() %></td>
                        <td><%= flight.getArrival() %></td>
                        <td><%= flight.getFlightDate() %></td>
                        <td><%= flight.getFlightClass() %></td>
                    </tr>
                    <%
                            }
                        } else {
                    %>
                    <tr>
                        <td colspan="5" class="text-center">No flights available for the
selected date.</td>
                    </tr>
```

```html
                    <%
                        }
                    %>
                </tbody>
            </table>
        </div>
      </div>
    </div>
  </div>
</div>

<!-- Footer -->
<footer class="text-light text-center py-3">
    <p>&copy; 2024 BharatYatra. All rights reserved.</p>
</footer>

<!-- Bootstrap JS -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Checkflightservlet

```java
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Date;
import java.util.ArrayList;
import java.util.List;
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 javaclass.Flight;

@WebServlet("/CheckFlightServlet")
public class CheckFlightServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String flightDate = request.getParameter("flightDate");
```

```java
        System.out.println("Selected Date: " + flightDate); // Debugging line

        List<Flight> flights = new ArrayList<>();

        try {
            // Convert the flightDate to java.sql.Date
            java.sql.Date sqlDate = java.sql.Date.valueOf(flightDate);

            // Database connection
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/ARS",
"root", "kshiti");

            String query = "SELECT * FROM Flight_Status WHERE flight_date = ?";
            PreparedStatement stmt = conn.prepareStatement(query);
            stmt.setDate(1, sqlDate);
            ResultSet rs = stmt.executeQuery();

            while (rs.next()) {
                Flight flight = new Flight();
                flight.setFlightNumber(rs.getString("flight_number"));
                flight.setDeparture(rs.getString("departure"));
                flight.setArrival(rs.getString("arrival"));
                flight.setFlightDate(rs.getDate("flight_date"));
                flight.setFlightClass(rs.getString("flight_class"));
                flights.add(flight);

                // Log retrieved flight details
        System.out.println("Flight retrieved: " + flight.getFlightNumber());

            }

            rs.close();
            stmt.close();
            conn.close();
        } catch (Exception e) {
            e.printStackTrace();
        }

        request.setAttribute("flights", flights);
        request.getRequestDispatcher("checkFlight.jsp").forward(request, response);
    }
}
```
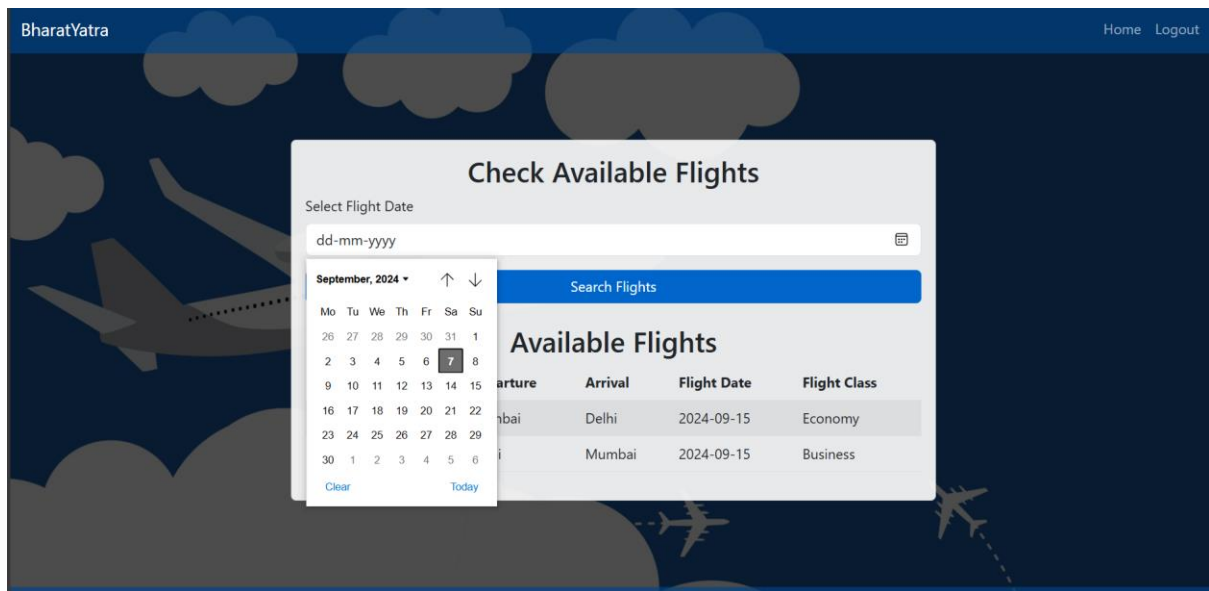
Bookflight.jsp

```
<%--
    Document    : bookflight
    Created on : 04-Sept-2024, 3:55:57 pm
    Author      : Kshiti
--%>

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Book Flight - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
```

```html
    .navbar {
      background-color: rgba(0, 51, 102, 0.9);
    }
    footer {
      background-color: rgba(0, 51, 102, 0.9);
    }
    .btn-primary {
      background-color: #0066cc;
      border-color: #0066cc;
    }
    .container {
      margin-top: 50px;
    }
  </style>
</head>
<body>

  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-lg navbar-dark">
    <div class="container-fluid">
      <a class="navbar-brand" href="home.jsp">BharatYatra</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item">
            <a class="nav-link" href="home.jsp">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="logout.jsp">Logout</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>

  <!-- Main Content -->
  <div class="overlay">
    <div class="container my-5">
      <div class="row justify-content-center">
        <div class="col-md-8">
          <div class="card">
            <div class="card-body">
              <h2 class="text-center">Book a Flight</h2>
```

```jsp
<%-- Display the success or error message --%>
<%
    String message = (String) request.getAttribute("message");
    if (message != null) {
%>
    <div class="alert alert-info alert-dismissible fade show" role="alert">
        <%= message %>
        <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
    </div>
<% } %>

<form action="BookFlightServlet" method="post">
    <div class="mb-3">
        <label for="flightNumber" class="form-label">Flight Number:</label>
        <select name="flightNumber" id="flightNumber" class="form-select" required>
            <!-- Can use JSTL Api library to dynamically update the drop dowm list -->
            <option value="AI202">AI202 - Mumbai to Delhi</option>
            <option value="AI303">AI303 - Delhi to Mumbai</option>
            <option value="AI404">AI404 - Mumbai to Bangalore</option>
            <option value="AI4045">AI4045 - Mumbai to Goa</option>
            <option value="AI4068">AI4068 - Mumbai to Srinagar</option>
            <option value="AI4069">AI4069 - Mumbai to Srinagar</option>
            <option value="AI8086">AI8086 - Mumbai to Surat</option>
        </select>
    </div>

    <div class="mb-3">
        <label for="flightDate" class="form-label">Flight Date:</label>
        <input type="date" id="flightDate" name="flightDate" class="form-control" required>
    </div>

    <div class="mb-3">
        <label for="passengerName" class="form-label">Passenger Name:</label>
        <input type="text" id="passengerName" name="passengerName" class="form-control" placeholder="Enter your name" required>
    </div>

    <div class="mb-3">
        <label for="passengerAge" class="form-label">Passenger Age:</label>
        <input type="text" id="passengerAge" name="passengerAge" class="form-control" placeholder="Enter your age" required>
    </div>
```

```html
                <div class="mb-3">
                    <label for="flightClass" class="form-label">Flight Class:</label>
                    <select name="flightClass" id="flightClass" class="form-select" required>
                        <option value="Economy">Economy</option>
                        <option value="Business">Business</option>
                    </select>
                </div>

                    <button type="submit" class="btn btn-primary">Book Flight</button>
                </form>
            </div>
          </div>
        </div>
      </div>
    </div>

    <!-- Footer -->
    <footer class="text-light text-center py-3">
        <p>&copy; 2024 BharatYatra. All rights reserved.</p>
    </footer>

    <!-- Bootstrap JS -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Bookflightservlet

```java
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
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("/BookFlightServlet")
public class BookFlightServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String flightNumber = request.getParameter("flightNumber");
```

```java
    String flightDate = request.getParameter("flightDate");
    String passengerName = request.getParameter("passengerName");
    String passengerAge = request.getParameter("passengerAge");
    String flightClass = request.getParameter("flightClass");

    try {
        // Database connection
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/ARS",
"root", "kshiti");

        // SQL query to insert booking data into the database
        String query = "INSERT INTO Booking (flight_number, flight_date, passenger_name,
passenger_age, flight_class) VALUES (?, ?, ?, ?, ?)";
        PreparedStatement stmt = conn.prepareStatement(query);
        stmt.setString(1, flightNumber);
        stmt.setString(2, flightDate);
        stmt.setString(3, passengerName);
        stmt.setString(4, passengerAge);
        stmt.setString(5, flightClass);

        int rowsInserted = stmt.executeUpdate();

        if (rowsInserted > 0) {
            request.setAttribute("message", "Flight booked successfully!");
        } else {
            request.setAttribute("message", "Booking failed. Please try again.");
        }

        stmt.close();
        conn.close();
    } catch (Exception e) {
        e.printStackTrace();
        request.setAttribute("message", "An error occurred during booking. Please check
your inputs or try again later.");
    }

    request.getRequestDispatcher("bookFlight.jsp").forward(request, response);
    }
}
```

Flight class

```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
```

```java
package javaclass;
/**
 *
 * @author Kshiti
 */
public class Flight {
    private String flightNumber;
    private String departure;
    private String arrival;
    private java.sql.Date flightDate;
    private String flightClass;

    // Getters and Setters
    public String getFlightNumber() { return flightNumber; }
    public void setFlightNumber(String flightNumber) { this.flightNumber = flightNumber; }

    public String getDeparture() { return departure; }
    public void setDeparture(String departure) { this.departure = departure; }

    public String getArrival() { return arrival; }
    public void setArrival(String arrival) { this.arrival = arrival; }

    public java.sql.Date getFlightDate() { return flightDate; }
    public void setFlightDate(java.sql.Date flightDate) { this.flightDate = flightDate; }

    public String getFlightClass() { return flightClass; }
    public void setFlightClass(String flightClass) { this.flightClass = flightClass; }
}
```


Addflightconfirmation

```
<%--
    Document   : addFlightConfirmation
    Created on : 06-Sept-2024, 7:35:40 pm
```

```
      Author      : Kshiti
--%>

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-
8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add Flight Confirmation</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-primary {
            background-color: #0066cc;
            border-color: #0066cc;
        }
        .button-container {
            margin-top: 30px; /* Adjust this value as needed */
        }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
```

```html
    <div class="container-fluid">
        <a class="navbar-brand" href="home.jsp">BharatYatra</a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle
navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav ms-auto">
                <li class="nav-item">
                    <a class="nav-link active" aria-current="page" href="home.jsp">Home</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" href="logout.jsp">Logout</a>
                </li>
            </ul>
        </div>
    </div>
</nav>

<!-- Main Content -->
<div class="overlay">
    <div class="container my-5">
        <div class="row justify-content-center">
            <div class="col-md-8">
                <div class="card">
                    <div class="card-body">
                        <h2 class="text-center">Flight Added Successfully</h2>
                        <p class="text-center">Your flight has been added to the system. Thank
you!</p>
                        <div class="button-container text-center">
                            <a href="addFlight.jsp" class="btn btn-primary">Add Another Flight</a>
                            <a href="home.jsp" class="btn btn-primary">Back to Home</a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>

<!-- Footer -->
<footer class="text-light text-center py-3">
    <p>&copy; 2024 BharatYatra. All rights reserved.</p>
</footer>

<!-- Bootstrap JS -->
```

```
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Addflightform

```
<%--
    Document   : addFlightForm
    Created on : 06-Sept-2024, 8:01:22 pm
    Author     : Kshiti
--%>

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-
8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add Flight - BharatYatra</title>
    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
    <!-- Custom CSS -->
    <style>
        body {
            background-image: url('images/airplane.jpg');
            background-size: cover;
            background-position: center;
            color: white;
        }
        .overlay {
            background-color: rgba(0, 0, 0, 0.7);
            padding: 50px 0;
        }
        .card {
            background-color: rgba(255, 255, 255, 0.9);
        }
        .navbar {
            background-color: rgba(0, 51, 102, 0.9);
        }
        footer {
            background-color: rgba(0, 51, 102, 0.9);
        }
        .btn-primary {
            background-color: #0066cc;
            border-color: #0066cc;
```

```html
        }
    </style>
</head>
<body>

    <!-- Navigation Bar -->
    <nav class="navbar navbar-expand-lg navbar-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="home.jsp">BharatYatra</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav ms-auto">
                    <li class="nav-item">
                        <a class="nav-link active" aria-current="page" href="home.jsp">Home</a>
                    </li>
                    <li class="nav-item">
                        <a class="nav-link" href="logout.jsp">Logout</a>
                    </li>
                </ul>
            </div>
        </div>
    </nav>

    <!-- Main Content -->
    <div class="overlay">
        <div class="container my-5">
            <div class="row justify-content-center">
                <div class="col-md-8">
                    <div class="card">
                        <div class="card-body">
                            <h2 class="text-center">Add New Flight</h2>
                            <form action="AddFlightServlet" method="post">
                                <div class="mb-3">
                                    <label for="flightNumber" class="form-label">Flight Number</label>
                                    <input type="text" id="flightNumber" name="flightNumber" class="form-control" required>
                                </div>
                                <div class="mb-3">
                                    <label for="departure" class="form-label">Departure</label>
                                    <input type="text" id="departure" name="departure" class="form-control" required>
                                </div>
                                <div class="mb-3">
                                    <label for="arrival" class="form-label">Arrival</label>
```

```html
                    <input type="text" id="arrival" name="arrival" class="form-control" required>
                </div>
                <div class="mb-3">
                    <label for="flightDate" class="form-label">Flight Date</label>
                    <input type="date" id="flightDate" name="flightDate" class="form-control" required>
                </div>
                <div class="mb-3">
                    <label for="flightClass" class="form-label">Flight Class</label>
                    <select id="flightClass" name="flightClass" class="form-select" required>
                        <option value="Economy">Economy</option>
                        <option value="Business">Business</option>
                        <option value="First">First</option>
                    </select>
                </div>
                <input type="submit" value="Add Flight" class="btn btn-primary">
            </form>
          </div>
        </div>
      </div>
    </div>
  </div>

  <!-- Footer -->
  <footer class="text-light text-center py-3">
    <p>&copy; 2024 BharatYatra. All rights reserved.</p>
  </footer>

  <!-- Bootstrap JS -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```
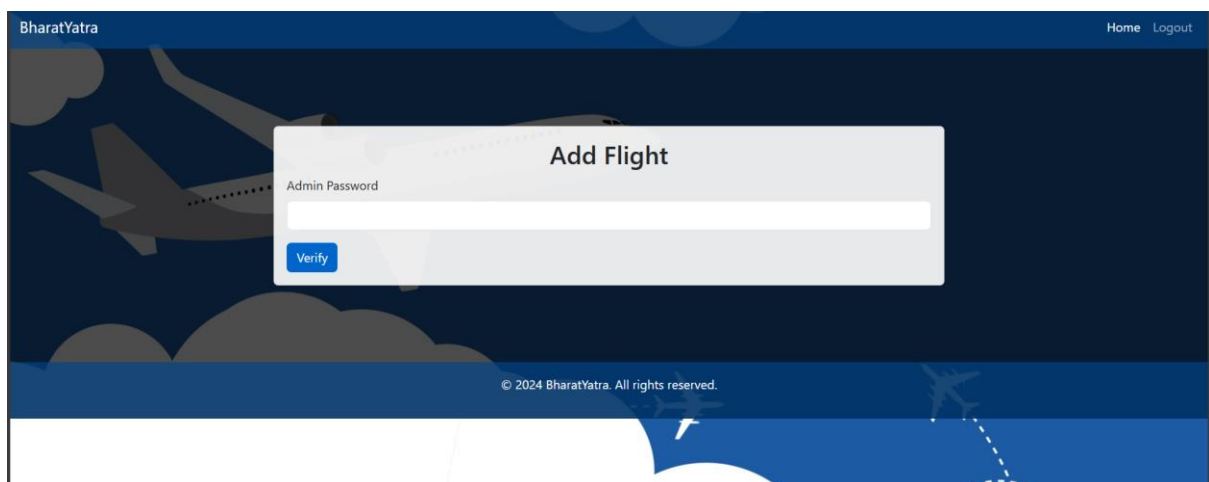
Addflightverificationservlet

```java
import java.io.IOException;
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("/AddFlightVerificationServlet")
```

```java
public class AddFlightVerificationServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    private static final String ADMIN_PASSWORD = "iamadmin"; // Change this to your actual
admin password

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String adminPassword = request.getParameter("adminPassword");

        if (ADMIN_PASSWORD.equals(adminPassword)) {
            // Redirect to the actual Add Flight form
            response.sendRedirect("addFlightForm.jsp");
        } else {
            // Redirect to an error page or show a message
            request.setAttribute("errorMessage", "Invalid password. Access denied.");
            request.getRequestDispatcher("error.jsp").forward(request, response);
        }
    }
}
```


Addflightservlet

```java
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
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("/AddFlightServlet")
public class AddFlightServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```java
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    String flightNumber = request.getParameter("flightNumber");
    String departure = request.getParameter("departure");
    String arrival = request.getParameter("arrival");
    String flightDate = request.getParameter("flightDate");
    String flightClass = request.getParameter("flightClass");

    try {
        // Database connection
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/ARS",
"root", "kshiti");

        // SQL Query to insert new flight details
        String query = "INSERT INTO Flight_Status (flight_number, departure, arrival,
flight_date, flight_class) VALUES (?, ?, ?, ?, ?)";
        PreparedStatement stmt = conn.prepareStatement(query);
        stmt.setString(1, flightNumber);
        stmt.setString(2, departure);
        stmt.setString(3, arrival);
        stmt.setString(4, flightDate);
        stmt.setString(5, flightClass);
        stmt.executeUpdate();

        stmt.close();
        conn.close();

        // Redirect to a confirmation page or back to the add flight page
        response.sendRedirect("addFlightConfirmation.jsp");
    } catch (Exception e) {
        e.printStackTrace();
        response.sendRedirect("error.jsp"); // Redirect to an error page if something goes
wrong
    }
  }
}
```
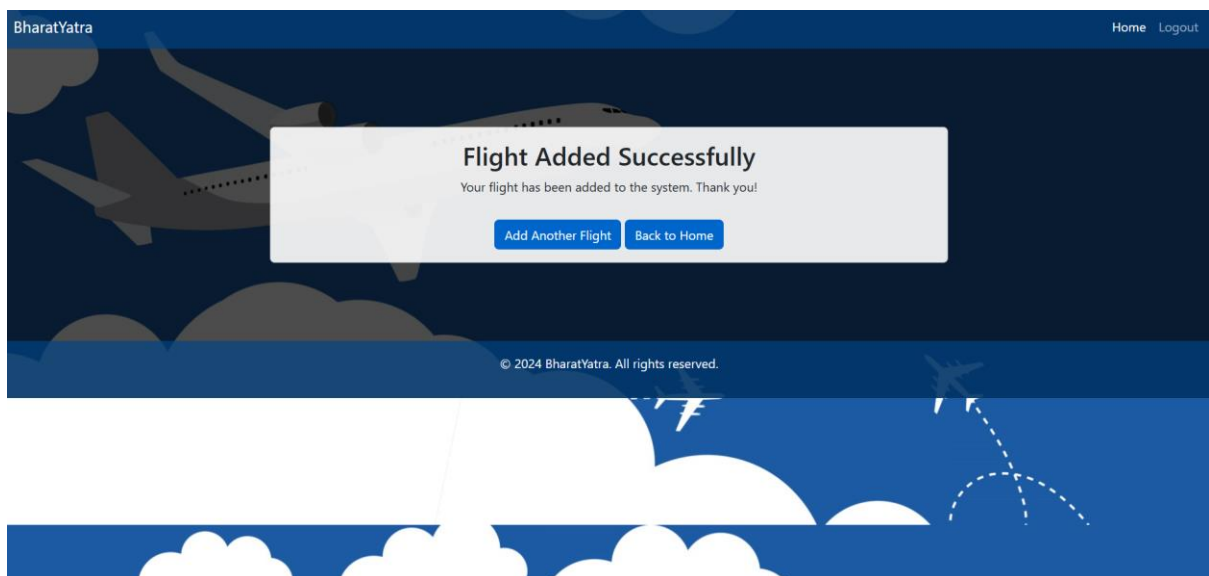
Error.jsp

```
<%--
    Document   : error
    Created on : 06-Sept-2024, 4:15:53 pm
    Author     : Kshiti
--%>

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Error</title>
```

```html
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha3/dist/css/bootstrap.min.css" rel="stylesheet">
</head>
<body>
    <div class="container my-5">
        <div class="alert alert-danger">
            <h4 class="alert-heading">Error!</h4>
            <p><%= request.getAttribute("errorMessage") %></p>
            <hr>
            <a href="home.jsp" class="btn btn-primary">Back to Home</a>
        </div>
    </div>
</body>
</html>
```