Assignment On Servlet and Jdbc

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CulturalEvents.java

```java
public class CulturalEvents
{
private int roll_no;
private String name;
private String gender;
private String class_of_student;
private String activity_name;
public int getRoll_no() {
return roll_no;
        }
        public void setRoll_no(int roll_no) {
                this.roll_no = roll_no;
        }
        public String getName() {
                return name;
        }
        public void setName(String name) {
this.name = name;
        }
        public String getGender() {
                return gender;
        }
        public void setGender(String gender) {
this.gender = gender;
        }
        public String getClass_of_student() {
                return class_of_student;
        }
        public void setClass_of_student(String class_of_student) {
                this.class_of_student = class_of_student;
        }
        public String getActivity_name() {
return activity_name;
        }
        public void setActivity_name(String activity_name) {
                this.activity_name = activity_name;
        }

}
```

CulturalEventsDAO.java

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
```

```java
 public class CulturalEventsDAO
{
        String dbDriver="com.mysql.jdbc.Driver";
        String dbURL="jdbc:mysql://localhost:3306/firstdb";
        String userName="root";
        String pwd="supriya123";
        Connection dbCon;

        private boolean connectToDtbc()throws SQLException,ClassNotFoundException
        {
                Class.forName(dbDriver);
                dbCon=DriverManager.getConnection(dbURL,userName,pwd);
                return true;
                //System.out.println("connection establish successfully:");


        }
        public boolean insertRecord(CulturalEvents ce)
        {
                String insertQueryStr="insert into employeetable values(?,?,?,?,?)";
                try
        {
                        if(connectToDtbc())
                        {
                                 PreparedStatement
                                ppStmt=dbCon.prepareStatement(insertQueryStr);

                                 ppStmt.setInt(1,ce.getRoll_no());
                                ppStmt.setString(2, ce.getName());
                ppStmt.setString(3, ce.getGender());
ppStmt.setString(4, ce.getClass_of_student());
                                ppStmt.setString(5,ce.getActivity_name());

                                ppStmt.executeUpdate();//overloaded method
                                ppStmt.close();
                        dbCon.close();
return true;


                        }
                        else
                                return false;
                }
                catch(Exception e)
                {
                        return false;
                }
        }
}
```

CulturalEventsServlet.java

```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;

/**
 * Servlet implementation class CulturalEventsServlet
 */
public class CulturalEventsServlet extends HttpServlet {
private static final long serialVersionUID = 1L;

    /**
 * @see HttpServlet#HttpServlet()
     */
    public CulturalEventsServlet() {
super();
        // TODO Auto-generated constructor stub
    }


        /**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
         */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
        {
                CulturalEvents CE=new CulturalEvents();
                CE.setRoll_no(Integer.parseInt(request.getParameter("Roll_no")));
                CE.setName(request.getParameter("Name"));
                CE.setGender(request.getParameter("Gender"));
                CE.setClass_of_student(request.getParameter("Class_of_student"));
                CE.setActivity_name(request.getParameter("Activity_name"));


                CulturalEventsDAO ceDAOObj=new CulturalEventsDAO();
                if( ceDAOObj.insertRecord(CE))
                {
                        response.sendRedirect("Success.html");
                }
                else
        {
                        response.sendRedirect("Retry.html");
                }
        }


        /**
  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
         */

}
```

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>STUDENT DETAILS FORM</title>
</head>
<body>
<h1>Student details</h1>
<form action= "CulturalEventsServlet" method="get">
Student RollNumber
<input type="text" name="Roll_no"><br>
Student Name:
<input type="text" name="Name"><br>
Student Gender:
<input type="text" name="Gender"><br>
Student Class:
<input type="text" name="Class_of_student"><br>
Activity Name:
<input type="text" name="Activity_name"><br>
<input type="submit" value="save">


</body>
</html>
```

Success.html
```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
Record inserted Successfully!!
</body>
</html>
```

Retry.html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Record could not inserted</title>
</head>
<body>
Record could not inserted
</body>
</html>
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="https://jakarta.ee/xml/ns/jakartaee"
```

```xml
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd http://xmlns.jcp.org/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" version="5.0">


    <display-name>CulturalEventsStudentInfo</display-name>
     <welcome-file-list>
    <welcome-file>StudentDetails.html</welcome-file>
    </welcome-file-list>

    <servlet>
    <servlet-name>CulturalEventsServlet</servlet-name>
    <servlet-class>CulturalEventsServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>CulturalEventsServlet</servlet-name>     <url-
pattern>/CulturalEventsServlet</url-pattern>
  </servlet-mapping>

</web-app>
```