### IMPLEMENT ONLINE STUDENT COURSE REGISTRATION USING JSP

#### WITH DATABASE CONNECTIVITY

#### AIM:

To implement online student course registration using JSP with database connectivity

#### **ALGORITHM:**

- 1. Sets the content type of the response to text/html;charset=UTF-8.
- 2. Defines the database connection parameters for a MySQL database named courseregister.
- 3. Gets the course registration responses using a HTML form and set submit action to the JSP file.
- 4. Loads the MySQL driver and connects to the database using the defined parameters.
- 5. Gets the name, email, phone number, gender, DOB, selected courses and course duration parameter from the request and uses it to prepare an SQL query to set the corresponding columns with the data the student-registration table.
- 6. Generates HTML dynamically to display the courses the student have registered to.
- 7. Closes the database connection.

#### CODE:

## registration.jsp

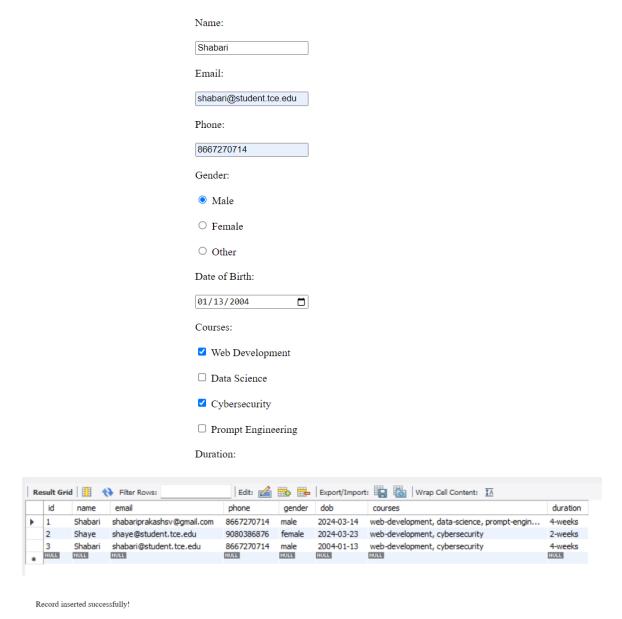
```
<%@ page import="java.sql.*" %>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<body>

<%!
    String name;
    String email;
    String phone;
    String gender;
    String dob;
    String selectedCourses;</pre>
```

```
String duration;
  <%
  try {
      Class.forName("com.mysgl.jdbc.Driver");
      Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/courseregister", "root", "2323");
       name = request.getParameter("name");
       email = request.getParameter("email");
       phone = request.getParameter("phone");
       gender = request.getParameter("gender");
       dob = request.getParameter("dob");
       String[] courses = request.getParameterValues("courses");
       selectedCourses = (courses != null) ? String.join(", ", courses) : "";
       duration = request.getParameter("duration");
      String sql = "INSERT INTO studreg (name,email,phone, gender,dob,courses, duration) VALUES (?, ?, ?, ?, ?, ?,
?)";
      try (PreparedStatement stmnt = connection.prepareStatement(sql)) {
        stmnt.setString(1, name);
         stmnt.setString(2, email);
         stmnt.setLong(3, Long.parseLong(phone));
         stmnt.setString(4, gender);
         stmnt.setString(5, dob);
         stmnt.setString(6, selectedCourses);
         stmnt.setString(7, duration);
        int rowsAffected = stmnt.executeUpdate();
         if (rowsAffected > 0) {
           out.println("Record inserted successfully!");
           out.println("Failed to insert the record.");
        }
      } catch (SQLException e) {
         e.printStackTrace();
      }
     connection.close();
    }
    catch (Exception e) {
      out.println("Exception: " + e.getMessage());
      e.printStackTrace();
    }
  %>
    <div class="container">
      <h1>
         Congratulations <%= name %> !!!! <br>
        You have successfully registered to the courses: <%= selectedCourses %>.
      </h1>
    </div>
</body>
</html>
```

#### **OUTPUT SCREEN SHOT**

# **Course Registration**



Congratulations Shabari !!!!

You have successfully registered to the courses: web-development, cybersecurity.

#### **RESULT:**

Thus, we have successfully implemented the course registration with DB connectivity using JSP.