

Kyle Klausen

CSD-430

Module-6

02/07/26

Code:

JSP:

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

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

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

```
<html>
```

```
<head>
```

```
    <title>Module 6 – Movie Database Read</title>
```

```
    <style>
```

```
        body { font-family: Arial, sans-serif; margin: 30px; }
```

```
        table { border-collapse: collapse; width: 80%; margin-top: 20px; }
```

```
        th, td { border: 1px solid #333; padding: 8px; text-align: left; }
```

```
        th { background-color: #eee; }
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
<h1>Module 6 – Movie Database Read</h1>
```

```
<%
```

```
    // Database connection parameters
```

```
    String url = "jdbc:mysql://localhost:3306/CSD430";
```

```
    String dbUser = "student1";
```

```

String dbPass = "pass";

Connection conn = null;

Statement stmt = null;

ResultSet rs = null;

List<Integer> movieIds = new ArrayList<>();

try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    conn = DriverManager.getConnection(url, dbUser, dbPass);

    stmt = conn.createStatement();

    rs = stmt.executeQuery("SELECT movie_id FROM kyle_movies_data ORDER BY
movie_id");

    while(rs.next()) {
        movieIds.add(rs.getInt("movie_id"));
    }
} catch (Exception e) {
    out.println("<p style='color:red;'>Error connecting to DB: " + e.getMessage() + "</p>");
} finally {
    if(rs != null) try { rs.close(); } catch (Exception e){}
    if(stmt != null) try { stmt.close(); } catch (Exception e){}
    if(conn != null) try { conn.close(); } catch (Exception e){}
}

%>

```

```

<form method="get">

    <label for="movieId">Select Movie ID:</label>

    <select name="movieId" id="movieId">

        <option value="">--Select--</option>

        <%

            for(Integer id : movieIds){

                %>

                <option value="<%=id%>" <%=
id.toString().equals(request.getParameter("movieId")) ? "selected" :
"" %>><%=id%></option>

                <%

                    } // end for

                %>

            </select>

            <input type="submit" value="Show Movie">

        </form>

    <%

        String selectedId = request.getParameter("movieId");

        if(selectedId != null && !selectedId.isEmpty()){

            try{

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

                conn = DriverManager.getConnection(url, dbUser, dbPass);

                stmt = conn.createStatement();

                rs = stmt.executeQuery("SELECT * FROM kyle_movies_data WHERE movie_id=" +
selectedId);

```

```
        if(rs.next()){
%>
<h2>Movie Details</h2>
<table>
    <thead>
        <tr>
            <th>Movie ID</th>
            <th>Title</th>
            <th>Genre</th>
            <th>Director</th>
            <th>Release Year</th>
            <th>Rating</th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td><%= rs.getInt("movie_id") %></td>
            <td><%= rs.getString("title") %></td>
            <td><%= rs.getString("genre") %></td>
            <td><%= rs.getString("director") %></td>
            <td><%= rs.getInt("release_year") %></td>
            <td><%= rs.getBigDecimal("rating") %></td>
        </tr>
    </tbody>
</table>
```

```

<%
    } else {
        out.println("<p style='color:red;'>No movie found with ID " + selectedId + "</p>");
    }
} catch(Exception e){
    out.println("<p style='color:red;'>Error fetching movie: " + e.getMessage() + "</p>");
} finally {
    if(rs != null) try { rs.close(); } catch(Exception e){}
    if(stmt != null) try { stmt.close(); } catch(Exception e){}
    if(conn != null) try { conn.close(); } catch(Exception e){}
}
}
%>
</body>
</html>

```

MovieBean.java

// Source code is decompiled from a .class file using FernFlower decompiler (from IntelliJ IDEA).

```
package mybeans;
```

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

```

```
import java.util.ArrayList;
```

```
public class MovieBean {
```

```
    private Connection conn;
```

```
    public MovieBean() throws Exception {
```

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

```
        this.conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/CSD430",  
"student1", "pass");
```

```
    }
```

```
    public ArrayList<Integer> getMovieIds() throws SQLException {
```

```
        ArrayList var1 = new ArrayList();
```

```
        Statement var2 = this.conn.createStatement();
```

```
        ResultSet var3 = var2.executeQuery("SELECT movie_id FROM kyle_movies_data");
```

```
        while(var3.next()) {
```

```
            var1.add(var3.getInt("movie_id"));
```

```
        }
```

```
        return var1;
```

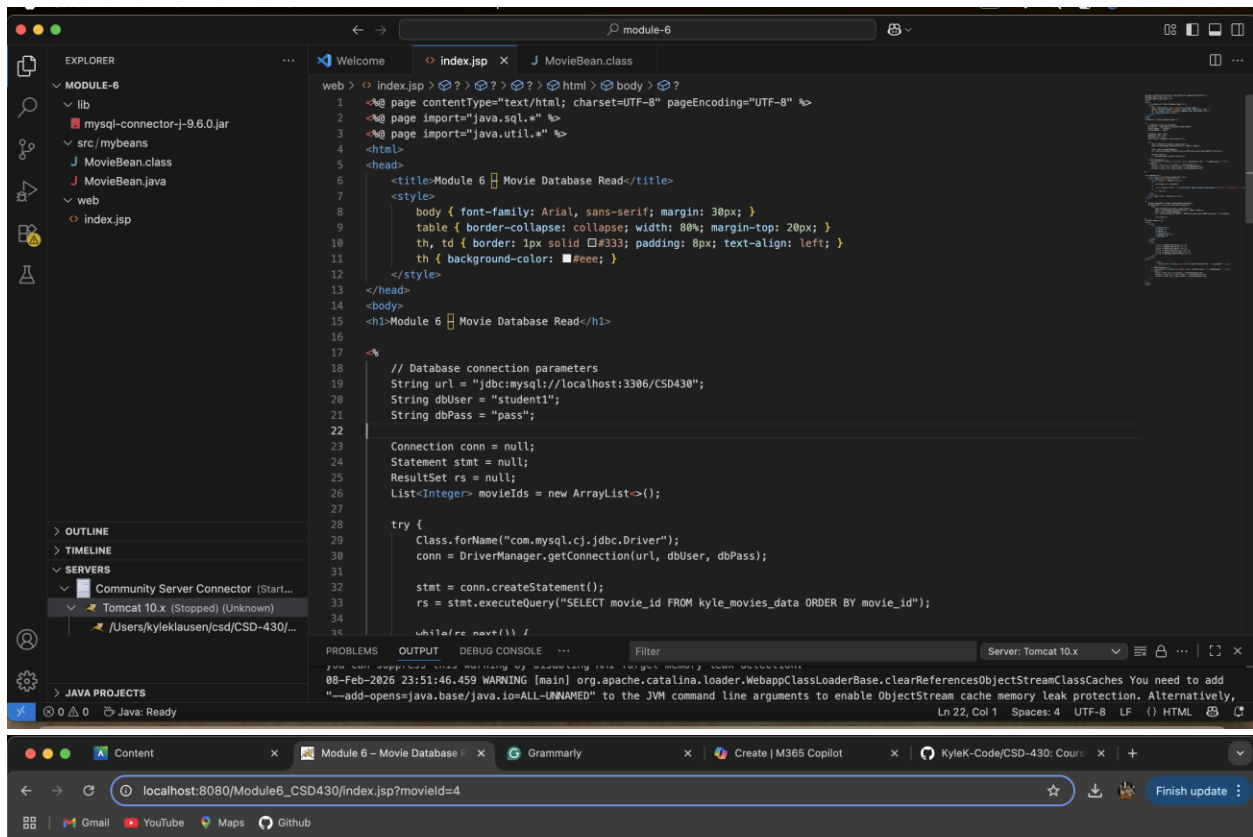
```
    }
```

```
    public ResultSet getMovieById(int var1) throws SQLException {
```

```
        PreparedStatement var2 = this.conn.prepareStatement("SELECT * FROM  
kyle_movies_data WHERE movie_id = ?");
```

```
var2.setInt(1, var1);  
return var2.executeQuery();  
}  
}
```

Screenshots:

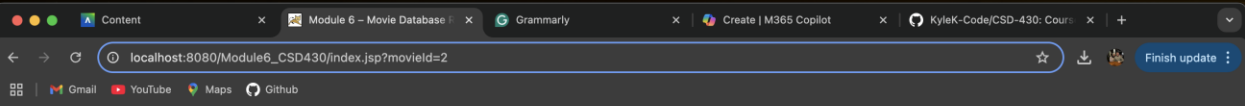


Module 6 – Movie Database Read

Select Movie ID:

Movie Details

Movie ID	Title	Genre	Director	Release Year	Rating
4	Gladiator	Action	Ridley Scott	2000	8.5

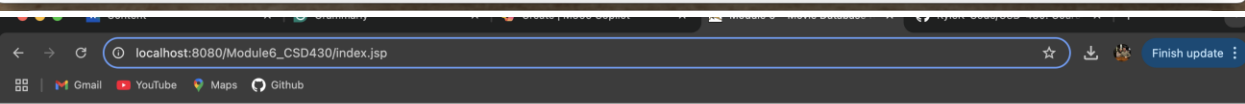


Module 6 – Movie Database Read

Select Movie ID:

Movie Details

Movie ID	Title	Genre	Director	Release Year	Rating
2	The Matrix	Sci-Fi	Wachowski Sisters	1999	8.7



Module 6 – Movie Database Read

Select Movie ID: