flyway.com
Project Source Code

Version History:

Author:	Mayur Bharatkumar Solanki
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Project GITHUB Link:

Repository Name:	SL_FSD_PHASE2_Project
Github Link:	https://github.com/mursky66/SL_FSD_PHASE2_Project

Project Code:

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INDEX

```html
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>

<jsp:include page="headerScript.jsp" />
</head>
<body onload="populatePlaces()">

        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">
                <div class="col-lg-12">
                    <!-- Post content-->
                    <article>
                        <!-- Post header-->
                        <header class="mb-4">
                            <!-- Post title-->
                            <h1 class="fw-bolder mb-1">Book Flight</h1>
                        </header>
                    </article>

                    <form class="mb-4 input-group">

                        <div class="mb-3">
                            <label for="fromPlace" class="form-label">From</label> <select
                                class="form-select" id="fromPlace"
name="fromPlace"
                                aria-label="From">
                            </select>
                        </div>

                        <div class="mb-3">
                            <label for="toPlace" class="form-label">To</label> <select
                                class="form-select" id="toPlace"
name="toPlace" aria-label="To">
                            </select>
                        </div>

                        <div class="mb-2">
                            <label for="departureDate" class="form-label">Departure</label> <input
```

```html
                                                type="text" id="departureDate"
name="departureDate"
                                                class="form-control" placeholder="yyyy-
MM-dd">
                                </div>

                                <div class="mb-2">
                                    <label for="noOfPerson" class="form-
label">Number of
                                                Persons</label> <input type="text"
id="noOfPerson" class="form-control"
                                                placeholder="i.e {1, 2, 3}">
                                </div>

                                <div class="mb-2">
                                        <label class="form-label"> </label>
                                        <button class="btn btn-primary form-control"
id="button-search"
                                                type="button">Search</button>
                                </div>

                        </form>

                </div>
        </div>

        <div id="searchResult">

                <div class="card mb-3">
                        <h5 class="card-header">Air India</h5>
                        <div class="card-body">
                                <h5 class="card-title">Bombay to Delhi</h5>
                                <p class="card-text">Depart on 2021-10-04</p>
                                <p class="card-text">Ticket price: 25$</p>
                                <a href="#" class="btn btn-primary">Book Ticket</a>
                        </div>
                </div>
                <div class="card mb-3">
                        <h5 class="card-header">Indigo</h5>
                        <div class="card-body">
                                <h5 class="card-title">Bombay to Delhi</h5>
                                <p class="card-text">Depart on 2021-10-04</p>
                                <p class="card-text">Ticket price: 68$</p>
                                <a href="#" class="btn btn-primary">Book Ticket</a>
                        </div>
                </div>

        </div>

    </div>

    <script type="text/javascript">
        function populatePlaces() {
                $("#fromPlace").html("");
                $("#toPlace").html("");
```

```
                    $("#fromPlace").append('<option value="NA">Select</option>');
                    $("#toPlace").append('<option value="NA">Select</option>');

                    $.ajax({
                            url : "http://localhost:8080/Flyway/ListPlacesServlet",
                            type : 'GET',
                            success : function(res) {
                                    console.log(res);
                                    if (res) {
                                            $.each(res, function(key, value) {
                                                    $("#fromPlace").append(
                                                                    '<option
value="'+value.placeId+'">'

                                                                                                    +
value.placeName + '</option>');
                                                    $("#toPlace").append(
                                                                    '<option
value="'+value.placeId+'">'

                                                                                                    +
value.placeName + '</option>');
                                            });
                                    }

                            }
                    });
            }
    </script>


    <jsp:include page="footer.jsp" />

</body>
</html>
```

LOGIN

```
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">
                <div class="col-lg-12">
                    <!-- Post content-->
                    <article>
                        <!-- Post header-->
                        <header class="mb-4">
                            <!-- Post title-->
                            <h1 class="fw-bolder mb-1">Administrator
Login</h1>
                        </header>
                    </article>

                    <div class="card w--75">
                        <div class="card-head">
                            <%
                                if (request.getAttribute("MSG") !=
null) {
                            %>
                            <div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                            <%
                                }
                            %>
                        </div>
                        <div class="card-body">
                            <form action="./LoginServlet" method="POST">
                                <div class="mb-3 row">
                                    <label for="email" class="col-
sm-2 col-form-label">Email</label>

                                    <div class="col-sm-10">
                                        <input type="text"
class="form-control" id="email" name="email">
                                    </div>
```

```html
                                                </div>
                                                <div class="mb-3 row">
                                                        <label for="password"
class="col-sm-2 col-form-label">Password</label>
                                                        <div class="col-sm-10">
                                                                <input type="password"
class="form-control" id="password"
                                                                        name="password">
                                                        </div>
                                                </div>

                                                <div class="mb-3 row">
                                                        <label class="col-sm-2 col-form-
label"> </label>
                                                        <div class="col-sm-10">
                                                                <button type="submit"
class="btn btn-primary">Login</button>
                                                        </div>
                                                </div>
                                        </form>
                                </div>
                        </div>
                        <br />

                        </div>
                </div>
        </div>


        <jsp:include page="footer.jsp" />

</body>
</html>
```

ADMIN

```jsp
<!DOCTYPE html>
<%@page import="com.flyway.models.User"%>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>

<jsp:include page="headerScript.jsp" />
</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">
                    <div class="col-lg-4 mb-5">
                            <jsp:include page="sidebar.jsp" />
                    </div>
                    <div class="col-lg-8">
                            <article>
                                    <!-- Post header-->
                                    <header class="mb-4">
                                            <h1 class="fw-bolder mb-1">Welcome to
Administrator panel</h1>
                                    </header>
                            </article>
                    </div>
            </div>
        </div>
        <jsp:include page="footer.jsp" />

</body>
</html>
```

CHANGE PASSWORD

```html
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
              <div class="row">


                      <div class="col-lg-4 mb-5">
                            <jsp:include page="sidebar.jsp" />
                      </div>
                      <div class="col-lg-8">
                            <!-- Post content-->
                            <article>
                                  <!-- Post header-->
                                  <header class="mb-4">
                                        <!-- Post title-->
                                        <h1 class="fw-bolder mb-1">Change
Password</h1>
                                  </header>
                            </article>


                            <div class="card w-75">
                                  <div class="card-head">
                                        <%
                                        if (request.getAttribute("MSG") != null) {

                                              if (request.getAttribute("MSGTYPE") !=
null) {
                                                    final String MSGTYPE = (String)
request.getAttribute("MSGTYPE");
                                                    if (MSGTYPE.equals("ERROR")) {
                                        %><div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                              <%
                                              } else {
```

```jsp
                                                  %><div class="alert alert-success"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                                  <%
                                                  }
                                                  }
                                                  }
                                                  %>
                                      </div>
                                      <div class="card-body">
                                          <form action="./ChangePasswordServlet"
method="POST">
                                                  <div class="mb-3 row">
                                                      <label for="currentPwd"
class="col-sm-2 col-form-label">Current
                                                          Password</label>
                                                      <div class="col-sm-10">
                                                          <input type="password"

                                                              name="currentPwd">
                                                      </div>
                                                  </div>
                                                  <div class="mb-3 row">
                                                      <label for="newPwd" class="col-
sm-2 col-form-label">New
                                                          Password</label>
                                                      <div class="col-sm-10">
                                                          <input type="password"
class="form-control" id="newPwd"

                                                              name="newPwd">
                                                      </div>
                                                  </div>
                                                  <div class="mb-3 row">
                                                      <label for="confirmPwd"
class="col-sm-2 col-form-label">Confirm
                                                          Password</label>
                                                      <div class="col-sm-10">
                                                          <input type="password"
class="form-control" id="confirmPwd"

                                                              name="confirmPwd">
                                                      </div>
                                                  </div>

                                                  <div class="mb-3 row">
                                                      <label class="col-sm-2 col-form-
label"> </label>

                                                      <div class="col-sm-10">
                                                          <button type="submit"
class="btn btn-primary">Change

                                                              Password</button>
                                                      </div>
                                                  </div>
                                          </form>
                                      </div>
                              </div>
                              <br />
```

```
                    </div>

                </div>
            </div>
            <jsp:include page="footer.jsp" />
    </body>
</html>
```

ERROR

```
<%@ page isErrorPage="true"%>

<h3>Sorry an exception occured!</h3>

Exception is:
<%=exception%>
```

SIDEBAR

```
<ul class="nav flex-column">
        <li class="nav-item"><a class="nav-link active" href="./PlaceServlet">Add
Place</a></li>
        <li class="nav-item"><a class="nav-link" href="./AirlineServlet">Add
Airline</a></li>
        <li class="nav-item"><a class="nav-link" href="./FlightServlet">Add
Flight</a></li>
</ul>
```

HEADER

```jsp
<%@page import="com.flyway.models.User"%>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <div class="container">
        <a class="navbar-brand" href="./HomeServlet"> <i
            class="fa-solid fa-plane-arrival"></i>    Flyway
        </a>
        <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
            data-bs-target="#navbarSupportedContent"
            aria-controls="navbarSupportedContent" aria-expanded="false"
            aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
            <ul class="navbar-nav ms-auto mb-2 mb-lg-0">
                <li class="nav-item"><a class="nav-link"
href="./HomeServlet">Book
                        Flight</a></li>

                <li class="nav-item"><a class="nav-link"
href="./UserServlet">Register</a></li>

                <%
                    if (session.getAttribute("USER") != null) {
                        User user = (User)
session.getAttribute("USER");
                        String displayName = user.getFirstName() + "
" + user.getLastName();
                %>

                <li class="nav-item dropdown"><a
                    class="nav-link dropdown-toggle" href="#"
id="navbarDropdown"
                    role="button" data-bs-toggle="dropdown" aria-
expanded="false">
                        <%=displayName%>
                </a>
                    <ul class="dropdown-menu" aria-
labelledby="navbarDropdown">
                        <li><a class="dropdown-item"
href="./AdminServlet">Admin panel</a></li>
                        <li><a class="dropdown-item"
href="./ChangePasswordServlet">Change Password</a></li>
                        <li><a class="dropdown-item"
href="./LogoutServlet">Logout</a></li>
                    </ul></li>
                <%
                    } else {
                %>
                <li class="nav-item"><a class="nav-link"
href="./LoginServlet">Login</a></li>
                <%
                    }
```

```
                                    %>


                        </ul>
                </div>
            </div>
    </nav>
```

FOOTER

```html
<!-- Footer-->
<footer class="py-5 bg-dark"
        style="position: fixed; bottom: 0; width: 100%;">
        <div class="container">
                <p class="m-0 text-center text-white">Copyright &copy; Flyway 2021</p>
        </div>
</footer>
<!-- Bootstrap core JS-->
<script src="./dist/js/bootstrap.bundle.min.js"></script>
<!-- Core theme JS-->
<script src="./dist/js/scripts.js"></script>

<script src="./dist/js/jquery-1.12.4.js"></script>
<script src="./dist/js/jquery-ui.js"></script>

<script type="text/javascript">
        $(function() {
                $("#departureDate").datepicker({
                        dateFormat : "yy-mm-dd",
                        showAnim : "fold",
                        changeMonth : true,
                        changeYear : true,
                });
        });
</script>
```

NOT FOUND

```html
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>PAGE NOT FOUND
</body>
</html>
```

PAYMENT

```html
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">



                    <div class="col-lg-12">
                        <!-- Post content-->
                        <article>
                                <!-- Post header-->
                                <header class="mb-4">
                                        <!-- Post title-->
                                        <h1 class="fw-bolder mb-1">Payment
Details<h1>

                                </header>
                        </article>

                        <div class="card w-75">
                                <div class="card-head">
                                        <%
                                        if (request.getAttribute("MSG") != null) {

                                                if (request.getAttribute("MSGTYPE") !=
null) {
                                                        final String MSGTYPE = (String)
request.getAttribute("MSGTYPE");
                                                        if (MSGTYPE.equals("ERROR")) {
                                        %><div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                                        <%
                                                        } else {
                                        %><div class="alert alert-success"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                                        <%
```

```jsp
						}
					}
				}
			%>
					</div>
					<div class="card-body">
						<form action="./ConformationServlet"
method="GET">
							<div class="mb-3 row">
								<label for="airlineName"
class="col-sm-2 col-form-label">Airline

										Name</label>
								<div class="col-sm-10">
									<input type="text"

										class="form-control" id="airlineName"

											name="airlineName">
								</div>
							</div>
							<div class="mb-3 row">
								<label for="airlineCode"
class="col-sm-2 col-form-label">Airline

										Code</label>
								<div class="col-sm-10">
									<input type="text"

										class="form-control" id="airlineCode"

											name="airlineCode">
								</div>
							</div>

							<div class="mb-3 row">
								<label class="col-sm-2 col-form-
label"> </label>

								<div class="col-sm-10">
									<button type="submit"

									class="btn btn-primary">Make Payment</button>
								</div>
							</div>
						</form>
					</div>
				</div>
				<br />
			</div>

		</div>
	</div>
	<jsp:include page="footer.jsp" />
</body>
</html>
```

USER-RIGISTER

```html
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">
                <div class="col-lg-12">
                    <!-- Post content-->
                    <article>
                        <!-- Post header-->
                        <header class="mb-4">
                            <!-- Post title-->
                            <h1 class="fw-bolder mb-1">User
Registration</h1>
                        </header>
                    </article>

                    <div class="card w-75">
                    <div class="card-head">
                        <%if (request.getAttribute("MSG") != null) {

                            if(request.getAttribute("MSGTYPE") != null){
                                final String MSGTYPE =
(String)request.getAttribute("MSGTYPE");
                                if(MSGTYPE.equals("ERROR")){
                                    %><div class="alert alert-
danger" role="alert"><%=request.getAttribute("MSG").toString()%></div><%

                                }else{
                                    %><div class="alert alert-
success" role="alert"><%=request.getAttribute("MSG").toString()%></div><%

                                }
                            }
                        }
                        %>
                    </div>
```

```html
<div class="card-body">
    <form action="./UserServlet" method="POST">
        <div class="mb-3 row">
            <label for="firstName"
class="col-sm-2 col-form-label">First Name</label>
            <div class="col-sm-10">
                <input type="text"
class="form-control" id="firstName" name="firstName">
            </div>
        </div>
        <div class="mb-3 row">
            <label for="lastName"
class="col-sm-2 col-form-label">Last Name</label>
            <div class="col-sm-10">
                <input type="text"
class="form-control" id="lastName" name="lastName">
            </div>
        </div>
        <div class="mb-3 row">
            <label for="email" class="col-
sm-2 col-form-label">Email</label>
            <div class="col-sm-10">
                <input type="text"
class="form-control" id="email" name="email">
            </div>
        </div>
        <div class="mb-3 row">
            <label for="password"
class="col-sm-2 col-form-label">Password</label>
            <div class="col-sm-10">
                <input type="password"
class="form-control" id="password" name="password">
            </div>
        </div>
        <div class="mb-3 row">
            <label for="age" class="col-sm-2
col-form-label">Your Age</label>
            <div class="col-sm-10">
                <input type="text"
class="form-control" id="age" name="age">
            </div>
        </div>

        <div class="mb-3 row">
            <label class="col-sm-2 col-form-
label"> </label>
            <div class="col-sm-10">
                <button type="submit"
class="btn btn-primary">Register</button>
            </div>
        </div>
    </form>
</div>
</div>
<br />
```

```
                </div>
            </div>
        </div>
        <jsp:include page="footer.jsp" />
</body>
</html>
```

HEADER-SCRIPT

```
<!-- Favicon-->
<link rel="icon" type="image/x-icon" href="./dist/assets/favicon.ico" />

<!-- Core theme CSS (includes Bootstrap)-->
<link href="./dist/css/styles.css" rel="stylesheet" />
<link href="./dist/css/jquery-ui.css" rel="stylesheet" />
<link rel="stylesheet" href="./dist/fa/css/all.min.css">
```

ACCESSDENIED

```
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
            <div class="row">

                    <div class="col-lg-12 mb-5">
                        <h1 class="fw-bolder mb-1">Access denied:</h1>
                        <p>You don't have permission to access this resource</p>
                    </div>
            </div>
        </div>
        <jsp:include page="footer.jsp" />
</body>
</html>
```

PLACE

```
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
      <!-- Responsive navbar-->
      <jsp:include page="header.jsp" />
      <!-- Page content-->
      <div class="container mt-5">
            <div class="row">


                  <div class="col-lg-4 mb-5">
                        <jsp:include page="sidebar.jsp" />
                  </div>
                  <div class="col-lg-8">
                        <article>
                              <header class="mb-4">
                                    <h1 class="fw-bolder mb-1">Add Place</h1>
                              </header>
                        </article>


                        <div class="card w--75">
                              <div class="card-head">
                                    <%
                                          if (request.getAttribute("MSG") !=
null) {

                                                if
(request.getAttribute("MSGTYPE") != null) {
                                                      final String MSGTYPE =
(String) request.getAttribute("MSGTYPE");
                                                      if
(MSGTYPE.equals("ERROR")) {
                                    %><div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                    <%
                                                } else {
```

```jsp
                                             %><div class="alert alert-success"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                             <%
                                                     }
                                                             }
                                                     }
                                             %>
                                     </div>
                                     <div class="card-body">
                                             <form action="./PlaceServlet" method="POST">
                                                     <div class="mb-3 row">
                                                             <label for="placeName"
class="col-sm-2 col-form-label">Name</label>

                                                             <div class="col-sm-10">
                                                                     <input type="text"
class="form-control" id="placeName"

                                                                             name="placeName">
                                                     </div>
                                             </div>
                                             <div class="mb-3 row">
                                                     <label for="placeCode"
class="col-sm-2 col-form-label">Place

                                                                     Code</label>
                                                     <div class="col-sm-10">
                                                             <input type="text"
class="form-control" id="placeCode"

                                                                     name="placeCode">
                                                     </div>
                                             </div>
                                             <div class="mb-3 row">
                                                     <label for="latitude"
class="col-sm-2 col-form-label">Latitude</label>

                                                             <div class="col-sm-10">
                                                                     <input type="text"
class="form-control" id="latitude"

                                                                             name="latitude">
                                                     </div>
                                             </div>
                                             <div class="mb-3 row">
                                                     <label for="Longitude"
class="col-sm-2 col-form-label">Longitude</label>

                                                             <div class="col-sm-10">
                                                                     <input type="text"
class="form-control" id="longitude"

                                                                             name="longitude">
                                                     </div>
                                             </div>

                                             <div class="mb-3 row">
                                                     <label class="col-sm-2 col-form-
label"> </label>

                                                             <div class="col-sm-10">
                                                                     <button type="submit"
class="btn btn-primary">Add

                                                                             Place</button>
```

```
                                        </div>
                                    </div>
                                </form>
                            </div>
                        </div>
                        <br />
                    </div>

                </div>
            </div>
        <jsp:include page="footer.jsp" />
</body>
</html>
```

FLIGHT

```
<!DOCTYPE html>
<%@page import="com.flyway.models.Place"%>
<%@page import="com.flyway.models.Airline"%>
<%@page import="java.util.List"%>
<%@page import="com.flyway.constants.FlywayConstant"%>
<%@page import="java.util.Objects"%>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
              <div class="row">

                        <div class="col-lg-4 mb-5">
                            <jsp:include page="sidebar.jsp" />
                        </div>
                        <div class="col-lg-8">
                              <!-- Post content-->
                              <article>
                                    <!-- Post header-->
                                    <header class="mb-4">
                                          <!-- Post title-->
```

```jsp
                                <h1 class="fw-bolder mb-1">Add Flight</h1>
                            </header>
                        </article>


                    <div class="card w--75">
                        <div class="card-head">
                            <%
                            if (request.getAttribute("MSG") != null) {

                                if (request.getAttribute("MSGTYPE") !=
null) {
                                    final String MSGTYPE = (String)
request.getAttribute("MSGTYPE");

                                    if (MSGTYPE.equals("ERROR")) {
                            %><div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                    <%
                                    } else {
                            %><div class="alert alert-success"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                    <%
                                    }
                                }
                            }
                            %>
                        </div>
                        <div class="card-body">
                            <form action="./FlightServlet" method="POST">

                                <div class="mb-3">
                                    <label for="airlineId"
class="form-label">Airline Name</label> <select
                                        class="form-select"
id="airlineId" name="airlineId"

                                        aria-label="airlineId">
                                        <%
                                        if
(Objects.nonNull(request.getAttribute(FlywayConstant.AIRLINES))) {
                                            final List<Airline>
airlines = (List<Airline>) request

        .getAttribute(FlywayConstant.AIRLINES);
                                            for (Airline
airline : airlines) {
                                        %><option
value="<%=airline.getAirlineId()%>"><%=airline.getAirlineName()%></option>
                                        <%
                                        }
                                        }
                                        %>
                                    </select>
                                </div>

                                <div class="mb-3 row">
```

```jsp
            <label for="flightCode"
class="col-sm-2 col-form-label">Flight
                Code</label>
        <div class="col-sm-10">
            <input type="text"
                name="flightCode">
class="form-control" id="flightCode"
        </div>
    </div>

    <div class="mb-3">
        <label for="fromPlace"
class="form-label">From</label> <select
            class="form-select"
id="fromPlaceId" name="fromPlaceId"
            aria-label="From">
            <option
value="NA">Select</option>
            <%
            if
(Objects.nonNull(request.getAttribute(FlywayConstant.PLACES))) {
                final List<Place>
places = (List<Place>) request
                .getAttribute(FlywayConstant.PLACES);
                for (Place place :
places) {
            %><option
value="<%=place.getPlaceId()%>">
        <%=place.getPlaceName()%>
                </option>
                <%
                }
                }
                %>
            </select>
    </div>

    <div class="mb-3">
        <label for="toPlace"
class="form-label">To</label> <select
            class="form-select"
id="toPlaceId" name="toPlaceId"
            aria-label="To">
            <option
value="NA">Select</option>
            <%
            if
(Objects.nonNull(request.getAttribute(FlywayConstant.PLACES))) {
                final List<Place>
places = (List<Place>) request
                .getAttribute(FlywayConstant.PLACES);
```

```jsp
                                                                    for (Place place :
places) {
                                        %><option
value="<%=place.getPlaceId()%>">
        <%=place.getPlaceName()%>
                                        </option>
                                        <%
                                        }
                                        }
                                        %>
                                    </select>
                            </div>

                            <div class="mb-3 row">
                                    <label for="passengerCapacity"
                                            Capacity</label>
                                    <div class="col-sm-10">
                                            <input type="text"
class="col-sm-2 col-form-label">Passenger

class="form-control" id="passengerCapacity"
                                                    placeholder="i.e
    name="passengerCapacity"
                                    </div>
{5, 10, 50, 100, 200}">
                            </div>

                            <div class="mb-2">
                                    <label for="departureDate"

                                    <input type="text"
class="form-label">Departure</label>
                                            class="form-control"
id="departureDate" name="departureDate"
                                    </div>
placeholder="yyyy-MM-dd">

                            <div class="mb-3 row">
                                    <label class="col-sm-2 col-form-

label"> </label>
                                    <div class="col-sm-10">
                                            <button type="submit"
class="btn btn-primary">Add
                                                    Flight</button>
                                    </div>
                            </div>
                    </form>
                </div>
            </div>
            <br />
        </div>

    </div>
</div>
```

```
        <jsp:include page="footer.jsp" />
</body>
</html>
```

AIRLINE

```html
<!DOCTYPE html>
<html lang="en">
<head>

<meta charset="utf-8" />
<meta name="viewport"
      content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="Flyway Ticketbooking (Admin panel)" />
<meta name="author" content="Mayur Solanki" />

<title>Flyway-TicketBooking</title>
<jsp:include page="headerScript.jsp" />

</head>
<body>
        <!-- Responsive navbar-->
        <jsp:include page="header.jsp" />
        <!-- Page content-->
        <div class="container mt-5">
              <div class="row">


                    <div class="col-lg-4 mb-5">
                          <jsp:include page="sidebar.jsp" />
                    </div>
                    <div class="col-lg-8">
                          <!-- Post content-->
                          <article>
                                <!-- Post header-->
                                <header class="mb-4">
                                      <!-- Post title-->
                                      <h1 class="fw-bolder mb-1">Add Airline</h1>
                                </header>
                          </article>

                          <div class="card w-75">
                                <div class="card-head">
                                      <%
                                      if (request.getAttribute("MSG") != null) {

                                            if (request.getAttribute("MSGTYPE") !=
null) {
                                                  final String MSGTYPE = (String)
request.getAttribute("MSGTYPE");
                                                  if (MSGTYPE.equals("ERROR")) {
                                      %><div class="alert alert-danger"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
```

```jsp
                                                        <%
                                                        } else {
                                                        %><div class="alert alert-success"
role="alert"><%=request.getAttribute("MSG").toString()%></div>
                                                        <%
                                                        }
                                                        }
                                                        }
                                                        %>
                                        </div>
                                        <div class="card-body">
                                                <form action="./AirlineServlet"
method="POST">
                                                        <div class="mb-3 row">
                                                                <label for="airlineName"
class="col-sm-2 col-form-label">Airline
                                                                        Name</label>
                                                                <div class="col-sm-10">
                                                                        <input type="text"
class="form-control" id="airlineName"
                                                                                name="airlineName">
                                                                </div>
                                                        </div>
                                                        <div class="mb-3 row">
                                                                <label for="airlineCode"
class="col-sm-2 col-form-label">Airline
                                                                        Code</label>
                                                                <div class="col-sm-10">
                                                                        <input type="text"
class="form-control" id="airlineCode"
                                                                                name="airlineCode">
                                                                </div>
                                                        </div>

                                                        <div class="mb-3 row">
                                                                <label class="col-sm-2 col-form-
label"> </label>

                                                                <div class="col-sm-10">
                                                                        <button type="submit"
class="btn btn-primary">Add

                                                                                Airline</button>
                                                                </div>
                                                        </div>
                                                </form>
                                        </div>
                                </div>
                                <br />
                        </div>

                </div>
        </div>
        <jsp:include page="footer.jsp" />
</body>
</html>
```

LOGIN SERVLET

```java
package com.flyway.web;


import java.io.IOException;

import java.util.Objects;


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 com.flyway.constants.FlywayConstant;

import com.flyway.models.User;

import com.flyway.service.LoginDao;


@WebServlet("/LoginServlet")

public class LoginServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


        final LoginDao loginDao = new LoginDao();


        @Override

        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {
```

```java
            RequestDispatcher rd = request.getRequestDispatcher("/login.jsp");

            rd.forward(request, response);


    }


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


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

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


        User user = loginDao.doLogin(email, password);


        if (Objects.isNull(user)) {

            request.setAttribute("MSG", "Login Falied, Invalid credentials");

            RequestDispatcher rd = request.getRequestDispatcher("/login.jsp");

            rd.forward(request, response);

        } else {

            HttpSession httpSession = request.getSession();

            httpSession.setAttribute(FlywayConstant.USER, user);


            RequestDispatcher rd = request.getRequestDispatcher("/admin.jsp");

            rd.forward(request, response);

        }


    }

}
```

LOGOUT SERVLER

```java
package com.flyway.web;


import java.io.IOException;


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("/LogoutServlet")
public class LogoutServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


        @Override
        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {


                HttpSession httpSession = request.getSession();

                httpSession.invalidate();


                RequestDispatcher rd = request.getRequestDispatcher("/index.jsp");

                rd.forward(request, response);

        }
```

```java
        @Override

        protected void doPost(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {

            doGet(request, response);

        }


}
```

ADMIN SERVLET

```java
package com.flyway.web;


import java.io.IOException;


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;


@WebServlet("/AdminServlet")

public class AdminServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;

        @Override

        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {

            final RequestDispatcher rd = request.getRequestDispatcher("./admin.jsp");

            rd.forward(request, response);

        }


}
```

USER SERVLET

```java
package com.flyway.web;


import java.io.IOException;

import java.util.Objects;


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 com.flyway.models.User;

import com.flyway.service.UserDao;


@WebServlet("/UserServlet")
public class UserServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


        private final UserDao userDao = new UserDao();


        @Override
        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {


            RequestDispatcher rd = request

                            .getRequestDispatcher("/userregister.jsp");

            rd.forward(request, response);

        }
```

```java
@Override
protected void doPost(HttpServletRequest request,

                HttpServletResponse response) throws ServletException, IOException {


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

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

        final String firstName = request.getParameter("firstName");

        final String lastName = request.getParameter("lastName");

        final String age = request.getParameter("age");


        User user = new User();

        user.setEmail(email);

        user.setPassword(password);

        user.setFirstName(firstName);

        user.setLastName(lastName);


        if (Objects.nonNull(age) && !age.isEmpty()) {

                user.setAge(Integer.valueOf(age));

        }

        boolean isSaved = userDao.saveUser(user);


        if (isSaved) {

                request.setAttribute("MSG", "User registered successfully");

                request.setAttribute("MSGTYPE", "SUCCESS");

        } else {

                request.setAttribute("MSG", "User Registration failed");

                request.setAttribute("MSGTYPE", "ERROR");

        }

        RequestDispatcher rd = request

                        .getRequestDispatcher("/userregister.jsp");
```

```
                rd.forward(request, response);

        }

}
```

ConformationServlet

```java
package com.flyway.web;

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("/ConformationServlet")
public class ConformationServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


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


                response.getWriter().append("Booking Successfully!!!");

        }

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


                doGet(request, response);

        }


}
```

LISTPLACES SERVLET

```java
package com.flyway.web;


import java.io.IOException;

import java.io.PrintWriter;

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 com.fasterxml.jackson.databind.ObjectMapper;

import com.flyway.models.Place;

import com.flyway.service.PlaceDao;


@WebServlet("/ListPlacesServlet")
public class ListPlacesServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


        private final PlaceDao placeDao = new PlaceDao();


        @Override
        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {


                final List<Place> places = placeDao.listPlaces();
```

```java
                final ObjectMapper mapper = new ObjectMapper();


                final PrintWriter out = response.getWriter();

                response.setContentType("application/json");

                response.setCharacterEncoding("UTF-8");

                out.print(mapper.writeValueAsString(places));

                out.flush();

        }


}
```

PLACE SERVLET

```java
package com.flyway.web;


import java.io.IOException;

import java.util.Objects;


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 com.flyway.models.Place;

import com.flyway.service.PlaceDao;


@WebServlet("/PlaceServlet")

public class PlaceServlet extends HttpServlet {
```

```java
private static final long serialVersionUID = 1L;

private final PlaceDao placeDao = new PlaceDao();

@Override
protected void doGet(HttpServletRequest request,
                HttpServletResponse response) throws ServletException, IOException {
    RequestDispatcher rd = request.getRequestDispatcher("./place.jsp");
    rd.forward(request, response);
}

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

    final String placeName = request.getParameter("placeName");
    final String placeCode = request.getParameter("placeCode");
    final String latitude = request.getParameter("latitude");
    final String longitude = request.getParameter("longitude");

    Place place = new Place();
    place.setPlaceName(placeName);
    place.setPlaceCode(placeCode);

    if (Objects.nonNull(latitude) && !latitude.isEmpty()) {
            place.setLatitude(Double.valueOf(latitude));
    }
    if (Objects.nonNull(longitude) && !longitude.isEmpty()) {
            place.setLongitude(Double.valueOf(longitude));
    }
```

```java
            boolean isSaved = placeDao.savePlace(place);


            if (isSaved) {

                    request.setAttribute("MSG", "Place added successfully");

                    request.setAttribute("MSGTYPE", "SUCCESS");

            } else {

                    request.setAttribute("MSG", "Place adding failed");

                    request.setAttribute("MSGTYPE", "ERROR");

            }

            RequestDispatcher rd = request.getRequestDispatcher("./place.jsp");

            rd.forward(request, response);

        }


}
```

AIRLINE SERVLET

```java
package com.flyway.web;


import java.io.IOException;


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 com.flyway.models.Airline;

import com.flyway.service.AirlineDao;
```

```java
@WebServlet("/AirlineServlet")

public class AirlineServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


        private final AirlineDao airlineDao = new AirlineDao();


        @Override

        protected void doGet(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {

                RequestDispatcher rd = request.getRequestDispatcher("./airline.jsp");

                rd.forward(request, response);

        }


        @Override

        protected void doPost(HttpServletRequest request,

                        HttpServletResponse response) throws ServletException, IOException {


                final String airlineName = request.getParameter("airlineName");

                final String airlineCode = request.getParameter("airlineCode");


                final Airline airline = new Airline();

                airline.setAirlineName(airlineName);

                airline.setAirlineCode(airlineCode);


                boolean isSaved = airlineDao.saveAirline(airline);


                if (isSaved) {

                        request.setAttribute("MSG", "Airline added successfully");

                        request.setAttribute("MSGTYPE", "SUCCESS");

                } else {
```

```
                    request.setAttribute("MSG", "Airline adding failed");

                    request.setAttribute("MSGTYPE", "ERROR");

            }

            RequestDispatcher rd = request.getRequestDispatcher("/airline.jsp");

            rd.forward(request, response);

        }


}
```

CHANGE PASSWORD SERVLET

package com.flyway.web;

import java.io.IOException;

import java.util.Objects;

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 com.flyway.constants.FlywayConstant;

import com.flyway.models.User;

import com.flyway.service.UserDao;

@WebServlet("/ChangePasswordServlet")

public class ChangePasswordServlet extends HttpServlet {

```java
    private static final long serialVersionUID = 1L;

    private final UserDao userDao = new UserDao();

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

            final RequestDispatcher rd = request.getRequestDispatcher("./changePassword.jsp");
            rd.forward(request, response);
    }

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

            final String currentPwd = request.getParameter("currentPwd");
            final String newPwd = request.getParameter("newPwd");
            final String confirmPwd = request.getParameter("confirmPwd");

            final RequestDispatcher rd = request.getRequestDispatcher("./changePassword.jsp");
            if(Objects.isNull(newPwd) || Objects.isNull(confirmPwd) || Objects.isNull(currentPwd)) {
                    request.setAttribute("MSG", "Password should not be null");
                    request.setAttribute("MSGTYPE", "ERROR");
                    rd.forward(request, response);
                    return;

            }else {
                    if(!newPwd.equals(confirmPwd)) {
                            request.setAttribute("MSG", "New Password and Confirm password not
matched");
```

```java
                    request.setAttribute("MSGTYPE", "ERROR");

                    rd.forward(request, response);

                    return;

            }

        }


        HttpSession session = request.getSession(false);

        if(Objects.nonNull(session)) {

                if(Objects.nonNull(session.getAttribute(FlywayConstant.USER))) {

                        final User user = (User)session.getAttribute(FlywayConstant.USER);

                        boolean hasUpdate = userDao.changePassword(newPwd, user.getUserId());


                        if (hasUpdate) {

                                request.setAttribute("MSG", "Password changed successfully");

                                request.setAttribute("MSGTYPE", "SUCCESS");

                                rd.forward(request, response);

                                return;

                        }

                }

        }


        request.setAttribute("MSG", "Password not changed");

        request.setAttribute("MSGTYPE", "ERROR");

        rd.forward(request, response);

    }

}
```

FLIGHT SERVLET

```java
package com.flyway.web;

import java.io.IOException;

import java.text.SimpleDateFormat;

import java.util.Date;

import java.util.Objects;

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 com.flyway.constants.FlywayConstant;

import com.flyway.models.Flight;

import com.flyway.service.AirlineDao;

import com.flyway.service.FlightDao;

import com.flyway.service.PlaceDao;

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


        private final AirlineDao airlineDao = new AirlineDao();

        private final PlaceDao placeDao = new PlaceDao();

        private final FlightDao flightDao = new FlightDao();

        private final SimpleDateFormat fmt = new SimpleDateFormat(

                        FlywayConstant.DATE_FORMAT);
```

```java
@Override
protected void doGet(HttpServletRequest request,

                HttpServletResponse response) throws ServletException, IOException {


        // set Airlines for drop-down

        request.setAttribute(FlywayConstant.AIRLINES,

                        airlineDao.listAirlines());

        request.setAttribute(FlywayConstant.PLACES, placeDao.listPlaces());


        RequestDispatcher rd = request.getRequestDispatcher("./flight.jsp");

        rd.forward(request, response);

}


@Override
protected void doPost(HttpServletRequest request,

                HttpServletResponse response) throws ServletException, IOException {


        try {

                final String airlineId = request.getParameter("airlineId");

                final String flightCode = request.getParameter("flightCode");

                final String fromPlaceId = request.getParameter("fromPlaceId");

                final String toPlaceId = request.getParameter("toPlaceId");

                final String passengerCapacity = request

                                .getParameter("passengerCapacity");

                final String departureDate = request.getParameter("departureDate");


                final Flight flight = new Flight();

                flight.setFlightCode(flightCode);


                flight.setToPlaceId(null);
```

```java
flight.setPassengerCapacity(null);

flight.setDepartureDate(null);


if (Objects.nonNull(airlineId) && !airlineId.isEmpty()) {

        flight.setAirlineId(Long.valueOf(airlineId));

}

if (Objects.nonNull(fromPlaceId) && !fromPlaceId.isEmpty()) {

        flight.setFromPlaceId(Long.valueOf(fromPlaceId));

}

if (Objects.nonNull(toPlaceId) && !toPlaceId.isEmpty()) {

        flight.setToPlaceId(Long.valueOf(toPlaceId));

}

if (Objects.nonNull(passengerCapacity)

                && !passengerCapacity.isEmpty()) {

        flight.setPassengerCapacity(Integer.valueOf(passengerCapacity));

}


if (Objects.nonNull(departureDate) && !departureDate.isEmpty()) {

        Date date = fmt.parse(departureDate);

        flight.setDepartureDate(

                        new java.sql.Date(date.toInstant().toEpochMilli()));

}


boolean isSaved = flightDao.saveFlight(flight);


if (isSaved) {

        request.setAttribute("MSG", "Place added successfully");

        request.setAttribute("MSGTYPE", "SUCCESS");

} else {

        request.setAttribute("MSG", "Place adding failed");

        request.setAttribute("MSGTYPE", "ERROR");
```

```
                }

                RequestDispatcher rd = request.getRequestDispatcher("./flight.jsp");

                rd.forward(request, response);


        } catch (final Exception ex) {

                System.err.print(ex.getMessage());

        }

    }

}
```

PaymentServlet

```
package com.flyway.web;


import java.io.IOException;


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;


@WebServlet("/PaymentServlet")

public class PaymentServlet extends HttpServlet {

        private static final long serialVersionUID = 1L;


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

                System.out.println("hello");

                final RequestDispatcher rd = request.getRequestDispatcher("./payment.jsp");
```

```
                    rd.forward(request, response);



            }


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



            }
}
```

SearchFlightServlet

```java
package com.flyway.web;


import java.io.IOException;

import java.sql.Date;

import java.util.List;


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 com.flyway.models.Flight;

import com.flyway.service.SearchFlightDao;


@WebServlet("/SearchFlightServlet")
public class SearchFlightServlet extends HttpServlet {

            private static final long serialVersionUID = 1L;
```

```java
        final SearchFlightDao dao = new SearchFlightDao();


        @Override

        protected void doPost(HttpServletRequest request, HttpServletResponse response)

                        throws ServletException, IOException {

                System.out.println("doPost CALLED");


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

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

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




                Date dt = new Date(0L);


                // List<Flight> flights = dao.searchFlight(Long.valueOf(fromPlaceId), Long.valueOf(toPlaceId), dt);

                List<Flight> flights = dao.searchFlight(3L,6L,dt);

                request.setAttribute("FLIGHTS", flights);


                System.out.println("flights" +flights);


                RequestDispatcher rd = request.getRequestDispatcher("./index.jsp");

                rd.forward(request, response);

        }


}
```

HOME SERVLET

```java
package com.flyway.web;


import java.io.IOException;


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;


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


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


                RequestDispatcher rd = request.getRequestDispatcher("/index.jsp");

                rd.forward(request, response);


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

                doGet(request, response);

        }
}
```

COM.FLAYWAY.UTILS

CONNECTION-UTILS.JAVA

```java
package com.flyway.utils;


import java.sql.Connection;

import java.sql.DriverManager;


public class ConnectionUtil {


        protected final Connection getCon() {

                try {

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

                        return
DriverManager.getConnection("jdbc:mysql://localhost:3306/flyway?createDatabaseIfNotExist=true&serverTimezone=UTC", "root", "root");

                } catch (Exception ex) {

                        System.err.println(ex.getMessage());

                        return null;

                }

        }
}
```

FLYWAYFILTER.JAVA

package com.flyway.utils;

import java.io.IOException;

import java.util.ArrayList;

import java.util.List;

import java.util.Objects;

import javax.servlet.DispatcherType;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebFilter;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebFilter(dispatcherTypes = {DispatcherType.REQUEST, DispatcherType.FORWARD,

                    DispatcherType.INCLUDE, DispatcherType.ERROR}, urlPatterns = {"/*"})

public class FlywayFilter implements Filter {

        private static final List<String> PRIVATE_URLS = new ArrayList<>();

        static {

                PRIVATE_URLS.add("/Flyway/AirlineServlet");

                PRIVATE_URLS.add("/Flyway/FlightServlet");

                PRIVATE_URLS.add("/Flyway/PlaceServlet");

                PRIVATE_URLS.add("/Flyway/AdminServlet");

                PRIVATE_URLS.add("/ChangePasswordServlet");

```java
        }

        @Override
        public void doFilter(ServletRequest request, ServletResponse response,
                        FilterChain chain) throws IOException, ServletException {

                final HttpServletRequest httpReq = (HttpServletRequest) request;
                final HttpServletResponse httpRes = (HttpServletResponse) response;

                final String requestURL = httpReq.getRequestURI();

                if (PRIVATE_URLS.contains(requestURL)) {
                        final HttpSession session = httpReq.getSession();
                        if (Objects.isNull(session.getAttribute("USER"))) {
                                httpRes.sendRedirect("./accessdenied.jsp");
                                return;
                        }
                }
                chain.doFilter(httpReq, httpRes);

        }

}
```

AIRLINE-DAO

```java
package com.flyway.service;


import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

import java.util.Objects;


import com.flyway.models.Airline;

import com.flyway.utils.ConnectionUtil;


public class AirlineDao extends ConnectionUtil {


        public boolean saveAirline(final Airline airline) {


                final String sql = "INSERT INTO airlines(airlineName, airlineCode) "

                                + " VALUES(?, ?)";


                try (PreparedStatement stmt = getCon().prepareStatement(sql);) {


                        stmt.setString(1, airline.getAirlineName());

                        stmt.setString(2, airline.getAirlineCode());


                        int insertCnt = stmt.executeUpdate();

                        if (insertCnt > 0) {

                                return true;
```

```java
                    }

            } catch (Exception ex) {

                    System.err.println(ex.getMessage());

            }

            return false;

    }


    public List<Airline> listAirlines() {

            final List<Airline> airlines = new ArrayList<>();

            ResultSet rs = null;


            final String sql = "SELECT airlineId, airlineName, airlineCode "

                            + " FROM airlines " + " WHERE airlineName IS NOT NULL"

                            + " ORDER BY airlineName";


            try (final PreparedStatement stmt = getCon().prepareStatement(sql);) {


                    rs = stmt.executeQuery();


                    while (rs.next()) {

                            Airline airline = new Airline();

                            airline.setAirlineId(rs.getLong("airlineId"));

                            airline.setAirlineName(rs.getString("airlineName"));

                            airline.setAirlineCode(rs.getString("airlineCode"));

                            airlines.add(airline);

                    }


            } catch (Exception ex) {

                    System.err.println(ex.getMessage());
```

```java
            } finally {

                if (Objects.nonNull(rs)) {

                    try {

                        rs.close();

                    } catch (SQLException ex) {

                        System.err.println(ex.getMessage());

                    }

                }

            }

            return airlines;

        }

    }
```

FLIGHT-DAO

```java
package com.flyway.service;


import java.sql.PreparedStatement;


import com.flyway.models.Flight;

import com.flyway.utils.ConnectionUtil;


public class FlightDao extends ConnectionUtil {


        public boolean saveFlight(final Flight flight) {


                final String sql = "INSERT INTO flights (flightCode, airlineId, fromPlaceId, toPlaceId,
passengerCapacity,departureDate) "

                                + " VALUES(?, ?, ?, ?, ?, ?)";


                try (PreparedStatement stmt = getCon().prepareStatement(sql);) {


                        stmt.setString(1, flight.getFlightCode());

                        stmt.setLong(2, flight.getAirlineId());

                        stmt.setLong(3, flight.getFromPlaceId());

                        stmt.setLong(4, flight.getToPlaceId());

                        stmt.setInt(5, flight.getPassengerCapacity());

                        stmt.setDate(6, flight.getDepartureDate());


                        int insertCnt = stmt.executeUpdate();

                        if (insertCnt > 0) {

                                return true;

                        }
```

```java
                } catch (Exception ex) {

                        System.err.println(ex.getMessage());

                }

                return false;

        }


}
```

LOGIN-DAO

```java
package com.flyway.service;


import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;


import com.flyway.models.User;

import com.flyway.utils.ConnectionUtil;


public class LoginDao extends ConnectionUtil {


        public User doLogin(final String email, final String pwd) {

                try {

                        User user = null;


                        final String sql = "SELECT userId, firstName, lastName, email, age " + " FROM users"

                                        + " WHERE email=? AND password=?";
```

```java
                    Connection con = getCon();

                    PreparedStatement stmt = con.prepareStatement(sql);

                    stmt.setString(1, email);

                    stmt.setString(2, pwd);


                    ResultSet rs = stmt.executeQuery();

                    if (rs.next()) {


                            Long dbUserId = rs.getLong("userId");

                            String dbFirstName = rs.getString("firstName");

                            String dbLastName = rs.getString("lastName");

                            String dbEmail = rs.getString("email");

                            int dbAge = rs.getInt("age");


                            user = new User();

                            user.setUserId(dbUserId);

                            user.setEmail(dbEmail);

                            user.setFirstName(dbFirstName);

                            user.setLastName(dbLastName);

                            user.setAge(dbAge);

                    }


                    return user;

            } catch (Exception ex) {

                    System.err.println(ex.getMessage());

                    return null;

            }

        }

    }
```

PLACE-DAO

```java
package com.flyway.service;


import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

import java.util.Objects;


import com.flyway.models.Place;

import com.flyway.utils.ConnectionUtil;


public class PlaceDao extends ConnectionUtil {


        public boolean savePlace(final Place place) {


                final String sql = "INSERT INTO places(placeName, placeCode, latitude, longitude) "

                                + " VALUES(?, ?, ?, ?)";


                try (final PreparedStatement stmt = getCon().prepareStatement(sql);) {


                        stmt.setString(1, place.getPlaceName());

                        stmt.setString(2, place.getPlaceCode());

                        stmt.setDouble(3, place.getLatitude());

                        stmt.setDouble(4, place.getLongitude());


                        int insertCnt = stmt.executeUpdate();

                        if (insertCnt > 0) {

                                return true;
```

```java
                        }

        } catch (Exception ex) {

                System.err.println(ex.getMessage());

        }

        return false;

}


public List<Place> listPlaces() {


        final List<Place> places = new ArrayList<>();

        ResultSet rs = null;


        final String sql = "SELECT placeId, placeName, placeCode "

                        + " FROM places "

                        + " WHERE placeName IS NOT NULL"

                        + " ORDER BY placeName";


        try (final PreparedStatement stmt = getCon().prepareStatement(sql);) {


                rs = stmt.executeQuery();


                while (rs.next()) {

                        Place place = new Place();

                        place.setPlaceId(rs.getLong("placeId"));

                        place.setPlaceName(rs.getString("placeName"));

                        place.setPlaceCode(rs.getString("placeCode"));

                        places.add(place);

                }


        } catch (Exception ex) {
```

```java
                System.err.println(ex.getMessage());


        } finally {

            if (Objects.nonNull(rs)) {

                try {

                    rs.close();

                } catch (SQLException ex) {

                    System.err.println(ex.getMessage());

                }

            }

        }

        return places;

    }

}
```

SearchFlightDao

```java
package com.flyway.service;


import java.sql.Date;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

import java.util.Objects;


import com.flyway.models.Airline;

import com.flyway.models.Flight;

import com.flyway.utils.ConnectionUtil;


public class SearchFlightDao extends ConnectionUtil{

        public List<Flight> searchFlight(Long fromPlaceId, Long toPlaceId, Date date) {

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

                ResultSet rs = null;

                final String sql = "SELECT al.airlineName, f.flightId, f.flightcode, f.airlineid, "

                                + "f.fromPlaceId, f.toPlaceId, f.passengerCapacity, "

                                + "f.departureDate "

                                + " FROM flights f "

                                + " INNER JOIN airlines al on al.airlineId = f.airlineid "

                                + " WHERE f.fromPlaceId = ? AND f.toPlaceId =?";

                                //+ " AND f.departureDate =?";


                try (final PreparedStatement stmt = getCon().prepareStatement(sql);) {


                                stmt.setLong(1, fromPlaceId);
```

```java
                    stmt.setLong(2, toPlaceId);

                    //stmt.setDate(3, date);

                    rs = stmt.executeQuery();

                    while (rs.next()) {

                        Flight flight = new Flight();

                        flight.setAirlineName(rs.getString(1));

                        flight.setFlightId(rs.getLong(2));

                        flight.setFlightCode(rs.getString(3));

                        flight.setAirlineId(rs.getLong(4));

                        //flight.setFromePlaceId(rs.getLong(5));

//

//                      airline.setAirlineName(rs.getString("airlineName"));

//                      airline.setAirlineCode(rs.getString("airlineCode"));

                        flights.add(flight);

                    }

            } catch (Exception ex) {

                    System.err.println(ex.getMessage());

            } finally {

                    if (Objects.nonNull(rs)) {

                        try {

                            rs.close();

                        } catch (SQLException ex) {

                            System.err.println(ex.getMessage());

                        }

                    }

            }

            return flights;

        }

}
```

USER-DAO

```java
package com.flyway.service;


import java.sql.PreparedStatement;


import com.flyway.models.User;
import com.flyway.utils.ConnectionUtil;


public class UserDao extends ConnectionUtil {


    public boolean saveUser(final User user) {


        final String sql = "INSERT INTO users(firstName, lastName, password, email, age) "
                + " VALUES(?, ?, ?, ?, ?)";


        try (PreparedStatement stmt = getCon().prepareStatement(sql);) {


            stmt.setString(1, user.getFirstName());
            stmt.setString(2, user.getLastName());
            stmt.setString(3, user.getPassword());
            stmt.setString(4, user.getEmail());
            stmt.setInt(5, user.getAge());


            int insertCnt = stmt.executeUpdate();
            if (insertCnt > 0) {
                return true;
            }


        } catch (Exception ex) {
            System.err.println(ex.getMessage());
```

```java
                }
                return false;
        }


        public boolean changePassword(final String newPassword, final Long userId) {


                final String sql = "UPDATE users SET password = ? WHERE userId = ?";


                try (PreparedStatement stmt = getCon().prepareStatement(sql);) {


                        stmt.setString(1, newPassword);
                        stmt.setLong(2, userId);


                        int updateCnt = stmt.executeUpdate();
                        if (updateCnt > 0) {
                                return true;
                        }


                } catch (Exception ex) {
                        System.err.println(ex.getMessage());
                }
                return false;
        }
}
```

AIRLINE.JAVA

```java
package com.flyway.models;

public class Airline {

    private Long airlineId;
    private String airlineName;
    private String airlineCode;
    public Long getAirlineId() {
        return airlineId;
    }
    public void setAirlineId(Long airlineId) {
        this.airlineId = airlineId;
    }
    public String getAirlineName() {
        return airlineName;
    }
    public void setAirlineName(String airlineName) {
        this.airlineName = airlineName;
    }
    public String getAirlineCode() {
        return airlineCode;
    }
    public void setAirlineCode(String airlineCode) {
        this.airlineCode = airlineCode;
    }

}
```

USER.JAVA

```java
package com.flyway.models;

public class User {

    private Long userId;
    private String firstName;
    private String lastName;
    private String email;
    private String password;
    private Integer age;

    public Long getUserId() {
        return userId;
    }

    public void setUserId(Long userId) {
        this.userId = userId;
    }

    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 getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public Integer getAge() {
        return age;
    }

    public void setAge(Integer age) {
        this.age = age;
    }

    public String getPassword() {
```

```java
            return password;
        }

        public void setPassword(String password) {
            this.password = password;
        }

}
```

PLACE.JAVA

```java
package com.flyway.models;

public class Place {

    private Long placeId;
    private String placeName;
    private String placeCode;
    private Double latitude;
    private Double longitude;

    public Long getPlaceId() {
        return placeId;
    }

    public void setPlaceId(Long placeId) {
        this.placeId = placeId;
    }

    public String getPlaceName() {
        return placeName;
    }

    public void setPlaceName(String placeName) {
        this.placeName = placeName;
    }

    public String getPlaceCode() {
        return placeCode;
    }

    public void setPlaceCode(String placeCode) {
        this.placeCode = placeCode;
    }

    public Double getLatitude() {
        return latitude;
    }

    public void setLatitude(Double latitude) {
        this.latitude = latitude;
    }

    public Double getLongitude() {
        return longitude;
    }

    public void setLongitude(Double longitude) {
        this.longitude = longitude;
    }

}
```

FLIGTH.JAVA

```java
package com.flyway.models;

import java.sql.Date;

public class Flight {

        private Long flightId;
        private String flightCode;

        private Long airlineId;
        private Long fromPlaceId;
        private Long toPlaceId;

        private Integer passengerCapacity;
        private Date departureDate;

        public Long getFlightId() {
                return flightId;
        }
        public void setFlightId(Long flightId) {
                this.flightId = flightId;
        }
        public String getFlightCode() {
                return flightCode;
        }
        public void setFlightCode(String flightCode) {
                this.flightCode = flightCode;
        }
        public Long getAirlineId() {
                return airlineId;
        }
        public void setAirlineId(Long airlineId) {
                this.airlineId = airlineId;
        }
        public Long getFromPlaceId() {
                return fromPlaceId;
        }
        public void setFromPlaceId(Long fromPlaceId) {
                this.fromPlaceId = fromPlaceId;
        }
        public Long getToPlaceId() {
                return toPlaceId;
        }
        public void setToPlaceId(Long toPlaceId) {
                this.toPlaceId = toPlaceId;
        }

        public Integer getPassengerCapacity() {
                return passengerCapacity;
        }
        public void setPassengerCapacity(Integer passengerCapacity) {
                this.passengerCapacity = passengerCapacity;
```

```java
		}
		public Date getDepartureDate() {
			return departureDate;
		}
		public void setDepartureDate(Date departureDate) {
			this.departureDate = departureDate;
		}

}
```
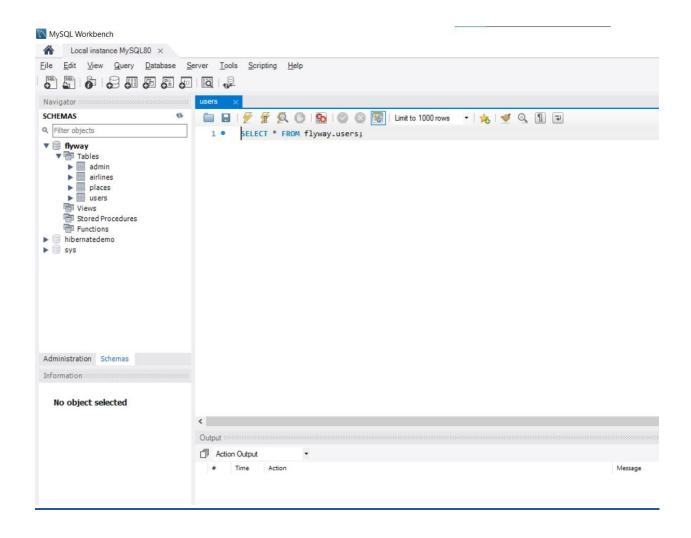
FLAWAY-CONSTATNTS

```java
package com.flyway.models;

import java.sql.Date;

public class Flight {

    private Long flightId;
    private String flightCode;

    private Long airlineId;
    private Long fromPlaceId;
    private Long toPlaceId;

    private Integer passengerCapacity;
    private Date departureDate;

    public Long getFlightId() {
        return flightId;
    }
    public void setFlightId(Long flightId) {
        this.flightId = flightId;
    }
    public String getFlightCode() {
        return flightCode;
    }
    public void setFlightCode(String flightCode) {
        this.flightCode = flightCode;
    }
    public Long getAirlineId() {
        return airlineId;
    }
    public void setAirlineId(Long airlineId) {
        this.airlineId = airlineId;
    }
    public Long getFromPlaceId() {
        return fromPlaceId;
    }
    public void setFromPlaceId(Long fromPlaceId) {
        this.fromPlaceId = fromPlaceId;
    }
    public Long getToPlaceId() {
        return toPlaceId;
    }
    public void setToPlaceId(Long toPlaceId) {
        this.toPlaceId = toPlaceId;
    }

    public Integer getPassengerCapacity() {
        return passengerCapacity;
```

```java
        }
        public void setPassengerCapacity(Integer passengerCapacity) {
                this.passengerCapacity = passengerCapacity;
        }
        public Date getDepartureDate() {
                return departureDate;
        }
        public void setDepartureDate(Date departureDate) {
                this.departureDate = departureDate;
        }

}
```

POM.XML

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
      <modelVersion>4.0.0</modelVersion>
      <groupId>com.learning</groupId>
      <artifactId>Flyway</artifactId>
      <version>0.0.1</version>
      <packaging>war</packaging>

      <properties>
            <java.version>1.8</java.version>
            <maven.compiler.source>${java.version}</maven.compiler.source>
            <maven.compiler.target>${java.version}</maven.compiler.target>
      </properties>

      <dependencies>
            <dependency>
                  <groupId>javax.servlet</groupId>
                  <artifactId>javax.servlet-api</artifactId>
                  <version>4.0.1</version>
                  <scope>provided</scope>
            </dependency>

            <dependency>
                  <groupId>mysql</groupId>
                  <artifactId>mysql-connector-java</artifactId>
                  <version>8.0.26</version>
            </dependency>

            <dependency>
                  <groupId>com.fasterxml.jackson.core</groupId>
                  <artifactId>jackson-databind</artifactId>
                  <version>2.12.5</version>
            </dependency>


      </dependencies>

      <build>
            <plugins>
                  <plugin>
                        <groupId>org.apache.maven.plugins</groupId>
                        <artifactId>maven-war-plugin</artifactId>
                        <version>3.3.2</version>
                        <configuration>
                              <webResources>
                                    <resource>

<directory>src/main/resources</directory>
                                    </resource>
                              </webResources>
```
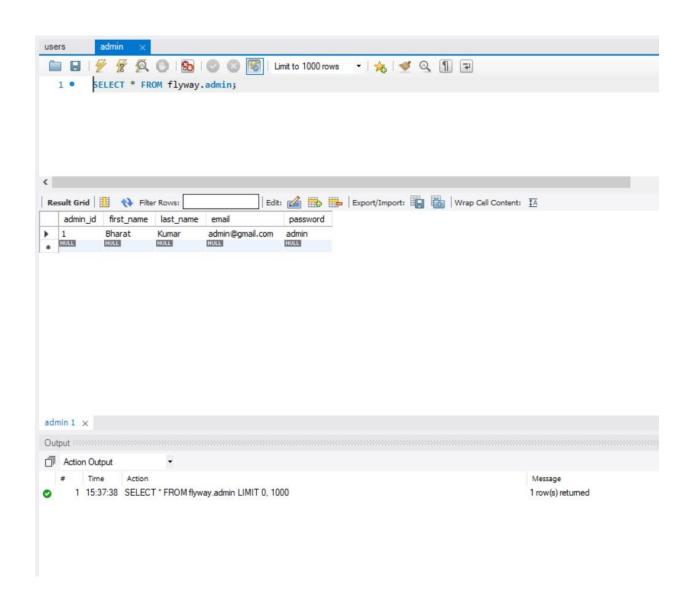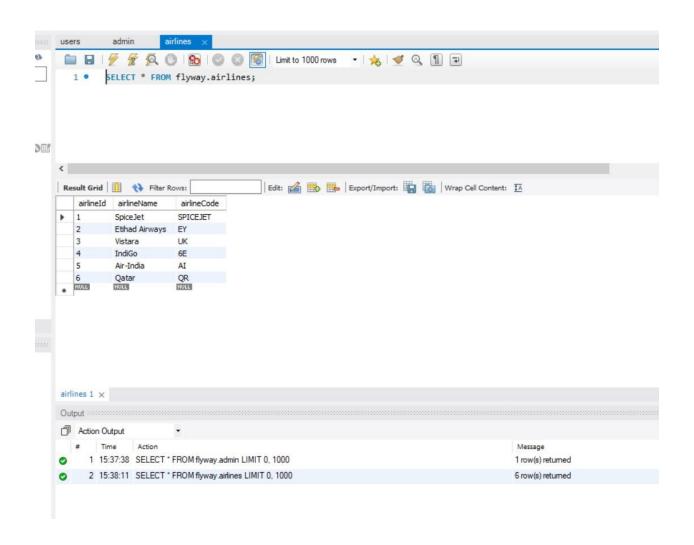
```xml
                                <failOnMissingWebXml>false</failOnMissingWebXml>
                        </configuration>
                    </plugin>
                </plugins>
            </build>

    </project>
```
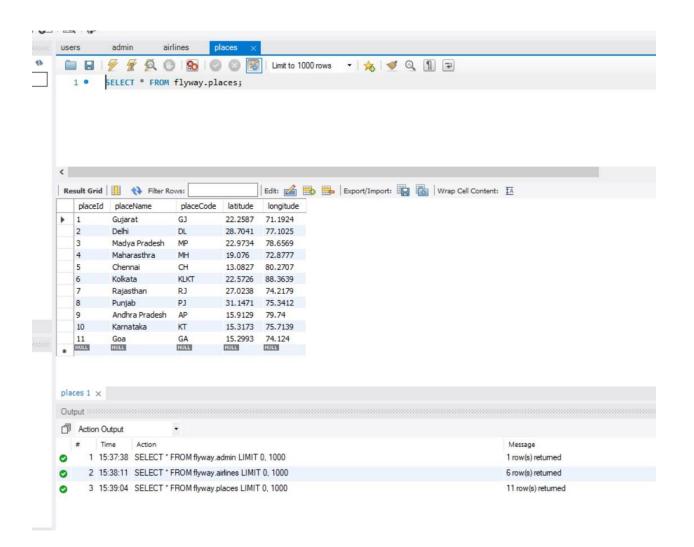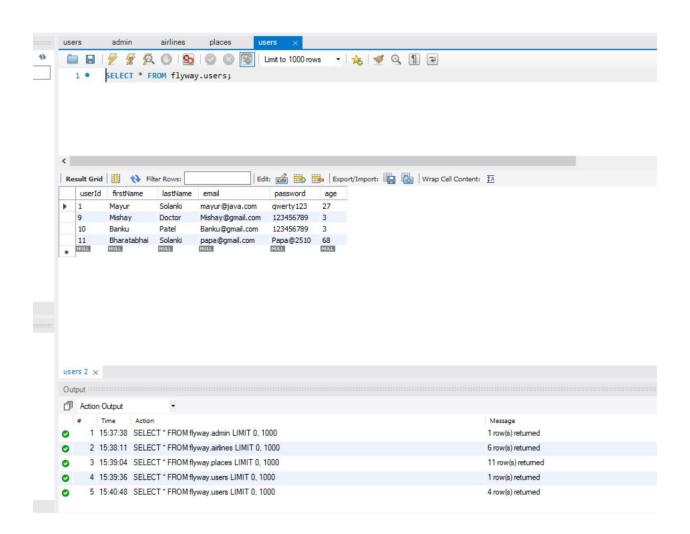
DATABASE

```
1 •    SELECT * FROM flyway.places;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

placeId	placeName	placeCode	latitude	longitude
1	Gujarat	GJ	22.2587	71.1924
2	Delhi	DL	28.7041	77.1025
3	Madya Pradesh	MP	22.9734	78.6569
4	Maharasthra	MH	19.076	72.8777
5	Chennai	CH	13.0827	80.2707
6	Kolkata	KLKT	22.5726	88.3639
7	Rajasthan	RJ	27.0238	74.2179
8	Punjab	PJ	31.1471	75.3412
9	Andhra Pradesh	AP	15.9129	79.74
10	Karnataka	KT	15.3173	75.7139
11	Goa	GA	15.2993	74.124
NULL	NULL	NULL	NULL	NULL

places 1 ×

Output

Action Output

#	Time	Action	Message
✓	1	15:37:38	SELECT * FROM flyway.admin LIMIT 0, 1000	1 row(s) returned
✓	2	15:38:11	SELECT * FROM flyway.airlines LIMIT 0, 1000	6 row(s) returned
✓	3	15:39:04	SELECT * FROM flyway.places LIMIT 0, 1000	11 row(s) returned

WEBSITE LOOK