



MINI PROJECT

CSM04 – INTERNET PROGRAMMING

JSP AND SERVLET IMPLEMENTATION



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B. TECH MECHATONICS ENGINEERING

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memberRegistration.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>STUDENT APPLICATION FORM</title>
</head>
<body>
    <div class="container">
        <h1>PUDUCHERRY TECHNOLOGICAL UNIVERSITY</h1>
        <h2>Student Application Form</h2>
        <div class="form-wrapper">
            <form action="Upload" method="post">
                <div class="form-item">
                    <label for="fullname">Student Image:</label>
                    <input type="file" name="studentimage" id="studentimage"
required>

                    <p>(less than 5 Mb)</p>
                </div>
                <div class="form-item">
                    <label for="fullname">Student Name:</label>
                    <input type="text" name="fullname" id="fullname"
placeholder="Full Name" required>
                </div>
                <div class="form-item">
                    <label for="username">Father's Name:</label>
                    <input type="text" name="username" id="fathersname"
placeholder="Father's Full Name" required>
                </div>
                <div class="form-item">
                    <label for="username">Mother's Name:</label>
                    <input type="text" name="username" id="mothersname"
placeholder="Mother's Full Name" required>
                </div>

                <div class="form-item">
                    <label for="gender">Gender:</label>
                    <div class="genders">
                        <p>Male</p> <input type="radio" name="gender"
id="gender" value="male" required>

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        <p>Female</p> <input type="radio" name="gender"
id="gender" value="female">
        <p>Other</p> <input type="radio" name="gender"
id="gender" value="other">
    </div>
</div>
<div class="form-item">
    <label for="email">Date of Birth</label>
    <input type="date" name="DOB" id="dob" required>
</div>
<div class="form-item">
    <label for="email">E-mail:</label>
    <input type="email" name="email" id="email"
placeholder="email@xyz.com" required>
</div>
<div class="form-item">
    <label for="level">Level:</label>
    <select name="level" id="level">
        <option value="highschool">High School</option>
        <option value="highschool">Bachelors </option>
        <option value="highschool">Masters</option>
        <option value="highschool">Phd</option>
    </select>
</div>
<div class="form-item">
    <label for="department">Department:</label>
    <select name="department" id="department">
        <option value="electrical">Electrical
Engineering</option>
        <option value="electrical">Computer
Engineering</option>
        <option value="electrical">Software
Engineering</option>
        <option value="electrical">Civil Engineering</option>
    </select>
</div>

<div class="form-item">
    <label for="phonenumber">Tel/Mobile:</label>
    <input type="tel" name="phonenumber" id="phonenumber"
placeholder="XXX XXX XXXX" required>
</div>
<hr>
<h3>Permanent Address</h3>
<div class="form-item">
    <label for="pstate">State:</label>
    <input type="text" name="pstate" id="pstate"
placeholder="State" required>

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        </div>
        <div class="form-item">
            <label for="pcity">City:</label>
            <input type="text" name="pcity" id="pcity"
placeholder="City" required>
        </div>
        <div class="form-item">
            <label for="pzip">Zip Code:</label>
            <input type="number" name="pzip" id="pzip"
placeholder="Zip Code" required>
        </div>
        <div class="form-item">
            <label for="pphonenumbe" >Tel/Mobile:</label>
            <input type="tel" name="pphonenumbe" id="pphonenumbe"
placeholder="XXX XXX XXXX" required>
        </div>
        <hr>
        <h3>Temporary Address</h3>
        <div class="same-perm">
            <label for="sameaspermanent">Same as Permanent
Address:</label> <input type="checkbox" name="sameaspermanent"
id="sameaspermanent">
        </div>
        <div class="form-item">
            <label for="tstate">State:</label>
            <input type="text" name="tstate" id="tstate"
placeholder="State" required>
        </div>
        <div class="form-item">
            <label for="tcity">City:</label>
            <input type="text" name="tcity" id="tcity"
placeholder="City" required>
        </div>
        <div class="form-item">
            <label for="tzip">Zip Code:</label>
            <input type="number" name="tzip" id="tzip"
placeholder="Zip Code" required>
        </div>
        <div class="form-item">
            <label for="tphonenumbe" >Tel/Mobile:</label>
            <input type="tel" name="tphonenumbe" id="tphonenumbe"
placeholder="XXX XXX XXXX" required>
        </div>

        <button class="register" type="submit">Register</button>
    </form>

</div>

```

```

        </div>

</body>
</html>
<style>
@charset "ISO-8859-1";
html {
    background:#fbfbfb
}
.container {
    display: flex;
    flex-direction: column;
    align-items: center;
    margin: auto;
    width: 75vw;
    background:#E9A178 ;
    padding: 25px;
}
.container h1 {
    font-family: Arial, Helvetica, sans-serif;
    color: rgb(59, 55, 55);
    font-size: 25px;
    margin-bottom: 5px;
}
.container h2 {
    font-family: Arial, Helvetica, sans-serif;
    color: rgb(59, 55, 55);
    font-size: 20px;
    margin-top: 5px;
}
.form-wrapper {
    margin: 15px;
    width: 100%;
}
.form {
    width: 90%;
}
#studentimage {
    height: 80px;
    width: 80px;
    border-radius: 5px;
    font-family: Arial, Helvetica, sans-serif;
    color: rgb(59, 55, 55);
}
p {
    font-family: Arial, Helvetica, sans-serif;
    color: Black;
    font-size: 14px;

```

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}
.form-item {
    display: flex;
    margin: auto;
    align-items: center;
    width: 80%;
}
.form-item label {
    width: 150px;
    font-size: 14px;
    font-family: Arial, Helvetica, sans-serif;
}
.form-item input {
    margin: 5px 15px;
    height: 22px;
    width: 100%;
    font-size: 13px;
    border: 1px black solid;
    border-radius: 5px;
}
.form-item select {
    margin: 5px 0px;
    width: max-content;
}
.genders {
    display: flex;
    align-items: center;
    font-family: Arial, Helvetica, sans-serif;
    margin-left: 16px;
    font-size: 14px;
}
.genders input {
    width: 20px;
}
hr {
    margin-top: 15px;
    width: 80%;
}
h3 {
    font-family: Arial, Helvetica, sans-serif;
    text-align: center;
}
.same-perm{
    display: flex;
    font-family: Arial, Helvetica, sans-serif;
    text-align: center;
    font-size: 13px;
    margin: 5px 105px;
}

```

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}
.register {
  margin: 25px;
  background: #820000;
  font-size: 20px;
  font-family: Arial, Helvetica, sans-serif;
  padding: 7px 20px;
  border-radius: 5px;
  color: #fbfbfb;
  border: 0;
  cursor: pointer;
}
.register:hover {
  color: #3a3636;
}
@media screen and (max-width: 640px) {
  .container {
    width: 90vw;
    padding: 10px 5px;
  }
  .form-item label {
    font-size: 14px;
  }
  .form-item input {
    margin: 5px 10px;
    font-size: 12px;
  }
  .genders {
    margin-left: 10px;
    font-size: 13px;
  }
  .genders input {
    width: 15px;
  }
  .same-perm{

    font-size: 13px;
    margin: 5px 50px;
  }
  .register {
    margin: 25px;
    font-size: 15px;
    padding: 7px 10px;
  }
}
</style>
<script>
let pstate = document.querySelector("#pstate")

```

```
let pcity = document.querySelector("#pcity")
let pzip = document.querySelector("#pzip")
let pphonenum = document.querySelector("#pphonenum")

let tstate = document.querySelector("#tstate")
let tcity = document.querySelector("#tcity")
let tzip = document.querySelector("#tzip")
let tphonenum = document.querySelector("#tphonenum")

let sameaspermanent = document.querySelector("#sameaspermanent")
sameaspermanent.addEventListener('change', () => {
  if (sameaspermanent.checked === true) {
    tstate.value = pstate.value;
    tcity.value = pcity.value;
    tzip.value = pzip.value;
    tphonenum.value = pphonenum.value;
  } else if (sameaspermanent.checked === false) {
    tstate.value = "";
    tcity.value = "";
    tzip.value = "";
    tphonenum.value = "";
  }
})
</script>
```


Upload.java

```
import java.io.IOException;
import java.io.InputStream;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

import org.apache.tomcat.util.http.fileupload.FileItemFactory;
import org.apache.tomcat.util.http.fileupload.disk.DiskFileItemFactory;
import org.apache.tomcat.util.http.fileupload.servlet.ServletFileUpload;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.MultipartConfig;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.Part;

public class Upload extends HttpServlet {

    private static final long serialVersionUID = 1L;

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

        // Get form data
        String fullname = request.getParameter("fullname");
        String fathersname = request.getParameter("fathersname");
        String mothersname = request.getParameter("mothersname");
        String gender = request.getParameter("gender");
        String dob = request.getParameter("dob");
        String email = request.getParameter("email");
        String level = request.getParameter("level");
        String department = request.getParameter("department");
        String phonenumber = request.getParameter("phonenumber");
        String pstate = request.getParameter("pstate");
        String pcity = request.getParameter("pcity");
        String pzip = request.getParameter("pzip");
        String pphonenumber = request.getParameter("pphonenumber");
        String sameaspermanent = request.getParameter("sameaspermanent");
        String tstate = request.getParameter("tstate");
        String tcity = request.getParameter("tcity");
        String tzip = request.getParameter("tzip");
        String tphonenumber = request.getParameter("tphonenumber");
```

```

Connection conn = null;
PreparedStatement stmt = null;
ResultSet rs = null;

try {
    // Connect to database
    String jdbcUrl =
"jdbc:mariadb://localhost:3300/userdb?user=root&password=root123";
    Class.forName("org.mariadb.jdbc.Driver");
    conn = DriverManager.getConnection(jdbcUrl);

    // Insert user data into database
    String sql = "INSERT INTO member (fullname, fathersname,
mothersname, gender, dob, email, level, department, phonenumber, pstate,
pcity, pzip, pphonenumber, sameaspermanent, tstate, tcity, tzip, tphonenumber)
VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
    stmt = conn.prepareStatement(sql);
    stmt.setString(1, fullname);
    stmt.setString(2, fathersname);
    stmt.setString(3, mothersname);
    stmt.setString(4, gender);
    stmt.setString(5, dob);
    stmt.setString(6, email);
    stmt.setString(7, level);
    stmt.setString(8, department);
    stmt.setString(9, phonenumber);
    stmt.setString(10, pstate);
    stmt.setString(11, pcity);
    stmt.setString(12, pzip);
    stmt.setString(13, pphonenumber);
    stmt.setString(14, sameaspermanent);
    stmt.setString(15, tstate);
    stmt.setString(16, tcity);
    stmt.setString(17, tzip);
    stmt.setString(18, tphonenumber);
    int rowsInserted = stmt.executeUpdate();

    if (rowsInserted > 0) {
        // Registration successful
        response.sendRedirect("success.jsp");
    } else {
        // Registration failed
        response.sendRedirect("failure.jsp");
    }

} catch (SQLException | ClassNotFoundException ex) {
    // Handle exceptions
    ex.printStackTrace();
}

```

```
        //response.sendRedirect("error.jsp");
    } finally {
        // Close database resources
        try { rs.close(); } catch (Exception e) {}
        try { stmt.close(); } catch (Exception e) {}
        try { conn.close(); } catch (Exception e) {}
    }
}
}
```

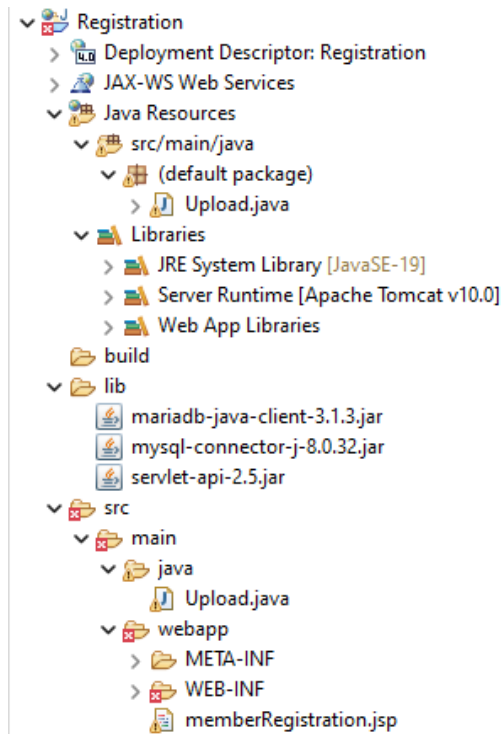


Figure 1 Project Tree

PUDUCHERRY TECHNOLOGICAL UNIVERSITY
Student Application Form

Student Image: (less than 5 MB)

Student Name:

Father's Name:

Mother's Name:

Gender: ☒ Male ☐ Female ☐ Other

Date of Birth:

E-mail:

Level:

Department:

Tel/Mobile:

Permanent Address

State:

City:

Zip Code:

Tel/Mobile:

Temporary Address

Same as Permanent Address: ☒

State:

City:

Zip Code:

Tel/Mobile:

Figure 2 Page preview

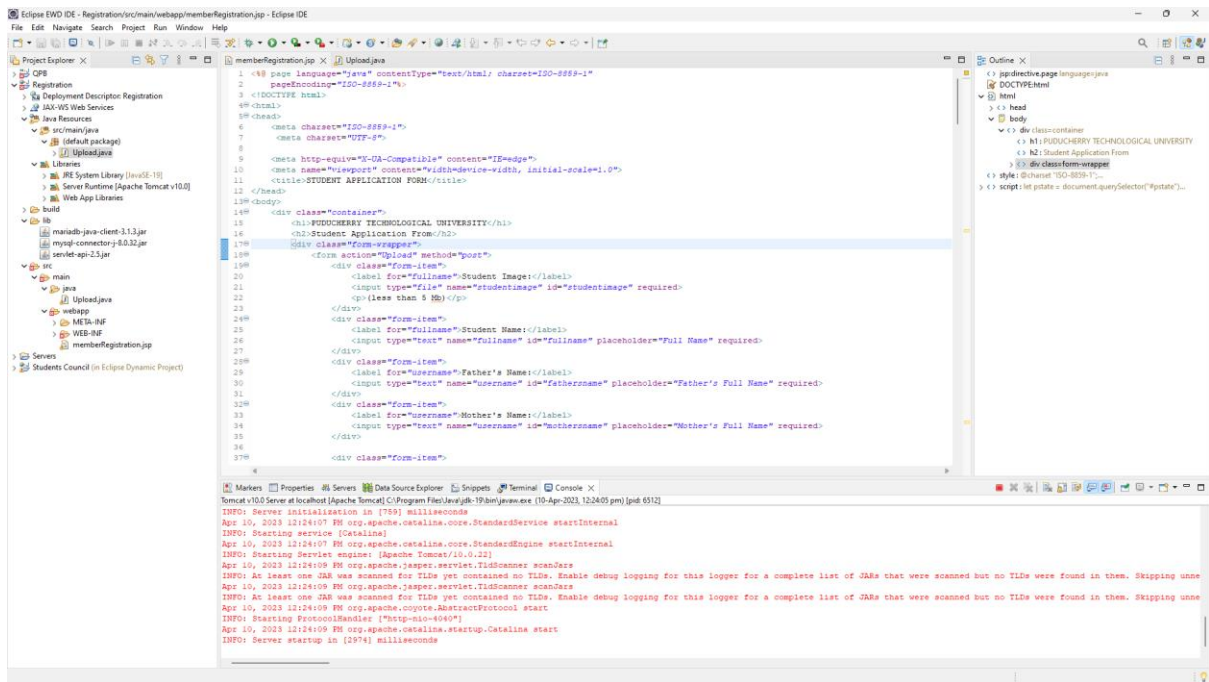


Figure 3 Execution of the code

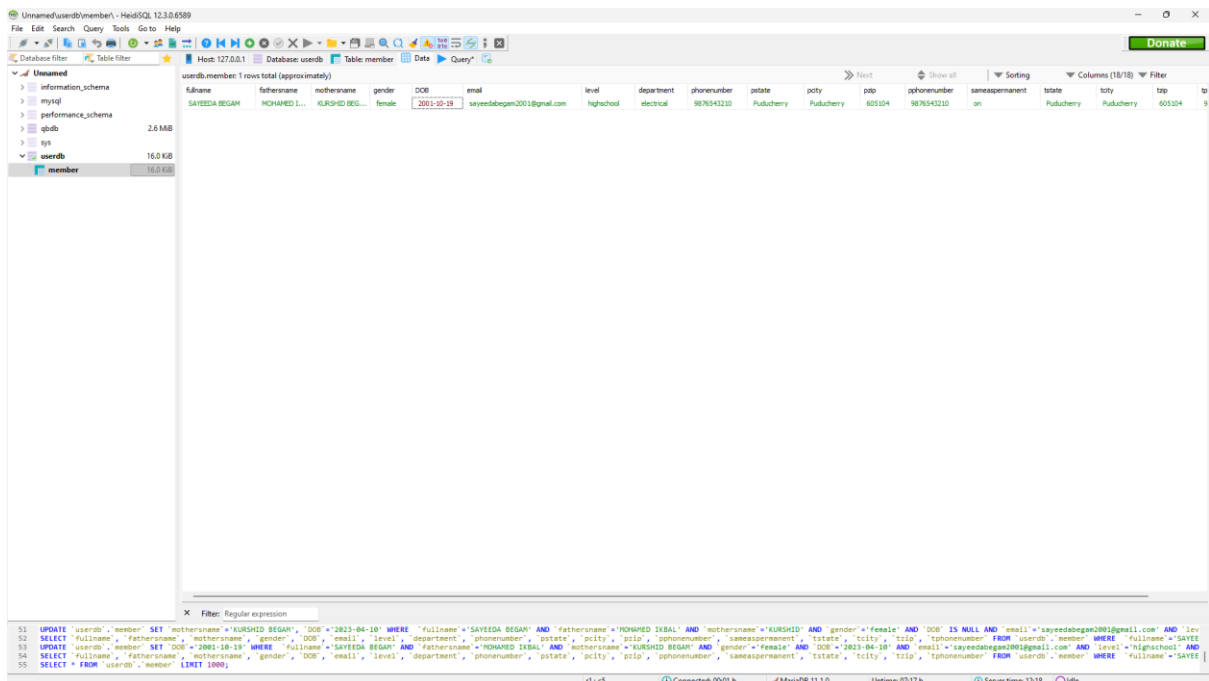


Figure 4 Output in MariaDB