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 theservlet program to read username, email-id. Transmit it to the server. The server displays a table for username and email.

Code:

HTML:

```html
<!DOCTYPE html>
<html>
<head>
    <title>Simple Servlet Program</title>
```

```html
    <meta charset="utf-8">
    <link rel="stylesheet" href="styles.css">
</head>

<body>
    <h1>Welcome to Tomcat Servlet!</h1>
    <hr><br>
    <form action="servlet/Register" method="GET" action="echo">
        <input type="text" name="uname" placeholder="John Doe"><br><br>
        <input type="email" name="email" placeholder="johndoe@example.com"><br><br>
        <br><br>
        <input type="submit" value="Register">
        <input type="reset" value="Clear">
    </form>
</body>
</html>
```

CSS:

```css
body{
    background-color: azure;
}

*{
    font-size: 20px;
    font-family: "Times New Roman", Times, serif;
}

h1{
    font-size: 35px;
    text-align: center;
    color: blue;
}

table, td, th, tr{
    border: 2px solid black;
    text-align: center;
    width: 75%;
    border-collapse: collapse;
}
```

Java:

```java
import java.io.*;
import javax.servlet.ServletException;
import javax.servlet.*;
import javax.servlet.http.*;

//Tomcat 10 or later: change imports from "javax.x" to "
    jakarta.x"

//Reference: https://www3.ntu.edu.sg/home/ehchua/programming/
    java/JavaServlets.html

public class Register extends HttpServlet{
    public void doGet(HttpServletRequest request,
    HttpServletResponse response)
        throws ServletException, IOException{
            //defining action for GET
            response.setContentType("text/html;charset=UTF-8"
    );

            PrintWriter out = response.getWriter();

            try{
                //Getting the parameters from the URL through
     GET method from HTML Form
                String uname= request.getParameter("uname").
    trim();
                String email= request.getParameter("email").
    trim();

                //Print out the HTML table with the contents
                out.println("<!DOCTYPE html>");
                out.println("<html>");
                out.println("<head><title>Details Obtained</
    title></head>");
                //out.println("<link rel='stylesheet' href='
    styles.css' type='text/css'></head>");
                out.println("<body style='background-color:
    azure;'><h1 style='text-align: center;'>User Details</h1>"
    );
                out.println("<table align='center' style='
    border: 2px solid black; font-size: 25px;'><tr><th>Name</
```

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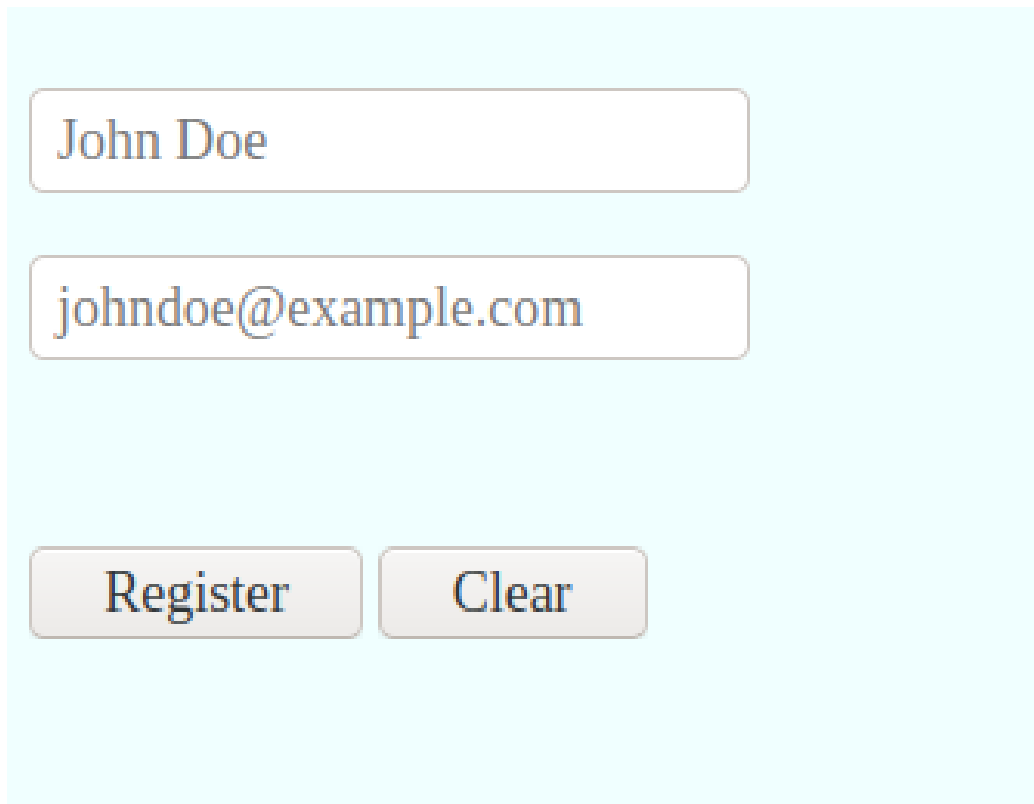
XML:

```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:

Output:

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