## **Film Ticket Booking System**

## 1) Features to Implement:

- 1. Add Ticket Allows users to add a new ticket (TicketID, MovieName, ShowTime, SeatNumber, Price).
- 2. View Tickets Displays a list of all tickets.
- 3. Update Ticket Provides an interface to modify ticket details.
- 4. Delete Ticket Allows users to remove a ticket record.

## 2) Project Folder Structure:

Folder	Contents	
src/com.film.dao/	TicketDAO.java, TicketDAOImpl.java	
src/com.film.model/	Ticket.java	
src/com.film.servlet/	AddTicketServlet.java, ViewTicketServlet.java, UpdateTicketServlet.java,	
	DeleteTicketServlet.java	
src/com.film.util/	DBConnection.java	
WebContent/view/	add_ticket.jsp, view_tickets.jsp, update_ticket.jsp, index.jsp	
WebContent/css/	styles.css	

## 3) Database Schema:

Column Name	Data Type	Constraints
ticketid	INT	PRIMARY KEY, AUTO_INCREMENT
moviename	VARCHAR(100)	NOT NULL
showtime	VARCHAR(50)	NOT NULL
seatnumber	VARCHAR(10)	NOT NULL
price	DOUBLE	NOT NULL

#### **CODE:**

```
create table TicketBooking(
ticketId INT PRIMARY KEY AUTO_INCREMENT,
movieName varchar(100) NOT NULL,
showTime VARCHAR(50) NOT NULL,
seatNumber varchar(10) NOT NULL,
price double not null
);
```

#### package com.film.dao;

## TickectDAO.java

```
TicketDAOImpl, jav
package com.film.dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import com.film.model.Ticket;
import com.film.util.DBUtil;
public class TicketDAOImpl implements TicketDAO {
       private static Connection con;
       private static PreparedStatement pst;
       public boolean add(Ticket t) {
              try {
                      con = DBUtil.getConnection();
                      pst = con.prepareStatement("insert into TicketBooking
(movieName, showTime, seatNumber, price) values (?,?,?,?)");
              } catch (SQLException e) {
                      e.printStackTrace();
              try {
                      pst.setString(1, t.getMovieName());
                      pst.setString(2, t.getShowTime());
                      pst.setString(3, t.getSeatNumber());
                      pst.setDouble(4, t.getPrice());
               } catch (SQLException e) {
                      e.printStackTrace();
              try {
                      if(pst.executeUpdate()>0)
                             return true:
              } catch (SQLException e) {
                      e.printStackTrace();
                      return false;
       public boolean update(Ticket t) {
         try {
            con = DBUtil.getConnection();
            pst = con.prepareStatement("UPDATE TicketBooking SET movieName = ?, showTime = ?,
seatNumber = ?, price = ? WHERE ticketId = ?");
            pst.setString(1, t.getMovieName());
            pst.setString(2, t.getShowTime());
            pst.setString(3, t.getSeatNumber());
            pst.setDouble(4, t.getPrice());
            pst.setInt(5, t.getTicketId());
            return pst.executeUpdate()> 0;
          } catch (SQLException e) {
            e.printStackTrace();
          } finally {
            // Close resources
```

```
try {
              if (pst != null) pst.close();
               if (con != null) con.close();
            } catch (SQLException e) {
               e.printStackTrace();
          return false;
       public boolean delete(int ticketId) {
               try {
                      con = DBUtil.getConnection();
                      pst = con.prepareStatement("delete from TicketBooking where ticketId = ?");
               } catch (SQLException e) {
                      e.printStackTrace();
               try {
                      pst.setInt(1, ticketId);
               } catch (SQLException e) {
                      e.printStackTrace();
               try {
                      if(pst.executeUpdate()>0)
                              return true;
               } catch (SQLException e) {
                      e.printStackTrace();
                      return false;
       public List<Ticket> view(){
               List<Ticket> list = new ArrayList<Ticket>();
               try {
                      con = DBUtil.getConnection();
                      pst = con.prepareStatement("select * from TicketBooking");
                      ResultSet rs = pst.executeQuery();
                      while(rs.next()) {
                              Ticket t = new
Ticket(rs.getInt("ticketId"),rs.getString("movieName"),rs.getString("showTime"),rs.getString("seatNumber"
),rs.getFloat("price"));
                              list.add(t);
               } catch (SQLException e) {
                      e.printStackTrace();
               return list;
};
package com.film.model;
Ticket.java
public class Ticket {
       int ticketId;
       String movieName;
```

```
String showTime;
       String seatNumber;
       double price;
       public Ticket(int ticketId, String movieName, String showTime, String seatNumber, double price) {
              super();
              this.ticketId = ticketId;
              this.movieName = movieName;
              this.showTime = showTime;
              this.seatNumber = seatNumber;
              this.price = price;
       public int getTicketId() {
              return ticketId;
       public void setTicketId(int ticketId) {
              this.ticketId = ticketId;
       public String getMovieName() {
              return movieName;
       public void setMovieName(String movieName) {
              this.movieName = movieName;
       public String getShowTime() {
              return showTime;
       public void setShowTime(String showTime) {
              this.showTime = showTime;
       public String getSeatNumber() {
              return seatNumber;
       public void setSeatNumber(String seatNumber) {
              this.seatNumber = seatNumber;
       public double getPrice() {
              return price;
       public void setPrice(double price) {
              this.price = price;
       @Override
       public String toString() {
              return "Ticket [ticketId=" + ticketId + ", movieName=" + movieName + ", showTime=" +
showTime + ", seatNumber="
                            + seatNumber + ", price=" + price + "]";
       }
}
package com.film.servlet;
AddTicketServlet.java
```

import jakarta.servlet.ServletException; import jakarta.servlet.annotation.WebServlet;

```
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import com.film.dao.TicketDAOImpl;
import com.film.model.Ticket;
public class AddTicketServlet extends HttpServlet {
       private static final long serialVersionUID = 1L;
       protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
              int ticketId = Integer.parseInt( request.getParameter("ticketId"));
              String movieName = request.getParameter("movieName");
              String showTime = request.getParameter("showTime");
              String seatNumber= request.getParameter("seatNumber");
              double price = Float.parseFloat(request.getParameter("price"));
              response.setContentType("text/html");
              PrintWriter out = response.getWriter();
              Ticket t = new Ticket(ticketId,movieName,showTime,seatNumber,price);
              TicketDAOImpl dao = new TicketDAOImpl();
              if(dao.add(t)) {
               out.print("<h3>Your Ticket is Booked!</h3>");
              else {
                      out.print("<h3>Your Ticket is not Booked!</h3>");
DeleteTicketServlet.java
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import com.film.dao.TicketDAOImpl;
import com.film.model.Ticket;
public class DeleteTicketServlet extends HttpServlet {
              private static final long serialVersionUID = 1L;
             protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
              int ticketId = Integer.parseInt( request.getParameter("ticketId"));
              response.setContentType("text/html");
              PrintWriter out = response.getWriter();
              TicketDAOImpl dao = new TicketDAOImpl();
              if(dao.delete(ticketId)) {
               out.print("<h3>Your Ticket is deleted!</h3>");
              else {
                      out.print("<h3>Your Ticket is not deleted!</h3>");
}
```

```
UpdateTicketServlet.java
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import com.film.dao.TicketDAOImpl;
import com.film.model.Ticket;
public class UpdateTicketServlet extends HttpServlet {
             private static final long serialVersionUID = 1L;
             protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
              int ticketId = Integer.parseInt( request.getParameter("ticketId"));
              String movieName = request.getParameter("movieName");
              String showTime = request.getParameter("showTime");
              String seatNumber= request.getParameter("seatNumber");
              double price = Float.parseFloat(request.getParameter("price"));
              response.setContentType("text/html");
              PrintWriter out = response.getWriter();
              Ticket t = new Ticket(ticketId,movieName,showTime,seatNumber,price);
              TicketDAOImpl dao = new TicketDAOImpl();
              if(dao.update(t)) {
               out.print("<h3>Your Ticket is Updated!</h3>");
              else {
                     out.print("<h3>Your Ticket is not Updated!</h3>");
ViewTicketServlet.java
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
public class ViewTicketServlet extends HttpServlet {
              private static final long serialVersionUID = 1L;
             protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException }
}
package com.film.util;
DBUtil.java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class DBUtil {
```

private static Connection con;

```
public static Connection getConnection() throws SQLException {
           try {
                 Class.forName("com.mysql.cj.jdbc.Driver");
                 con = DriverManager.getConnection(
"jdbc:mysql://localhost:3306/FlimTicketBooking?useSSL=false&serverTimezone=UTC","root","TToo88*9
9^");
}
           catch(ClassNotFoundException e) {
                 System.out.println(e);
           return con;
}
addTicket.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
 pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
 <link rel="stylesheet" href="../css/styles.css">
</head>
<body>
<form action="../AddTicketServlet" method="post">
 <fieldset>
    <le>egend><h2>Add Ticket</h2></legend>
TicketId:
    <input type="number" name="ticketId" />
  MovieName:
    <input type="text" name="movieName" />
  ShowTime:
    <input type="text" name="showTime" />
  SeatNumber:
    <input type="text" name="seatNumber" />
  Price:
    <input type="number" name="price" />
   <br>>
    <input type="submit" name="option" value="add"/>
 </fieldset>
</form>
</body>
</html>
```

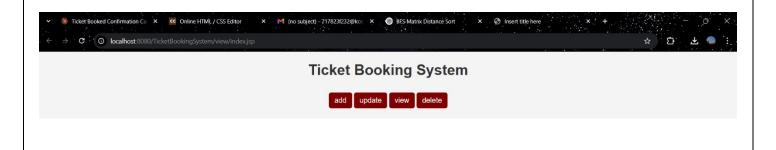
```
deleteTicket.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
  <link rel="stylesheet" href="../css/styles.css">
</head>
<body>
<form action="../DeleteTicketServlet" method="post">
  <fieldset>
     <le>egend><h2>Delete Ticket</h2></legend>
 align='center'</u> border=<u>"0"</u>>
   TicketId:
     <input type="number" name="ticketId" />
    <br>>
     <input type="submit" name="option" value="delete"/>
  </fieldset>
</form>
</body>
</html>
index.jsp
<\(\alpha\) page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
  <link rel="stylesheet" href="../css/styles.css">
</head>
<body>
  <h1>Ticket Booking System</h1>
  <div class="btns">
                  <a href="addTicket.jsp">add</a>
                  <a href="update.jsp">update</a>
                  <a href="viewTicket.jsp">view</a>
                  <a href="deleteTicket.jsp">delete</a>
  </div>
</body>
</html>
update.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
```

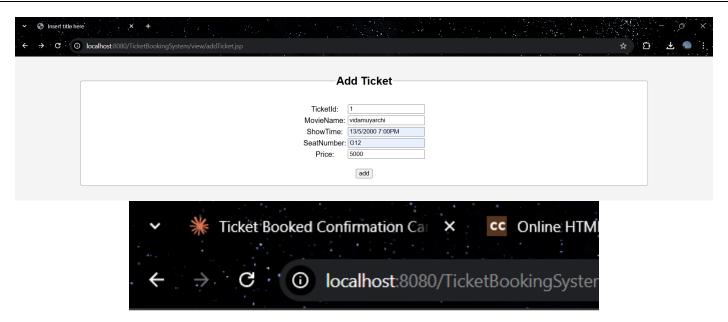
```
<title>Insert title here</title>
 link rel="stylesheet" href="../css/styles.css">
</head>
<body>
           <form action="../UpdateTicketServlet" method="post">
 <fieldset>
    <legend><h2>Update Ticket</h2></legend>
align='center'</u> border=<u>"0"</u>>
  TicketId:
    <input type="number" name="ticketId" />
  >
    MovieName:
    <input type="text" name="movieName" />
  ShowTime:
    <input type="text" name="showTime" />
  >
    SeatNumber:
    <input type="text" name="seatNumber" />
  Price:
    <input type="number" name="price" />
   <br>>
    <input type="submit" name="option" value="update"/>
</form>
</body>
</html>
viewTicket.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.util.List" %>
<%@ page import="com.film.model.Ticket" %>
<%@ page import="com.film.dao.TicketDAOImpl" %>
<!DOCTYPE html>
<html>
<head>
 <meta charset="UTF-8">
 <title>View Tickets</title>
 k rel="stylesheet" href="../css/styles.css">
</head>
<body>
 <div class="view-container">
   <h1>All Tickets</h1>
   <a href="index.jsp" class="back-link">Back to Home</a>
   <thead>
        Ticket ID
```

```
Movie Name
          Show Time
          Seat Number
          Price
        </thead>
      <%
        TicketDAOImpl dao = new TicketDAOImpl();
        List<Ticket> tickets = dao.view();
        if(tickets != null && !tickets.isEmpty()) {
          for(Ticket ticket : tickets) {
        %>
          >
            <%= ticket.getTicketId() %>
            <%= ticket.getMovieName() %>
            <%= ticket.getShowTime() %>
            <%= ticket.getSeatNumber() %>
            $<%= String.format("%.2f", ticket.getPrice()) %>
          <%
        } else {
        %>
          >
            No ticket data available
         <% } %>
      </div>
</body>
</html>
styles.css
/* styles.css */
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  text-align: center;
.view-container {
  width: 80%;
  margin: 20px auto;
  background: white;
  padding: 15px;
  border-radius: 5px;
h1 {
  color: #333;
}
a{
           display: inline-block;
  margin-top: 10px;
  border-radius:5px;
```

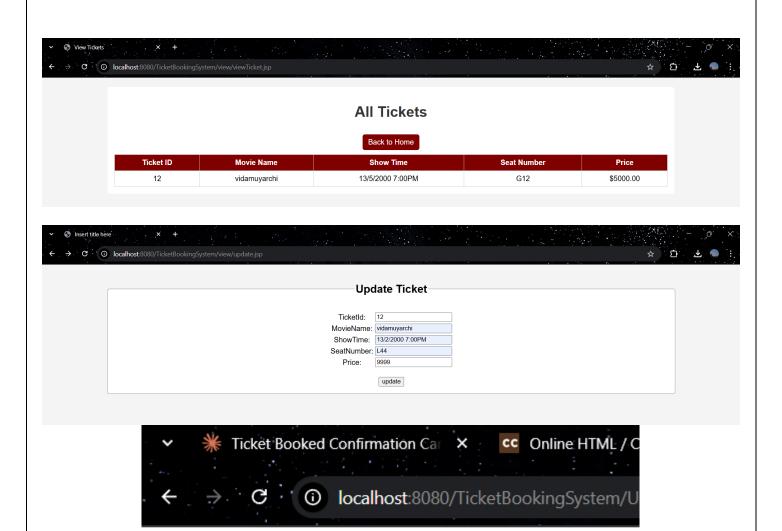
```
padding: 8px 12px;
  background: #800000;
  color: white;
  text-decoration: none;
.ticket-table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 10px;
.ticket-table th,
.ticket-table td {
  border: 1px solid #ccc;
  padding: 8px;
.ticket-table thead {
  background-color: #800000;
  color: white;
.ticket-table tbody tr:nth-child(even) {
  background: #f9f9f9;
.back-link {
  display: inline-block;
  margin-top: 10px;
  padding: 8px 12px;
  background: #800000;
  color: white;
  text-decoration: none;
.back-link:hover {
  background: #0056b3;
fieldset{
width: 80%;
  margin: 20px auto;
  background: white;
  padding: 15px;
  border-radius: 5px;
```

# **Output:**

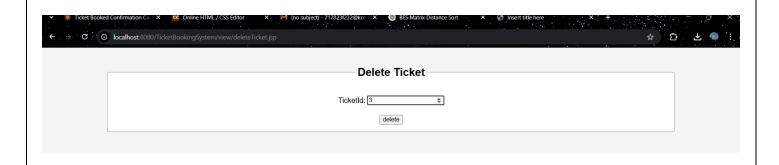




Your Ticket is Booked!



Your Ticket is Updated!





Your Ticket is deleted!