

UCS1611---Internet Programming Lab

Exercise 6: Autocomplete Feature using AJAX

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LEARNING OBJECTIVES:

Develop an AJAX program that implements the Autocomplete feature for filling the country names.

INDEX.HTML:

```
<!DOCTYPE html>
<html lang=en>
<head>
  <meta charset ="utf-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">
  <title>Autocomplete Feature</title>
  <style type="text/css">
    body {
      text-align: center;
      justify-content: center;
      align-content:center;
      background-color: #FFF8DC;
    }
    div {
      align-content: center;
    }
    h1{
      text-align:center;
      margin-top: 120px;
    }

  </style>
</head>
<body>
```

```

<h1>Autocomplete Feature using Ajax</h1>
<div id = "select">
    Enter Country
    <input type="text" id = "country" name="country" list =
"countries" onkeyup = "getCountry()"/>
    <datalist id = "countries">
    </datalist>
</div>
<script>
    function fetch(country){
        var request = new XMLHttpRequest();
        var URL = "country?country="+country;
        request.onreadystatechange = function(){
            if(this.readyState == 4 && this.status == 200) {
                var val = request.responseText;
                document.getElementById("countries").innerHTML =
val;
            }
        };
        request.open('GET', URL, true);
        request.send();
    }
    function getCountry(){
        var country =
document.getElementById("country").value;
        fetch(country);
    }
</script>
</body>
</html>

```

COUNTRY.JAVA:

```

import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.sql.*;
public class country extends HttpServlet{

```

```

    public void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException{
        String JDBC_DRIVER = "com.mysql.jdbc.Driver";
        String DB_URL= "jdbc:mysql://localhost:3306/country";
        String USER ="root";
        String PASS="vysh";
        try{
            response.setContentType("text/html");
            PrintWriter pw = response.getWriter();
            Connection conn =
DriverManager.getConnection(DB_URL,USER,PASS);
            String country_name = request.getParameter("country");
            String search = "Select country from countries where
country like '"+country_name+"%' ";
            Statement stmt = conn.createStatement();
            ResultSet rs = stmt.executeQuery(search);
            while(rs.next()){
                String country = rs.getString("country");
                pw.println("<option
name='"+country+"'>" +country+"</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>

```

```
</servlet-mapping>
</web-app>
```

DATABASE SCREENSHOT:

```
mysql> desc countries;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| country | varchar(255) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.17 sec)

mysql> select * from countries;
+-----+
| country |
+-----+
| Namibia |
| Nepal   |
| Nauru    |
| Netherlands |
| NewZealand |
| Nicaragua |
| Niger    |
| Nigeria  |
| Norway   |
| United kingdom |
| Britain  |
| Spain    |
| Switzerland |
| South Africa |
| Sudan    |
| South Korea |
| South America |
+-----+
17 rows in set (0.19 sec)
```

OUTPUT SCREENSHOTS:



