

SSN College of Engineering,
Kalavakkam Department of Computer
Science and Engineering VI Semester
- CSE 'C'
UCS1611 INTERNET PROGRAMMING LAB

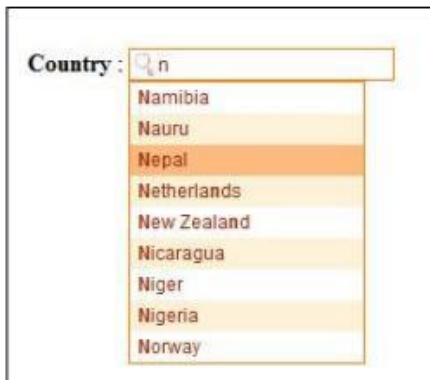
Exercise 6: Autocomplete Feature using AJAX

ExpDate:14/04/2021

Done by: B.Vignesh CSE 6C 185001193

Learning Objective:

Develop an AJAX program that implements the Autocomplete feature for filling the country names as given below:



For Example, when N is entered all the names of the country starting with “N” should be listed in drop-down list for user’s easy selection. When “Na” is typed only “Namibia” and “Nauru” should be listed for selection. Use Servlet for server side scripting. Use MySQL database to store the countries names.

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Code:

Index.html

```
<!DOCTYPE html>
<html>

<head>
    <title>Profile servlet using http sessions</title>
    <link rel="stylesheet" type="text/css"
href="style/style1.css" />
</head>

<body style="background-color: cyan">
    <div class="form">
        <h1>Country display</h1>
        <br />
        <br />
        <label for="uname"><b>Country: </b></label>
        <input type="text" id="country" name="country"
oninput="CountriesList()" />
        <br />
        <div class="countries" id="countries"></div>
        <br />
        <script>
            function CountriesList() {
                var name =
document.getElementById("country").value;
                var url = "Country?country=" + name;
                var xhttp;
                xhttp = new XMLHttpRequest();
                xhttp.onreadystatechange = function() {
                    if (this.status == 200 && this.readyState
== 4) {
                        var val = xhttp.responseText;

document.getElementById("countries").innerHTML = val;
                    }
                };
                xhttp.open("GET", url, true);
                xhttp.send();
            }

            function chooseCountry() {
```

```

        document.getElementById("country").value =
event.target.value;
        CountriesList();
    }
</script>
</div>
</body>

</html>

```

Country.java:

```

import jakarta.servlet.http.*;
import jakarta.servlet.*;
import java.io.*;
import java.sql.*;

public class Country extends HttpServlet {
    public void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/countr
ydb","root","2727");
            PreparedStatement stmt =
conn.prepareStatement("SELECT * FROM countries WHERE cname LIKE
?");

            String countryname =
request.getParameter("country");

            if(countryname!=""){
                stmt.setString(1,countryname+"%");
                ResultSet rs = stmt.executeQuery();
                while(rs.next()) {
                    out.println("<option style=\"width:
150px;font-size: medium;background-color: orange;font-weight:
bold;padding: 5px;margin-bottom: 3px;margin-top: 3px;display:

```

```

block;margin-left: 46%;margin-right: auto;border-radius:
4px;text-align: left;"  onClick=\"chooseCountry()\">" +
rs.getString("cname") + "</option>");
        }
    }
}

    catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

Web.xml:

```

<web-app>
    <servlet>
        <servlet-name>Country</servlet-name>
        <servlet-class>Country</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>Country</servlet-name>
        <url-pattern>/Country</url-pattern>
    </servlet-mapping>
</web-app>

```

Style1.css:

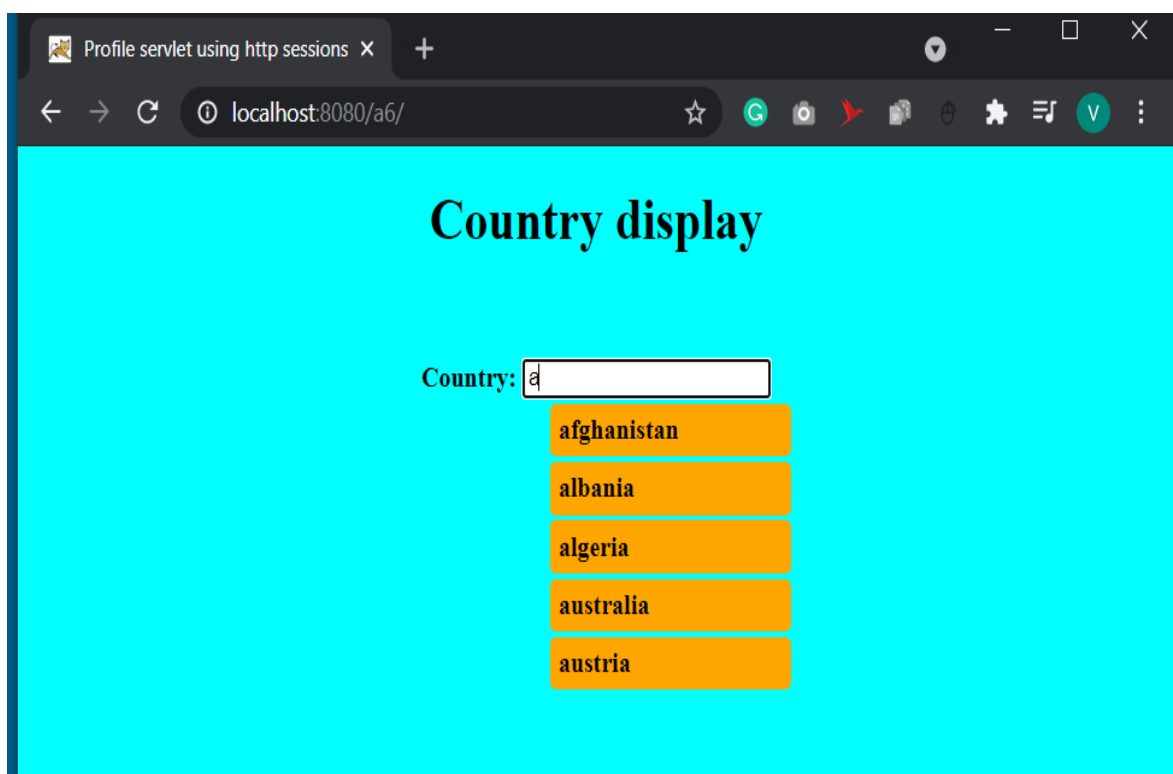
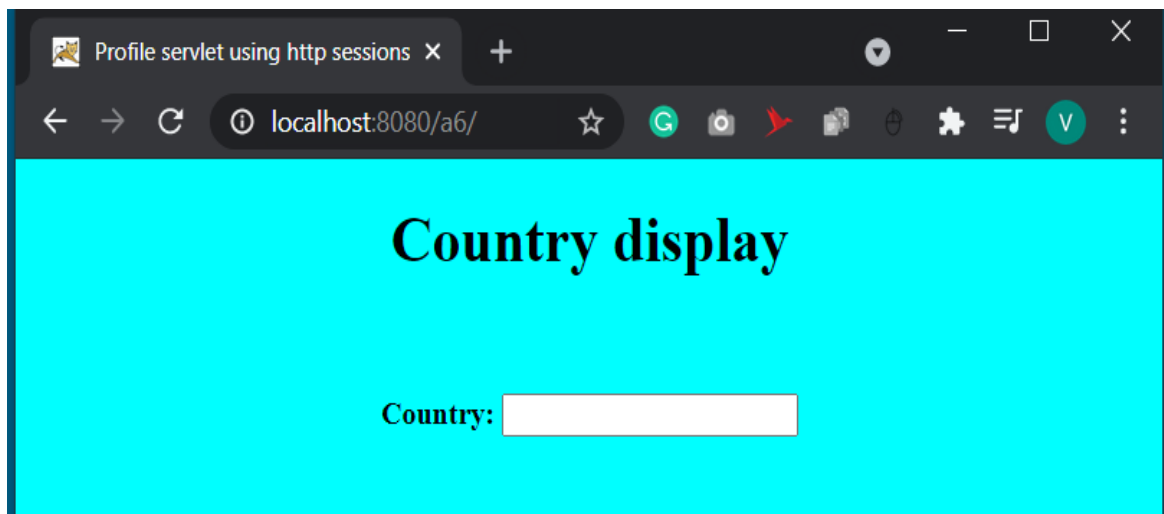
```

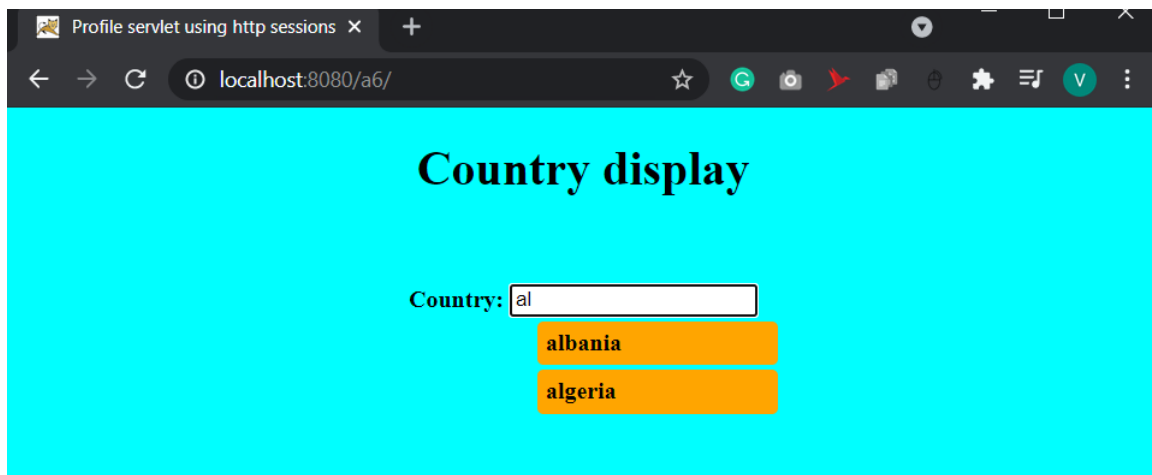
div.form {
    display: block;
    text-align: center;
}

form {
    display: inline-block;
    margin-left: auto;
    margin-right: auto;
    text-align: left;
}

```

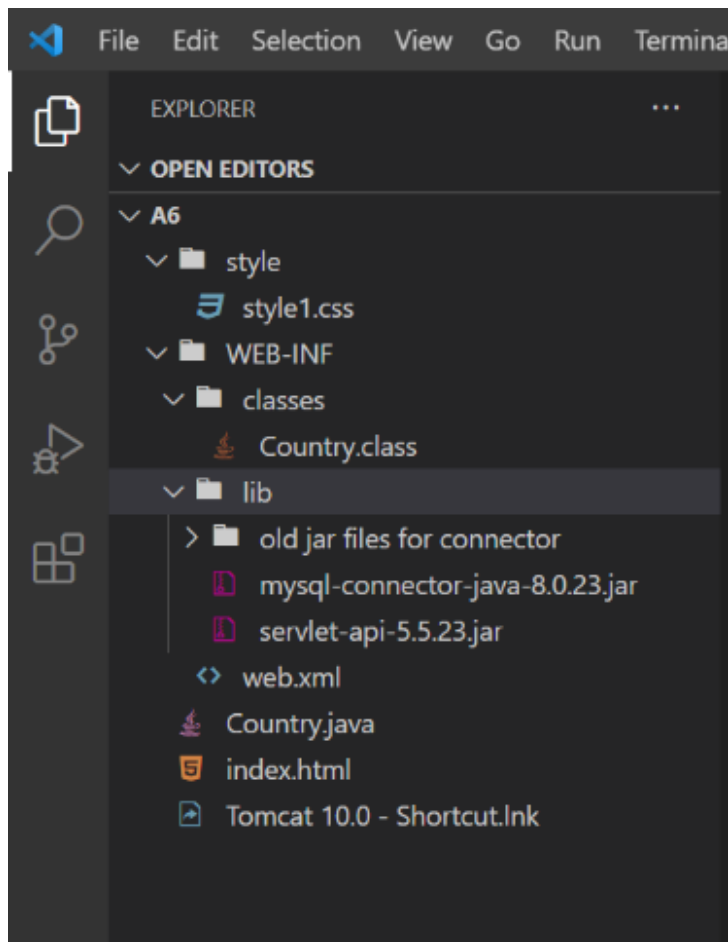
Output Screenshots:





```
mysql> use countrydb;
Database changed
mysql> select * from countries;
+-----+
| cname |
+-----+
| india |
| afghanistan |
| albania |
| algeria |
| australia |
| austria |
| bahamas |
| bahrain |
| indonesia |
| iran |
| malaysia |
| maldives |
| mauritius |
| niger |
| nigeria |
+-----+
15 rows in set (0.00 sec)
```

Directory Structure:



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