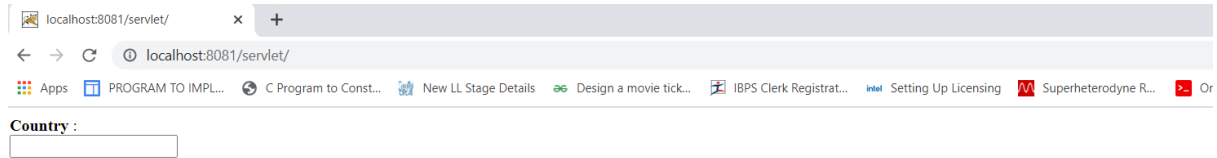


Exercise – 8

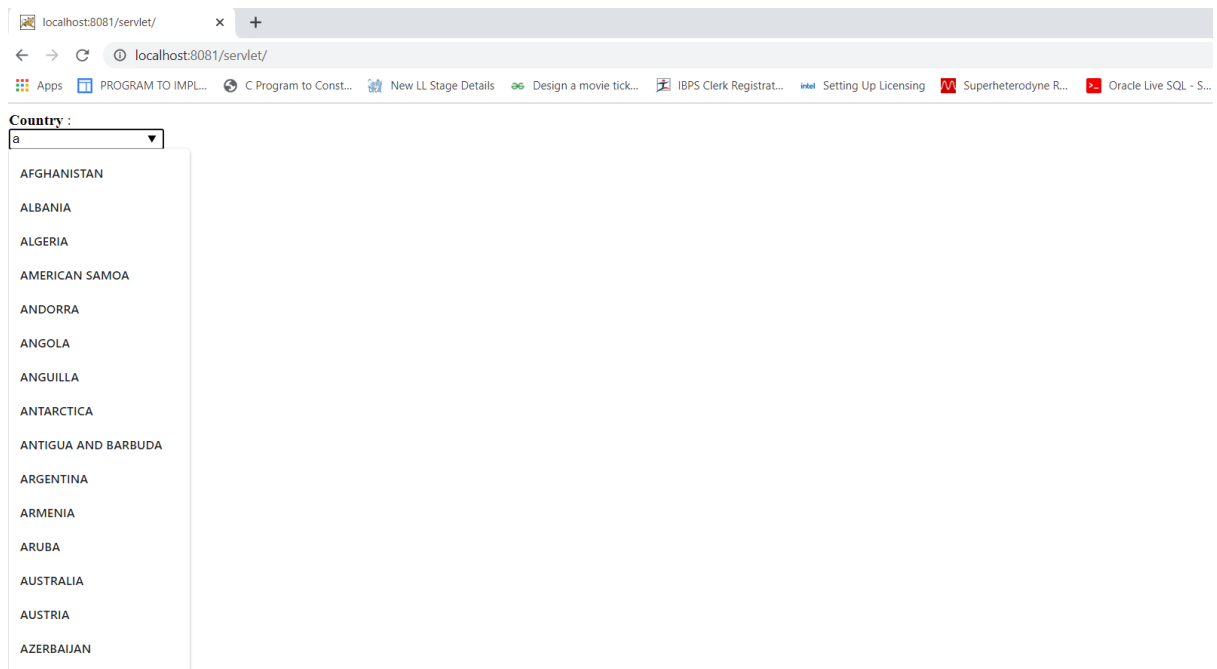
Autocomplete Feature using AJAX

Harshini S-185001058

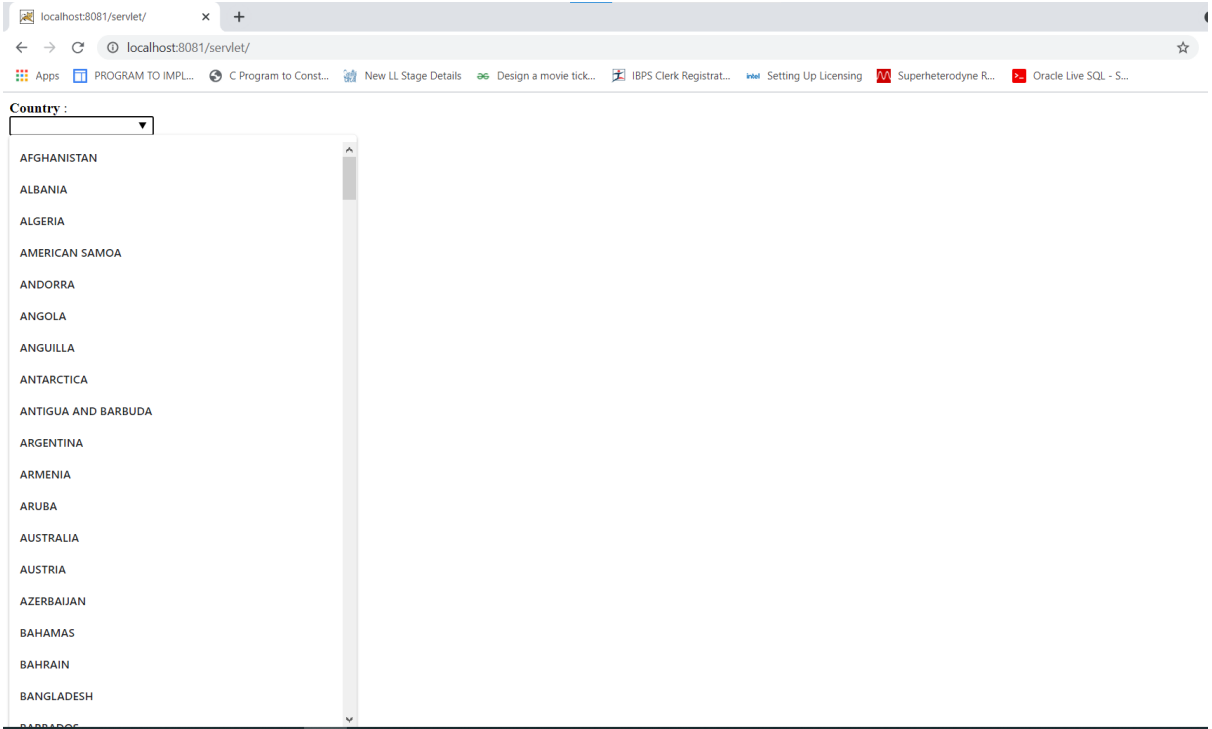
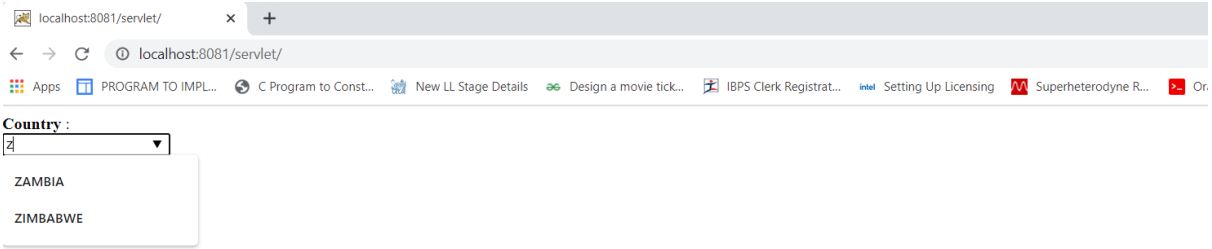
Output And Code:



A screenshot of a web browser window. The address bar shows 'localhost:8081/servlet/'. Below the address bar, there is a search bar with the text 'Country :'. The search bar is empty and has a light gray border.



A screenshot of a web browser window. The address bar shows 'localhost:8081/servlet/'. Below the address bar, there is a search bar with the text 'Country :'. The search bar is open, showing a dropdown menu with a list of countries starting with 'a'. The list includes: AFGHANISTAN, ALBANIA, ALGERIA, AMERICAN SAMOA, ANDORRA, ANGOLA, ANGUILLA, ANTARCTICA, ANTIGUA AND BARBUDA, ARGENTINA, ARMENIA, ARUBA, AUSTRALIA, AUSTRIA, and AZERBAIJAN.



Code

web.xml

```
<web-app>
    <servlet>
        <servlet-name>country</servlet-name>
        <servlet-class>AjaxCountryList</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>country</servlet-name>
        <url-pattern>/AjaxCountryList</url-pattern>
    </servlet-mapping>

</web-app>
```

index.html

```
<!doctype html>
<html>
<head>
<script>
var request;
function sendInfo(value)
{
/*var v=document.myform.t1.value; */
var url="AjaxCountryList?val="+value;

if(window.XMLHttpRequest){
request=new XMLHttpRequest();
}
else if(window.ActiveXObject){
request=new ActiveXObject("Microsoft.XMLHTTP");
}

try
{
request.onreadystatechange=getInfo;
request.open("GET",url,true);
request.send();
}
catch(e)
{
alert("Unable to connect to server");
}
}
```

```

function getInfo(){
if(request.readyState==4){
var val=request.responseText;
document.getElementById('myspan').innerHTML=val;
}
}

</script>
</head>
<body>
<form name="myform">
<b>Country</b> :<br>
<input list="listc" type="text" id="country" name="country"
onkeyup="sendInfo(this.value);" />
</form>

<span id="myspan"> </span>

</body>
</html>

```

AjaxCountryList.java

```

import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
import java.util.*;
public class AjaxCountryList extends HttpServlet
{
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
IOException,ServletException
    {
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        String query = (String)req.getParameter("val");
        Connection conn=null;
        try{
            String url="jdbc:mysql://localhost:3306/sample";
            String user="root";
            String password="Life.123#";
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn=DriverManager.getConnection(url,user,password);

```

```

        String msg="select name from country where name like
"+query+"%";
        PreparedStatement st=conn.prepareStatement(msg);
        ResultSet ress = st.executeQuery();
        out.print("<datalist id=\"listc\">");
        while(ress.next())
        {
            out.print("<option value=\""+ress.getString(1)+"\">");
        }
        out.close();
        ress.close();
        st.close();

    }
    catch(SQLException se)
    {
        se.printStackTrace();
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
    finally{
        try{
            if(conn!=null)
            {
                conn.close();
                out.close();
            }
        }
        catch(SQLException se)
        {
            se.printStackTrace();
        }
    }

}
}

```