#### index.html

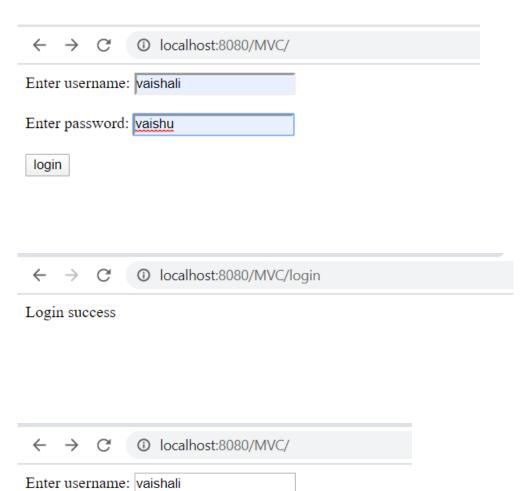
```
<html>
<body>
<form action="login" method="post">
<label>Enter username:
      <input type="text" name="t1">
</label>
<br>
<label>Enter password:
      <input type="text" name="t2">
</label>
<input type="submit" value="login">
</form>
</body>
</html>
error.jsp
<% @ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<html>
<body>
<c:out value ="Login failed"/>
</body>
</html>
success.jsp
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<html>
<body>
<c:out value ="Login success"/>
</body>
</html>
web.xml
<web-app>
      <servlet>
      <servlet-name>loginServlet</servlet-name>
      <servlet-class>loginController</servlet-class>
```

```
</servlet>
<servlet-mapping>
      <servlet-name>loginServlet</servlet-name>
      <url-pattern>/login</url-pattern>
</servlet-mapping>
</web-app>
loginController.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
import Bean.userBean;
import DAO.userDAO;
public class loginController extends HttpServlet{
      public void doPost(HttpServletRequest request, HttpServletResponse
response)
     throws IOException, ServletException {
   response.setContentType("text/html");
   PrintWriter out = response.getWriter();
      String u_str=request.getParameter("t1");
      String p_str=request.getParameter("t2");
//prepare the bean
      userBean usr = new userBean();
      usr.set_u(u_str);
      usr.set_p(p_str);
//call auth in userDAO
userDAO dao=new userDAO();
int i=dao.auth(usr);
if(i==1)
      request.getRequestDispatcher("success.jsp").forward(request,response);
else if(i==0)
      request.getRequestDispatcher("error.jsp").forward(request,response);
```

```
else if(i==-1)
      request.getRequestDispatcher("new_error.jsp").forward(request,respons
e);
//out.println("i val: "+i);
userBean.java
package Bean;
public class userBean
private String u,p;
public void set_u(String u_str)
 this.u=u_str;
public void set_p(String p_str)
 this.p=p_str;
public String get_u()
 return this.u;
 public String get_p()
 return this.p;
userDAO.java
package DAO;
import Bean.userBean;
```

```
import java.sql.*;
public class userDAO{
Connection con;
Statement stmt;
ResultSet rs;
String sql;
int flag=0;
      public int auth(userBean 1)
      String usr=l.get_u();
      String pwd=l.get_p();
      final String DB_URL ="jdbc:mysql://localhost/test1";
      final String USER = "root";
      final String PASS ="vaishu";
      try{
    Class.forName("com.mysql.jdbc.Driver");
    con=DriverManager.getConnection(DB_URL,USER,PASS);
                   sql="select * from users";
                        stmt=con.createStatement();
                        rs = stmt.executeQuery(sql);
                        while(rs.next())
                              if(usr.equals(rs.getString(1)) &&
pwd.equals(rs.getString(2)) )
                                     flag=1; //return 1;
 }catch(ClassNotFoundException ex){ }
        // out.println("class error"+ex.getMessage()+"");
 catch(SQLException ex){ }
        // out.println("sql error"+ex.getMessage()+"");
 return flag;
}
```

#### **OUTPUT:**



Login failed

login

Enter password: xyz

#### index.html

```
<html>
<body>
<form method="GET" action="generate">
<fieldset> <legend>Marklist Generation </legend>
Enter Roll No
<input type="text" name="t1">
<br>><br>>
<input type="submit" value="Generate Marklist">
</fieldset>
</form>
<hr>>
<form method="GET" action="insert">
<fieldset> <legend> Create Operation </legend>
<input type="radio" name="table_name" value="student">Student
<input type="radio" name="table_name" value="marks">Marks
<br>
Enter Roll No <input type="text" name="t2"><br><br>
Enter Name <input type="text" name="t0"><br><br>
Enter Marks in CS8603 <input type="text" name="t5"><br><br>
Enter Marks in CS8691 <input type="text" name="t7"><br><br>
Enter Marks in CS8075 <input type="text" name="t8"><br><br>
<input type="submit" value="Insert record">
</fieldset>
</form>
<br>
<form method="GET" action="delete">
<fieldset> <legend>Remove operation</legend>
Enter Roll No <input type="text" name="t8">
<input type="submit" value="Delete record">
</fieldset>
</form>
<br>><br>>
<form method="GET" action="update">
```

```
<fieldset> <legend>Update operation</legend>
<input type="radio" name="tbl_name" value="student">Student
<input type="radio" name="tbl_name" value="marks">Marks
Enter Roll No <input type="text" name="t9"><br><br>>
Enter Name <input type="text" name="t10"><br><br><br><br/>>
Enter Marks in CS8601 <input type="text" name="t11"><br><br><br/>
Enter Marks in CS8602 <input type="text" name="t12"><br><br>>
Enter Marks in CS8603 <input type="text" name="t13"><br><br><br/>br><
Enter Marks in CS8651 <input type="text" name="t14"><br><br><br/>br><
Enter Marks in CS8691 <input type="text" name="t15"><br><br><br/>
Enter Marks in CS8075 <input type="text" name="t16"><br><br><br/>br><
<input type="submit" value="Update Record">
</fieldset>
</form>
<br>><br>>
<form method="GET" action="list">
<fieldset> <legend>Display operation</legend>
<input type="submit" value="View Database">
</fieldset>
</form>
</body>
</html>
web.xml
<web-app>
<servlet>
<servlet-name>gen</servlet-name>
<servlet-class>GenerateServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>gen</servlet-name>
<url-pattern>/generate</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>ins</servlet-name>
<servlet-class>CreateServlet</servlet-class>
```

```
</servlet>
<servlet-mapping>
<servlet-name>ins</servlet-name>
<url-pattern>/insert</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>del</servlet-name>
<servlet-class>RemoveServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>del/servlet-name>
<url-pattern>/delete</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>upd</servlet-name>
<servlet-class>UpdateServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>upd</servlet-name>
<url-pattern>/update</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>lis</servlet-name>
<servlet-class>DisplayServlet/servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>lis</servlet-name>
<url-pattern>/list</url-pattern>
</servlet-mapping>
</web-app>
CreateServlet.java
import javax.servlet.http.*;
```

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
import java.sql.*;
```

```
public class CreateServlet extends HttpServlet
String regno,c,s,name;
int m1,m2,m3,m4,m5,m6,i,j;
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
      res.setContentType("text/html");
      PrintWriter pw=res.getWriter();
try{
Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root",
"vaishu");
String table_name = req.getParameter("table_name");
if (table_name.equals("student"))
regno = req.getParameter("t2");
name = req.getParameter("t0");
PreparedStatement ps1 = con.prepareStatement("INSERT INTO student
values(?,?);");
ps1.setString(1,regno);
ps1.setString(2,name);
j=ps1.executeUpdate();
else if (table_name.equals("marks"))
regno = req.getParameter("t2");
m1 = Integer.parseInt(req.getParameter("t3"));
m2 = Integer.parseInt(req.getParameter("t4"));
m3 = Integer.parseInt(req.getParameter("t5"));
m4 = Integer.parseInt(req.getParameter("t6"));
m5 = Integer.parseInt(req.getParameter("t7"));
m6 = Integer.parseInt(req.getParameter("t8"));
```

```
PreparedStatement ps2 = con.prepareStatement("INSERT INTO marks
values(?,?,?,?,?,?);");
ps2.setString(1,regno);
ps2.setInt(2,m1);
ps2.setInt(3,m2);
ps2.setInt(4,m3);
ps2.setInt(5,m4);
ps2.setInt(6,m5);
ps2.setInt(7,m6);
j=ps2.executeUpdate();
if(j==1)
     pw.println("Record inserted");
else
     pw.println("Record not inserted");
pw.println("<html>");
pw.println("<body>");
if (table_name.equals("student"))
PreparedStatement ps = con.prepareStatement("SELECT * FROM student");
ResultSet rs = ps.executeQuery();
pw.println("<h2>Student Details after insertion</h2><br/>>(br>");
pw.println("");
pw.println("Roll NoName");
while (rs.next())
regno=rs.getString("reg_no");
name=rs.getString("name");
pw.println(""+regno+""+name+"");
pw.println("");
pw.println("<br>>");
else{
PreparedStatement ps3 = con.prepareStatement("SELECT * FROM marks");
ResultSet rs1 = ps3.executeQuery();
```

```
pw.println("<h2>Marks Details after insertion</h2><br>");
pw.println("");
pw.println("Reg
NoCS8601CS8602CS8603CS8651
h>CS8691CS8075");
while (rs1.next())
regno=rs1.getString("reg_no");
m1=rs1.getInt(2);
m2=rs1.getInt(3);
m3=rs1.getInt(4);
m4=rs1.getInt(5);
m5=rs1.getInt(6);
m6=rs1.getInt(7);
pw.println(""+regno+""+m1+""+m2+""
"+m3+""+m4+""+m5+""+m6+"");
pw.println("");
pw.println("<br>>");
pw.println("</body>");
pw.println("</html>");
con.close();
}catch (Exception e)
{pw.println("Error!");}
}
}
DisplayServlet.java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
import java.sql.*;
public class DisplayServlet extends HttpServlet
String c,s,name,regno;
int s1,s2,s3,s4,s5,s6;
```

```
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
    res.setContentType("text/html");
    PrintWriter pw=res.getWriter();
    try{
    Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root",
"vaishu");
pw.println("<html>");
pw.println("<body>");
PreparedStatement ps = con.prepareStatement("SELECT * FROM student");
ResultSet rs = ps.executeQuery();
pw.println("<h2>Student Details</h2><br>");
pw.println("");
pw.println("Roll NoName");
while (rs.next())
regno=rs.getString("reg_no");
name=rs.getString("name");
pw.println(""+regno+""+name+"");
pw.println("");
pw.println("<br>");
PreparedStatement ps3 = con.prepareStatement("SELECT * FROM marks");
ResultSet rs1 = ps3.executeQuery();
pw.println("<h2>Marks Details</h2><br>");
pw.println("");
pw.println("Reg
NoCS8601CS8602CS8603CS8651
h>CS8691CS8075");
while (rs1.next())
regno=rs1.getString("reg_no");
s1=rs1.getInt(2);
```

```
s2=rs1.getInt(3);
s3=rs1.getInt(4);
s4=rs1.getInt(5);
s5=rs1.getInt(6);
s6=rs1.getInt(7);
pw.println(""+regno+""+s1+""+s2+""+
s3+""+s4+""+s5+""+s6+"");
pw.println("");
pw.println("<br>");
PreparedStatement ps4 = con.prepareStatement("SELECT * FROM
mapping");
ResultSet rs2 = ps4.executeQuery();
pw.println("<h2>Course Details</h2><br>");
pw.println("");
pw.println("Subject CodeSubject Name");
while (rs2.next())
c=rs2.getString("code");
s=rs2.getString("sub");
pw.println(""+c+""+s+"");
pw.println("");
pw.println("</body>");
pw.println("</html>");
con.close();}
catch (Exception e)
{pw.println("Error!");}
}
GenerateServlet.java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
```

```
import java.sql.*;
public class GenerateServlet extends HttpServlet
int i=0;
int marks∏;
String regno,c,s;
ResultSet rs1,rs2;
Connection con;
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
res.setContentType("text/html");
PrintWriter pw=res.getWriter();
try{
Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root",
"vaishu");
PreparedStatement ps1 = con.prepareStatement("SELECT * FROM student
WHERE reg_no=?");
regno = req.getParameter("t1");
ps1.setString(1,regno);
rs1 = ps1.executeQuery();
pw.println("<html>");
pw.println("<body>");
pw.println("<h2>MarkList</h2><br>");
rs1.next();
pw.print("<h3>Roll number: "+rs1.getString(1)+"</h3>"+" ");
pw.println("<h3>Name: "+rs1.getString(2)+"</h3><br>");
PreparedStatement ps2 = con.prepareStatement("SELECT * FROM marks
WHERE reg_no=?");
ps2.setString(1,regno);
rs2 = ps2.executeQuery();
rs2.next();
```

```
marks = new int[6];
marks[0] = rs2.getInt(2);
marks[1] = rs2.getInt(3);
marks[2] = rs2.getInt(4);
marks[3] = rs2.getInt(5);
marks[4] = rs2.getInt(6);
marks[5] = rs2.getInt(7);
PreparedStatement ps3 = con.prepareStatement("SELECT * FROM
mapping");
ResultSet rs3 = ps3.executeQuery();
pw.println("");
pw.println("Subject CodeSubject
NameMarks");
while (rs3.next())
//pw.println("marsddk"+marks[0]);
c=rs3.getString("code");
s=rs3.getString("sub");
pw.println(""+c+""+s+""+marks[i]+"")
i++;
pw.println("");
pw.println("</body>");
pw.println("</html>");
con.close();
catch (Exception e) {pw.println("Erroreee!"+e);}
}
```

#### RemoveServlet.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
import java.sql.*;
public class RemoveServlet extends HttpServlet
String c,s,name,regno;
int m1,m2,m3,m4,m5,m6,i,j;
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
      res.setContentType("text/html");
      PrintWriter pw=res.getWriter();
      try{
      Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root",
"vaishu");
regno = req.getParameter("t8");
PreparedStatement ps1 = con.prepareStatement("DELETE FROM student
WHERE reg no=?;");
ps1.setString(1,regno);
i=ps1.executeUpdate();
PreparedStatement ps2 = con.prepareStatement("DELETE FROM marks
WHERE reg_no=?;");
ps2.setString(1,regno);
i=ps2.executeUpdate();
if(j!=1) pw.println("Mark not deleted");
if(i==1 \&\& i==1)
      pw.println("Record deleted");
else
      pw.println("Record not deleted");
pw.println("<html>");
```

```
pw.println("<body>");
PreparedStatement ps = con.prepareStatement("SELECT * FROM student");
ResultSet rs = ps.executeQuery();
pw.println("<h2>Student Details after deletion</h2><br>");
pw.println("");
pw.println("Roll NoName");
while (rs.next())
regno=rs.getString("reg_no");
name=rs.getString("name");
pw.println(""+regno+""+name+"");
pw.println("");
pw.println("<br>>");
PreparedStatement ps3 = con.prepareStatement("SELECT * FROM marks");
ResultSet rs1 = ps3.executeQuery();
pw.println("<h2>Marks Details after deletion</h2><br>");
pw.println("");
pw.println("Reg
NoCS8601CS8602CS8603CS8651
h>CS8691CS8075");
while (rs1.next())
regno=rs1.getString("reg_no");
m1=rs1.getInt(2);
m2=rs1.getInt(3);
m3=rs1.getInt(4);
m4=rs1.getInt(5);
m5=rs1.getInt(6);
m6=rs1.getInt(7);
pw.println(""+regno+""+m1+""+m2+""
"+m3+""+m4+""+m5+""+m6+"");
pw.println("");
pw.println("<br>>");
pw.println("</body>");
pw.println("</html>");
```

```
con.close();
}catch (Exception e)
{pw.println("Errorrrr!"+e.getMessage());}
}
}
UpdateServlet.java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
import java.sql.*;
public class UpdateServlet extends HttpServlet
String c,s,name,regno;
int s1,s2,s3,s4,s5,s6,i,j;
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
{
      res.setContentType("text/html");
      PrintWriter pw=res.getWriter();
      Class.forName("com.mysql.jdbc.Driver");
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root",
"vaishu");
String table_name = req.getParameter("tbl_name");
if (table_name.equals("student"))
regno = req.getParameter("t9");
name = req.getParameter("t10");
```

```
PreparedStatement ps1 = con.prepareStatement("UPDATE student SET
name=? WHERE reg_no=?;");
ps1.setString(1,name);
ps1.setString(2,regno);
j=ps1.executeUpdate();
else if (table_name.equals("marks"))
regno = req.getParameter("t9");
s1 = Integer.parseInt(req.getParameter("t11"));
s2 = Integer.parseInt(req.getParameter("t12"));
s3 = Integer.parseInt(req.getParameter("t13"));
s4 = Integer.parseInt(req.getParameter("t14"));
s5 = Integer.parseInt(req.getParameter("t15"));
s6 = Integer.parseInt(req.getParameter("t16"));
PreparedStatement ps2 = con.prepareStatement("UPDATE marks SET
sub1=?,sub2=?,sub3=?,sub4=?,sub5=?,sub6=? WHERE reg_no=?;");
ps2.setInt(1,s1);
ps2.setInt(2,s2);
ps2.setInt(3,s3);
ps2.setInt(4,s4);
ps2.setInt(5,s5);
ps2.setInt(6,s6);
ps2.setString(7,regno);
j=ps2.executeUpdate();
if(j==1)
      pw.println("Record updated");
else
      pw.println("Record not updated");
pw.println("<html>");
pw.println("<body>");
if (table_name.equals("student"))
PreparedStatement ps = con.prepareStatement("SELECT * FROM student");
ResultSet rs = ps.executeQuery();
```

```
pw.println("<h2>Student Details after updation</h2><br>");
pw.println("");
pw.println("Roll NoName");
while (rs.next())
regno=rs.getString("reg_no");
name=rs.getString("name");
pw.println(""+regno+""+name+"");
pw.println("");
pw.println("<br>>");
else{
PreparedStatement ps3 = con.prepareStatement("SELECT * FROM marks");
ResultSet rs1 = ps3.executeQuery();
pw.println("<h2>Marks Details after updation</h2><br>");
pw.println("");
pw.println("Reg
NoCS8601CS8602CS8603CS8651
h>CS8691CS8075");
while (rs1.next())
regno=rs1.getString("reg_no");
s1=rs1.getInt(2);
s2=rs1.getInt(3);
s3=rs1.getInt(4);
s4=rs1.getInt(5);
s5=rs1.getInt(6);
s6=rs1.getInt(7);
pw.println(""+regno+""+s1+""+s2+""+
s3+""+s4+""+s5+""+s6+"");
pw.println("");
pw.println("<br>>");
pw.println("</body>");
pw.println("</html>");
con.close();}
catch (Exception e)
```

<pre>{pw.println("Error updating!"+e);} }</pre>
OUTPUT:
← → C
Marklist Generation
Enter Roll No
Generate Marklist
Create Operation  Student Marks
Enter Roll No
Enter Name
Enter Marks in CS8601
Enter Marks in CS8602
Enter Marks in CS8603
Enter Marks in CS8651
Enter Marks in CS8691
Enter Marks in CS8075
Insert record
Domono on onetico
Remove operation  Enter Roll No Delete record
Delete lecold

—Update operation————————————————————————————————————
Student Marks
Enter Roll No
Enter Name
Enter Marks in CS8601
Enter Marks in CS8602
Enter Marks in CS8603
Enter Marks in CS8651
Enter Marks in CS8691
Enter Marks in CS8075
Update Record
Display operation
View Database

## **Student Details**

Roll No	Name		
312217104156	Shivani		
312217104181	Vaishali		
312217104702	Mounika		
312217104180	Uma		
312217104160	Sneha		
312217104100	Abi		

## **Marks Details**

Reg No	CS8601	CS8602	CS8603	CS8651	CS8691	CS8075
312217104181	80	85	90	95	100	75
312217104702	75	85	95	100	70	65
312217104180	82	61	79	93	50	88
312217104160	70	79	70	20	80	90
312217104156	71	88	52	92	70	64
312217104130	100	50	50	50	50	50

# **Course Details**

Subject Code	Subject Name
CS8601	Mobile Computing
CS8602	Compiler Design
CS8603	Distributed Systems
CS8651	Internet Programming
CS8691	Artificial Intelligence
CS8075	DWDM



Generate Marklist

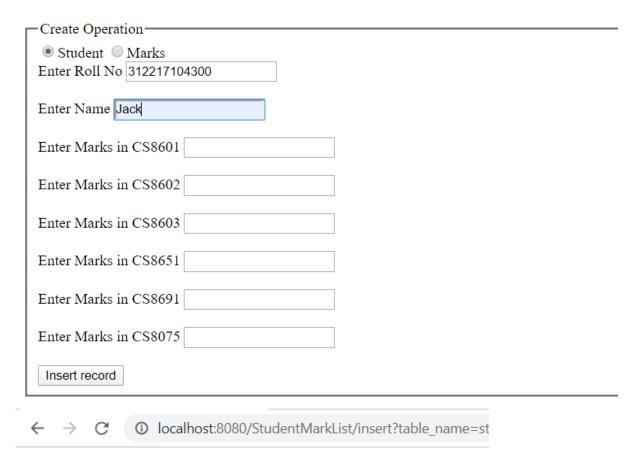
Enter Roll No 312217104181

#### MarkList

Roll number: 312217104181

Name: Vaishali

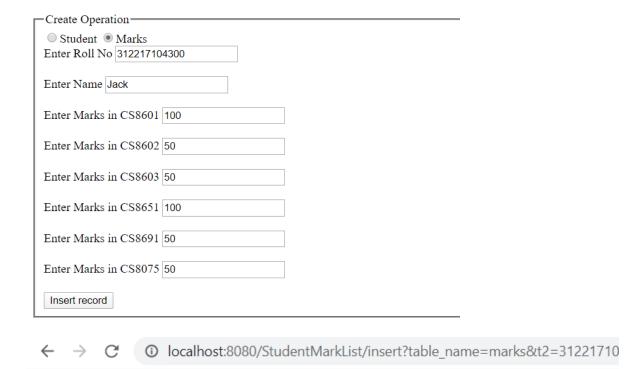
Subject Code	Subject Name	Marks
CS8601	Mobile Computing	80
CS8602	Compiler Design	85
CS8603	Distributed Systems	90
CS8651	Internet Programming	95
CS8691	Artificial Intelligence	100
CS8075	DWDM	75



Record inserted

## **Student Details after insertion**

Roll No	Name			
312217104156	Shivani			
312217104181	Vaishali			
312217104702	Mounika			
312217104180	Uma			
312217104160	Sneha			
312217104100	Abi			
312217104300	Jack			



Record inserted

# Marks Details after insertion

Reg No	CS8601	CS8602	CS8603	CS8651	CS8691	CS8075
312217104181	80	85	90	95	100	75
312217104702	75	85	95	100	70	65
312217104180	82	61	79	93	50	88
312217104160	70	79	70	20	80	90
312217104156	71	88	52	92	70	64
312217104130	100	50	50	50	50	50
312217104300	100	50	50	100	50	50



 $\leftarrow \quad \rightarrow \quad \textbf{C} \quad \textcircled{0} \quad \text{localhost:} 8080/\text{StudentMarkList/delete?} t8 = 312217104300$ 

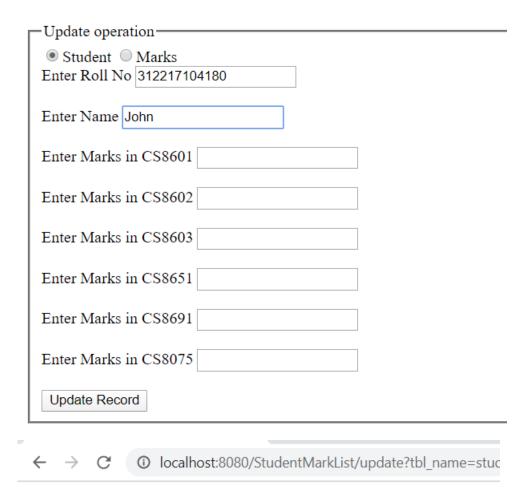
Record deleted

#### **Student Details after deletion**

Roll No	Name			
312217104156	Shivani			
312217104181	Vaishali			
312217104702	Mounika			
312217104180	Uma			
312217104160	Sneha			
312217104100	Abi			

## Marks Details after deletion

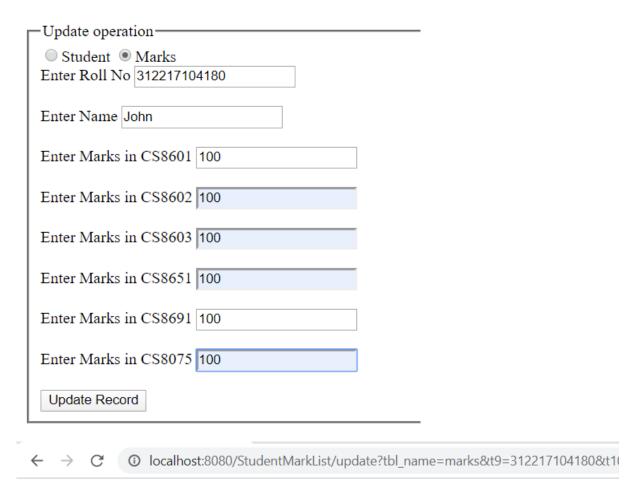
Reg No	CS8601	CS8602	CS8603	CS8651	CS8691	CS8075
312217104181	80	85	90	95	100	75
312217104702	75	85	95	100	70	65
312217104180	82	61	79	93	50	88
312217104160	70	79	70	20	80	90
312217104156	71	88	52	92	70	64
312217104130	100	50	50	50	50	50



Record updated

# Student Details after updation

Roll No	Name
312217104156	Shivani
312217104181	Vaishali
312217104702	Mounika
312217104180	John
312217104160	Sneha
312217104100	Abi



Record updated

# Marks Details after updation

Reg No	CS8601	CS8602	CS8603	CS8651	CS8691	CS8075
312217104181	80	85	90	95	100	75
312217104702	75	85	95	100	70	65
312217104180	100	100	100	100	100	100
312217104160	70	79	70	20	80	90
312217104156	71	88	52	92	70	64
312217104130	100	50	50	50	50	50