

SSN COLLEGE OF ENGINEERING, KALAVAKKAM

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Internet Programming Lab – CS8661

Programming Assignment 19 - Implementation of Opinion polling using Webservice

---

Write web service **Opinion** to connect with the database to retrieve the opinion about any given product. Write a web service client to consume the **Opinion** service to get the opinion for the given product. Create a database product with the details of the product, namely, its id, name and the quality. The quality attribute can take the values of *Good* or *Fair*. Populate the table with 20 records. Refer the following snapshot to design web service client.

**CODE:**

**Opinionpollwebservice.java:**

```
package com.opinion;
```

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.xml.ws.WebService;
import javax.xml.ws.WebMethod;
import javax.xml.ws.WebParam;
```

```
@WebService(serviceName = "OpinionPollWebSevice")
```

```
public class OpinionPollWebSevice {
```

```
    @WebMethod(operationName = "hello")
```

```
    public String hello(@WebParam(name = "name") String txt) {
        return "Hello " + txt + " !";
    }
}
```

```
    @WebMethod(operationName = "opinionaccess")
```

```
    public String opinionaccess(@WebParam(name = "name") String name) {
```

```
        try
```

```
        {
```

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

```
            Connection con =
```

```
            DriverManager.getConnection("jdbc:mysql://localhost:3306/user","root","vaishu");
```

```
            PreparedStatement ps = con.prepareStatement("select quality from product where name = ?");
```

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

```

        ResultSet rs = ps.executeQuery();
        rs.next();
        String qual = rs.getString(1);
        String res = "The customer's opinion for the product "+name+" is "+qual;
        return res;
    }
    catch (Exception e)
    {
        System.out.println(e);
    }
    return null;
}
}

```

### Index.html:

```

<!DOCTYPE html>
<html>
    <head>
        <title>Opinion Polling System</title>
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <script>
function load()
{
    var v = document.getElementById("items").value;
    var xhttp = new XMLHttpRequest();
    xhttp.onreadystatechange = function()
    {
        if (this.readyState==4 && this.status==200)
        {
            document.getElementById("d1").innerHTML = this.responseText;
        };
        var url="index.jsp?val="+v;
        xhttp.open("GET",url,true);
        xhttp.send();

    }

}
</script>
</head>
<body>

    <h1 style="text-align:center">Opinion Polling System</h1>
    <br><br>
    <form style="text-align: center" action="index.jsp">
    <select name="items" id="items">
    <option value="Bournvita">Bournvita</option>
    <option value="Horlicks">Horlicks</option>

```

```

<option value="Boost">Boost </option>
<option value="Complan"> Complan </option>

</select>
<br><br>
<button type="button" onclick="load()">Get Opinion</button>

</form>
<br><br>
<div id="d1" style="text-align: center;"></div>
<br>
</body>
</html>

```

### Index.jsp:

```

<% @page contentType="text/html" pageEncoding="UTF-8"%>
<% @ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>

<c:set var="n" value="${param.val}"/>

<%-- start web service invocation --%>
<%

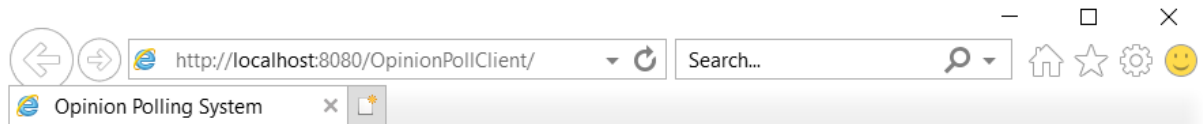
try {
    com.opinion.OpinionPollWebSevice_Service service = new
com.opinion.OpinionPollWebSevice_Service();
    com.opinion.OpinionPollWebSevice port = service.getOpinionPollWebSevicePort();
    java.lang.String name = (String)pageContext.getAttribute("n");
    System.out.println("Name is: "+name);
    // TODO process result here
    java.lang.String result = port.opinionaccess(name);
    System.out.println("Result is: "+result);
    out.println(result);
} catch (Exception ex) {
    // TODO handle custom exceptions here
    out.println("ERROR");
}

%>
<%-- end web service invocation --%>

```

```
</body>
</html>
```

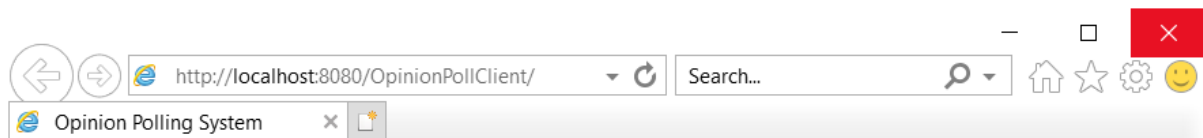
## OUTPUT:



# Opinion Polling System

Bournvita ▼

Get Opinion

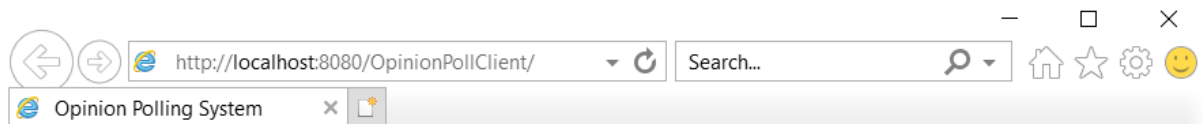


# Opinion Polling System

Bournvita ▼

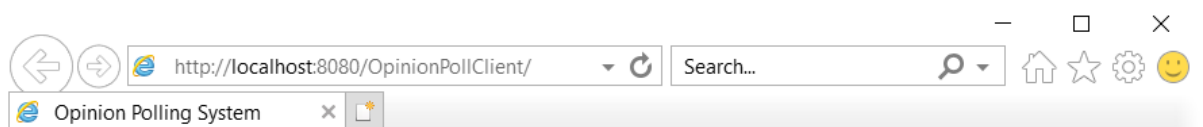
Get Opinion

The customer's opinion for the product Bournvita is Good



# Opinion Polling System

The customer's opinion for the product Bournvita is Good



# Opinion Polling System

The customer's opinion for the product Boost is Fair

```
MySQL 5.5 Command Line Client
mysql> use user;
Database changed
mysql> insert into product values (1,'Bournvita','Good');
Query OK, 1 row affected (0.07 sec)

mysql> insert into product values(1,'Horlicks','Fair');
Query OK, 1 row affected (0.05 sec)

mysql> insert into product values(1,'Boost','Fair');
Query OK, 1 row affected (0.04 sec)

mysql> insert into product values(1,'Complan','Good');
Query OK, 1 row affected (0.04 sec)

mysql> select * from product;
+-----+-----+-----+
| id | name | quality |
+-----+-----+-----+
| 1 | Horlicks | Fair |
| 1 | Boost | Fair |
| 1 | Complan | Good |
| 1 | Bournvita | Good |
| 1 | Bournvita | Good |
| 1 | Horlicks | Fair |
| 1 | Boost | Fair |
| 1 | Complan | Good |
+-----+-----+-----+
8 rows in set (0.00 sec)

mysql>
```