

### Experiment -3.2

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**Branch:** CSE

**Semester:** 4

**Subject Name:** PBIJ

**UID:** 19BCS4520

**Section/Group** IOT/A

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**Subject Code:** CSP-296

#### 1. Aim/Overview of the practical:

Create an application for Online Auction using HTML and Servlet. Use the database to store and retrieve records.

#### 2. Task to be done:

1 HTML

2 Servlet

3 database to store and retrieve records

#### 3. Apparatus(For applied/experimental sciences/materials based labs):

NetBeans

#### 4. Algorithm/Flowchart (For programming based labs):

Step1: Create HTML by using web-application Netbeans

Step2: code for servlet

Step 3: connect the database

Step4 exit

### 5. Theme/Interests definition( For creative domains):

Servlet technology is used to create a web application (resides on the server-side and generates a dynamic web page).

Servlet technology is robust and scalable because of the java language. Before Servlet, CGI (Common Gateway Interface) scripting language was common as a server-side programming language. However, there were many disadvantages to this technology. We have discussed these disadvantages below.

A servlet is an extension to a server that enhances the server's functionality. Web servers display documents written in HyperText Markup Language (HTML) and respond to user requests using the HyperText Transfer Protocol (HTTP).

NetBeans IDE comes bundled with support for the MySQL RDBMS. Before you can access the MySQL Database Server in NetBeans IDE, you must configure the MySQL Server properties.

1. Right-click the Databases node in the Services window and choose Register MySQL Server to open the MySQL Server Properties dialog box
2. Confirm that the server hostname and port are correct.  
Notice that the IDE enters localhost as the default server hostname and 3306 as the default server port number.
3. Enter the Administrator user name (if not displayed).

### 6. Steps for experiment/practical:

1. Auction.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

---

<title>Insert title here</title>

</head>

<body>

<form action="Auction\_data" method="post">

Name:<input type="text" name="userName"/><br/><br/>

Product:

<select name="productName">

<option>Dell</option>

<option>HP</option>

<option>Sony</option>

<option>Lenevo</option>

</select>

<br/><br/>

Bid Value:<input type="text" name="bidValue"/><br/><br/>

<input type="submit" value="register"/>

</form>

</body>

</html>

## 2. Auction\_data.java

---

```
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.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class Auction_data extends HttpServlet {

    private static final long serialVersionUID = 1L;

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

    {

        response.setContentType("text/html");

        PrintWriter out = response.getWriter();
```

```
String n=request.getParameter("userName");  
  
String p=request.getParameter("productName");  
  
int e=Integer.parseInt(request.getParameter("bidValue"));
```

```
try{
```

```
Class.forName("com.mysql.jdbc.Driver");
```

```
Connection
```

```
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/auction_data?zeroDateTimeBehavior=convertToNull","root","");
```

```
Statement stmt=con.createStatement();
```

```
PreparedStatement ps=con.prepareStatement("insert into user  
values(?,?,?)");
```

```
ps.setString(1,n);
```

```
ps.setString(2,p);
```

```
ps.setInt(3,e);
```

```
int i=ps.executeUpdate();
```

```
if(i>0)
```

---

```
out.print("You are successfully registered...");
```

```
UName="+n+""");
```

```
ResultSet rs=stmt.executeQuery("select * from user where
```

```
"+rs.getInt(3));
```

```
while(rs.next())
```

```
out.println("<br>Your data is:"+rs.getString(1)+" "+rs.getString(2)+"
```

```
con.close();
```

```
}catch (Exception e2)
```

```
{System.out.println(e2);}
```

```
out.close();
```

```
}
```

```
}
```

## 7. Observations/Discussions(For applied/experimental sciences/materials based labs):



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```
WebappCreator - Windows for x64
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Source History
<!--DOCTYPE html-->
1
2
3 <html>
4
5 <head>
6
7 <meta charset="UTF-8" />
8
9 <title>Insert title here</title>
10
11 </head>
12
13 <body>
14
15 <form action="Action_url" method="post">
16
17
18 Name:<input type="text" name="userName"/><br/><br/>
19
20 Product:
21
22 <select name="productName">
23
24 <option>Dell</option>
25
26 <option>HP</option>
27
28 <option>Sony</option>
29
30 <option>Lenovo</option>
31
32 </select>
33
34 <br/><br/>
35
36 Max Value:<input type="text" name="maxValue"/><br/><br/>
37
38 <input type="submit" value="register"/>
39
40 </form>
41
42 </body>
43
44 </html>
```

```

1  import java.io.IOException;
2
3  import java.io.PrintWriter;
4
5  import java.sql.Connection;
6
7  import java.sql.DriverManager;
8
9  import java.sql.PreparedStatement;
10
11 import java.sql.ResultSet;
12
13 import java.sql.SQLException;
14
15 import javax.servlet.ServletException;
16
17 import javax.servlet.http.HttpServlet;
18
19 import javax.servlet.http.HttpServletRequest;
20
21 import javax.servlet.http.HttpServletResponse;
22
23
24 public class Auction_data extends HttpServlet {
25
26     private static final long serialVersionUID = 1L;
27
28
29     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
30     {
31
32         response.setContentType("text/html");
33         PrintWriter out = response.getWriter();
34
35
36         String s=request.getParameter("username");
37         String p=request.getParameter("password");
38         int a=Integer.parseInt(request.getParameter("id"));
39     }
40 }

```

8. Percentage error (if any or applicable):

no

9. Calculations/ Chemical Reactions / Theorems /Formulas used etc :



no

## 10. Result/Output/Writing Summary:



Insert Title here

Name: Pankaj

Product: Dell

Bid Value: 50000

register



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**You are successfully registered**

**Your data is Parikshit Dell 60000**



**11. Graphs (If Any): Image /Soft copy of graph paper to be attached here**

no

**Learning outcomes (What I have learnt):**

1. Learned about the HTML and servlet in java.
2. Establishing a connection between Java and SQL.
3. How Connect database .
4. Finding the errors in syntax.
5. Finding the errors in the connection statement.

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			