

Department of Computer Science and Engineering

S.G.Shivanirudh , 185001146, Semester VI

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UCS1601 - Internet Programming

Assignment 2: JavaScript

Objective:

Install JDK, Tomcat server. Deploy a servlet program. Write the servlet program to read username, email-id. Transmit it to the server. The server displays a table for username and email.

Code:

HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <title>Simple Servlet Program</title>
```

```

5     <meta charset="utf-8">
6     <link rel="stylesheet" href="styles.css">
7 </head>
8
9 <body>
10    <h1>Welcome to Tomcat Servlet!</h1>
11    <hr><br>
12    <form action="servlet/Register" method="GET" action="echo
13    ">
14        <input type="text" name="uname" placeholder="John Doe
15        "><br><br>
16        <input type="email" name="email" placeholder="
17        johndoe@example.com"><br><br>
18        <br><br>
19        <input type="submit" value="Register">
20        <input type="reset" value="Clear">
21    </form>
22 </body>
23 </html>

```

CSS:

```

1 body{
2     background-color: azure;
3 }
4
5 *{
6     font-size: 20px;
7     font-family: "Times New Roman", Times, serif;
8 }
9
10 h1{
11     font-size: 35px;
12     text-align: center;
13     color: blue;
14 }
15
16 table, td, th, tr{
17     border: 2px solid black;
18     text-align: center;
19     width: 75%;
20     border-collapse: collapse;
21 }

```

Java:

```
1 import java.io.*;
2 import javax.servlet.ServletException;
3 import javax.servlet.*;
4 import javax.servlet.http.*;
5
6 //Tomcat 10 or later: change imports from "javax.x" to "
   jakarta.x"
7
8 //Reference: https://www3.ntu.edu.sg/home/ehchua/programming/
   java/JavaServlets.html
9
10 public class Register extends HttpServlet{
11     public void doGet(HttpServletRequest request,
12         HttpServletResponse response)
13         throws ServletException, IOException{
14         //defining action for GET
15         response.setContentType("text/html;charset=UTF-8"
16     );
17
18         PrintWriter out = response.getWriter();
19
20         try{
21             //Getting the parameters from the URL through
22             GET method from HTML Form
23             String uname= request.getParameter("uname").
24 trim();
25             String email= request.getParameter("email").
26 trim();
27
28             //Print out the HTML table with the contents
29             out.println("<!DOCTYPE html>");
30             out.println("<html>");
31             out.println("<head><title>Details Obtained</
32 title></head>");
33             //out.println("<link rel='stylesheet' href='
34 styles.css' type='text/css'></head>");
35             out.println("<body style='background-color:
36 azure;'><h1 style='text-align: center;'>User Details</h1>"
37 );
38
39             out.println("<table align='center' style='
40 border: 2px solid black; font-size: 25px;'><tr><th>Name</
```

```

30         th><td>" + uname + "</td></tr><tr><th>Email</th><td>" +
31         email + "</td></tr></table>");
32         out.println("</body></html>");
33     }
34     finally{
35         out.close();
36     }
37 }

```

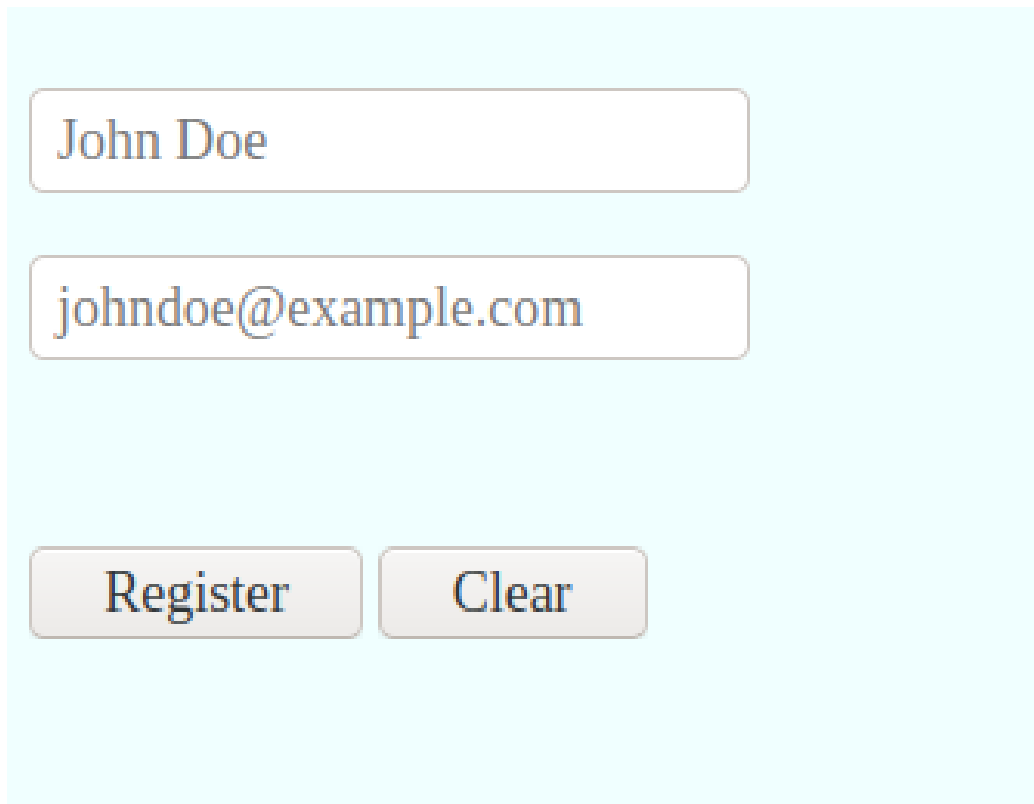
XML:

```

1 <web-app>
2     <servlet>
3         <servlet-name>Register</servlet-name>
4         <servlet-class>Register</servlet-class>
5     </servlet>
6
7     <servlet-mapping>
8         <servlet-name>Register</servlet-name>
9         <url-pattern>/servlet/Register</url-pattern>
10    </servlet-mapping>
11
12    <welcome-file-list>
13        <welcome-file>index.html</welcome-file>
14    </welcome-file-list>
15 </web-app>

```

Output:



A registration form displayed on a light blue background. It consists of two white input fields with rounded corners and thin grey borders. The first field contains the text "John Doe" and the second field contains "johndoe@example.com". Below the input fields are two grey buttons with rounded corners and thin grey borders. The first button is labeled "Register" and the second button is labeled "Clear".

Output:
