



Java Servlet and JSP.

Subject Name: Advanced Internet Programming

Subject Code: CAP716/20CAP726

UID: 20MCA1232

Section/Group: 2A

Semester: 1

Date of Performance: 16/11/2020

Experiment No. 2.2:

Create Servlet based application to store and retrieve data from database.

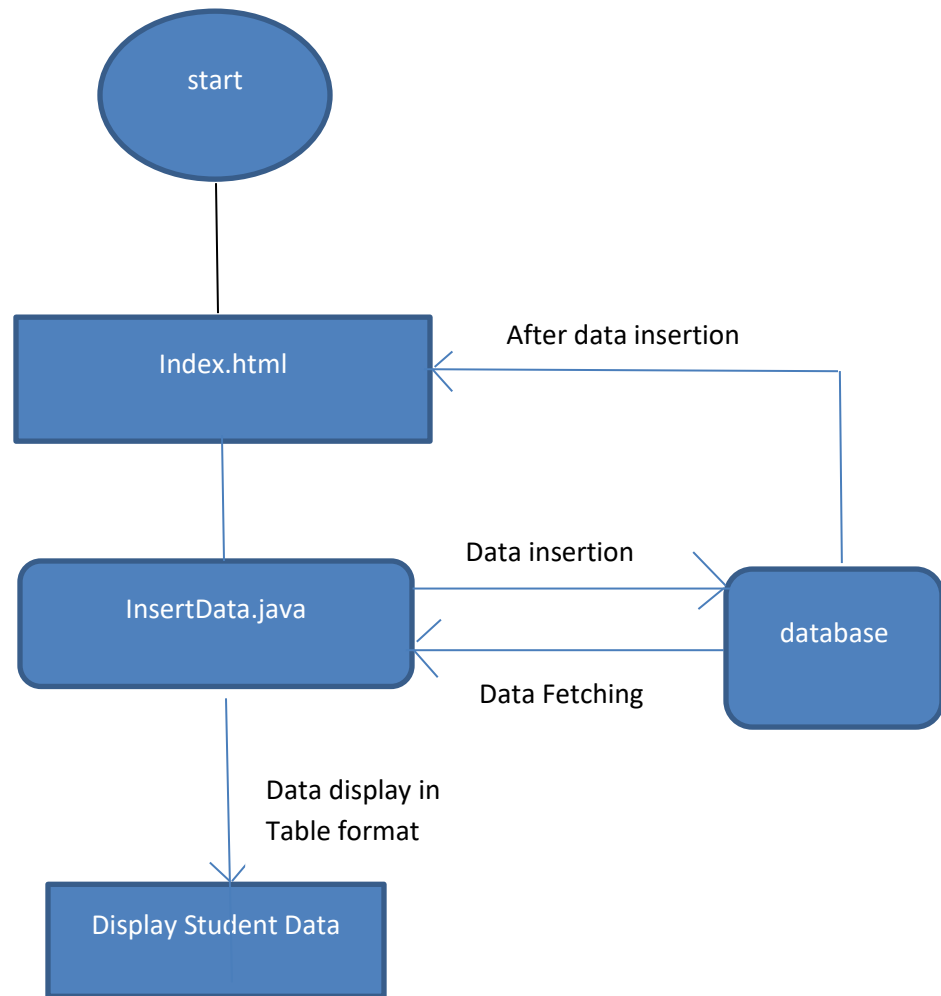
Add only four columns of table:

uid, name, class, age

Note: Retrieve all data into table structure(<table>) along with serial number.

Sr.No.	UID	Name	Class	Age
--------	-----	------	-------	-----

1. Algorithm/Flowchart :



2. Dataset: UID:20MCA1232 | Name:Vivek | class:2B | Age:20

3. Code for experiment/practical:

Index.html

```
<!DOCTYPE html>
```

```
<!--
```

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To change this template file, choose Tools | Templates

and open the template in the editor.

```
-->
```

```
<html>
```

```
<head>
```

```
<title>Insert Form</title>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
</head>
```

```
<body>
```

```
<h3 align="center">Insert</h3>
```

```
<form action="InsertData" method="post" id="insert"></form>
```

```
<table width="650" height="70" border="0" align="center">
```

```
<tr>
```

```
<td>
```

```
<label for="uid" form="insert">uid</label>
```

```
<input type="text" name="uid" placeholder="enter uid" form="insert">
```



<label for="name" form="insert">name</label>

<input type="text" name="name" placeholder="enter name" form="insert">

<label for="class" form="insert">class</label>

<input type="text" name="class" placeholder="enter class" form="insert">

<center>

<label for="age" form="insert">age</label>

<input type="number" name="age" placeholder="enter age" form="insert">

<button type="submit" name="submit" value="insert" form="insert" >submit</button>

</center>

</td>

</tr>

<tr>

<td>

<label for="textDislay" form="insert">view data</label> <button type="submit"
name="submit" form="insert" value="display" >display Data</button>

</td>

</tr>

</table>

</body>

</html>

InsertData.java(Servlet)

```
/*
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 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author Charlie
 */
public class InsertData extends HttpServlet {

    PrintWriter out=null;
    Connection conn=null;
    RequestDispatcher rd=null;

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        try{
            out=response.getWriter();
            Class.forName("com.mysql.jdbc.Driver");
```

```
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/servlet","root","");
String type=request.getParameter("submit");
if(type.equals("insert"))
{
    String uid=request.getParameter("uid");
    String name=request.getParameter("name");
    String classData=request.getParameter("class");
    String age=request.getParameter("age");
    String query="insert into multiData(uid,name,class,age) values(?,?,?,?)";
    PreparedStatement preparedStmt = conn.prepareStatement(query);
    preparedStmt.setString(1,uid);
    preparedStmt.setString(2,name);
    preparedStmt.setString(3,classData);
    preparedStmt.setInt(4,Integer.parseInt(age));
    int i=0;
    try{
        i=preparedStmt.executeUpdate();
    }
    catch(Exception e)
    {
        System.out.println(e.toString());
    }
    System.out.println("result"+i);
    if(i==0)
    {
        out.println("<script>alert('data insertion failed')</script>");
        request.getRequestDispatcher("./index.html").include(request, response);
    }
    else
    {
        out.println("<script>alert('data insertion successful')</script>");
        request.getRequestDispatcher("./index.html").include(request, response);
    }
}
else if(type.equals("display"))
{
    String query="select * from multidata";
```

```
Statement stmt=conn.createStatement();
ResultSet rst=stmt.executeQuery(query);
response.setContentType("text/html;charset=UTF-8");
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet Welcome</title>");
out.println("</head>");
out.println("<body>");
out.println("<h4 align='center'>Display Data</h4>");
out.println("<center>");
out.println("<table border='1'>");
out.println("<tr><th>serial  
no</th><th>uid</th><th>name</th><th>class</th><th>age</th></tr>");

int i=0;
while(rst.next())
{
    i++;
    out.println("<tr>");
    out.println("<td>"+i+"</td>");
    out.println("<td>"+rst.getString(1)+"</td>");
    out.println("<td>"+rst.getString(2)+"</td>");
    out.println("<td>"+rst.getString(3)+"</td>");
    out.println("<td>"+rst.getInt(4)+"</td>");
    out.println("</tr>");

}
out.println("</center>");
out.println("<br><button type='submit'><a href='\"./index.html\"' style='\"text-  
decoration: none; color: black;\" >insertData</a></button>");
System.out.println("count"+i);
out.println("</body>");
out.println("</html>");
}
}
catch(Exception e)
```

```
{  
    System.out.println(e.getMessage());  
}  
}
```

```
}
```

4. Result/Output/Writing Summary:

Index.html

Insert

uid

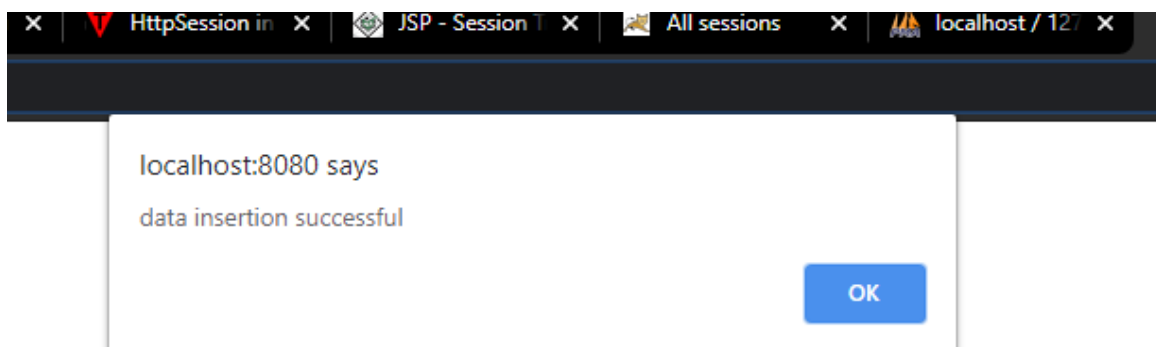
name

class

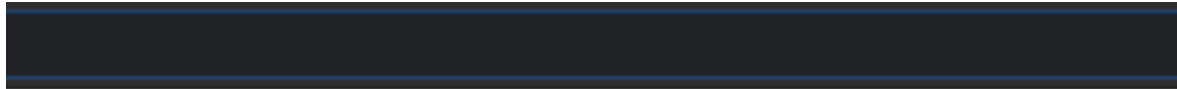
age

view data

Successful insertion of Data Message



InsertData.java



Display Data

insertData				
serial no	uid	name	class	age
1	20MCA1232	vivek	2B	20

Database:

+ Options			
uid	name	class	age
20MCA1232	vivek	2B	20



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Learning outcomes (What I have learnt):

1.Java servlets

2.MySql

3.JDBC

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance (Pre Lab Quiz)		5
2.	Worksheet		10
3.	Post Lab Quiz		5