 Marwadi University Marwadi Chandarana Group	NAAC A+	Marwadi University Faculty of Technology Department of Information and Communication Technology
Subject: Advanced Java (01CT1623)	Aim: Take User Name and Email-id from user in html page. Store Email id in xml file also. Display both values in servlet. (Servlet)	
Experiment No:- 05	Date:-	Enrollment No:- 92200133030

Objective:- Take User Name and Email-id from user in html page. Store Email id in xml file also. Display both values in servlet. (Servlet)

Code :-

UserServlet.java

```
package Practicle_5;


import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/UserServlet")
public class UserServlet extends HttpServlet {

    // Handle POST requests
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        try {
            // Retrieve form data
            String username = request.getParameter("username");
            String email = request.getParameter("email");

            // Validate form data
            if (username == null || username.trim().isEmpty() || email == null || email.trim().isEmpty()) {
                out.println("<html><head><title>Error</title>");
                out.println("<link");
href='https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap'
rel='stylesheet'>");
                out.println("<style>");
                out.println("body { font-family: 'Poppins', sans-serif; background: #ffdddd; padding: 40px; text-align: center; }");
                out.println("h2 { color: #e74c3c; }");
                out.println("p { font-size: 18px; }");
                out.println("a { text-decoration: none; color: #3498db; font-size: 16px; }");
                out.println("</style></head>");
                out.println("<body>");
                out.println("<h2>Error: Both username and email are required!</h2>");
                out.println("<a href='user.html'>Go Back</a>");
            }
        }
    }
}
```

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```

        out.println("</body></html>");
        return;
    }

    // Display user information with consistent theme
    out.println("<html><head><title>User Info</title>");
    out.println("<link
href='https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap'
rel='stylesheet'>");
    out.println("<style>");
    out.println("body { font-family: 'Poppins', sans-serif; background: linear-gradient(to
right, #4facfe, #00f2fe); color: #333; min-height: 100vh; display: flex; justify-content: center;
align-items: center; }");
    out.println(".container { background: #fff; padding: 40px; border-radius: 12px; box-
shadow: 0 8px 20px rgba(0, 0, 0, 0.1); width: 450px; text-align: center; }");
    out.println("h2 { font-size: 28px; color: #2c3e50; }");
    out.println("p { font-size: 18px; line-height: 1.6; color: #555; }");
    out.println("a { display: inline-block; margin-top: 20px; text-decoration: none; color:
#3498db; font-weight: 500; transition: 0.3s; }");
    out.println("a:hover { color: #2980b9; }");
    out.println("</style></head>");
    out.println("<body>");
    out.println("<div class='container'>");
    out.println("<h2>User Information</h2>");
    out.println("<p><strong>Username:</strong> " + username + "</p>");
    out.println("<p><strong>Email ID:</strong> " + email + "</p>");
    out.println("<p style='color: green;'>Data submitted successfully!</p>");
    out.println("<a href='user.html'>Go Back</a>");
    out.println("</div>");
    out.println("</body></html>");

    } catch (Exception e) {
        // Handle exceptions gracefully
        out.println("<html><head><title>Error</title>");
        out.println("<link
href='https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap'
rel='stylesheet'>");
        out.println("<style>");
        out.println("body { font-family: 'Poppins', sans-serif; background: #ffdddd; padding:
40px; text-align: center; }");
        out.println("h2 { color: #e74c3c; }");
        out.println("p { font-size: 18px; }");
        out.println("a { text-decoration: none; color: #3498db; font-size: 16px; }");
        out.println("</style></head>");
        out.println("<body>");
        out.println("<h2>Error: " + e.getMessage() + "</h2>");
        out.println("<a href='user.html'>Go Back</a>");
        out.println("</body></html>");
        e.printStackTrace();
    } finally {

```

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```

        out.close();
    }
}
}

```

XMLHandler.java

```

package Practicle_5;

import java.io.File;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerFactory;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.stream.StreamResult;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.NodeList;

public class XMLHandler {

    private static final String XML_FILE_PATH = "D:/Aryan Data/Usefull Data/Semester - 6/Advanced_Java/Lab Manual/Experiment - 5/Experiment_5/src/main/webapp/WEB-INF/user.xml";


    public void addEmailToXML(String email) {
        try {
            File file = new File(XML_FILE_PATH);

            Document doc;
            Element rootElement;

            if (file.exists()) {
                // Parse existing XML
                DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance();
                DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
                doc = dBuilder.parse(file);
                rootElement = doc.getDocumentElement();
            } else {
                // Create new XML
                DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance();
                DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
                doc = dBuilder.newDocument();
                rootElement = doc.createElement("Users");
                doc.appendChild(rootElement);
            }

            // Create a new element for email

```

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```

Element user = doc.createElement("User");
Element emailElement = doc.createElement("Email");
emailElement.appendChild(doc.createTextNode(email));

user.appendChild(emailElement);
rootElement.appendChild(user);

// Write the content into XML
TransformerFactory transformerFactory = TransformerFactory.newInstance();
Transformer transformer = transformerFactory.newTransformer();
DOMSource source = new DOMSource(doc);
StreamResult result = new StreamResult(file);
transformer.transform(source, result);

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


```

User.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>User Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 50px;
            text-align: center;
        }
        form {
            max-width: 400px;
            margin: auto;
            padding: 20px;
            background: #f4f4f4;
            border-radius: 10px;
            box-shadow: 0 0 10px #ccc;
        }
        input, button {
            display: block;
            width: 100%;
            padding: 10px;
            margin-bottom: 10px;
        }
        button {
            background: #4CAF50;

```

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```

        color: white;
        border: none;
        cursor: pointer;
    }
    button:hover {
        background: #45a049;
    }
</style>
</head>
<body>

<h2>User Form</h2>
<form action="UserServlet" method="POST">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required>

    <label for="email">Email ID:</label>
    <input type="email" id="email" name="email" required>

    <button type="submit">Submit</button>
</form>

</body>
</html>


```

User.xml

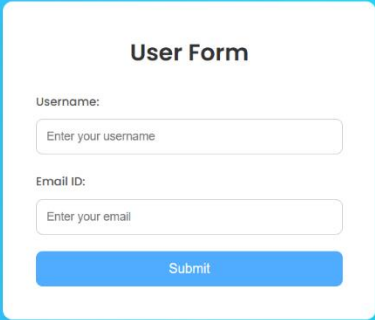
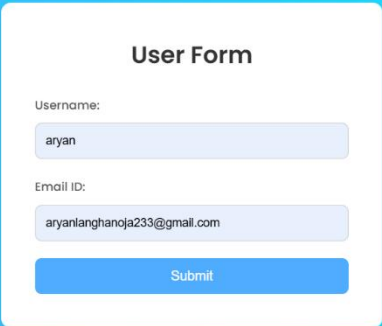
```


<?xml version="1.0" encoding="UTF-8" standalone="no"?><users>
<User><Email>aryanlanghanoja233@gmail.com</Email></User></users>

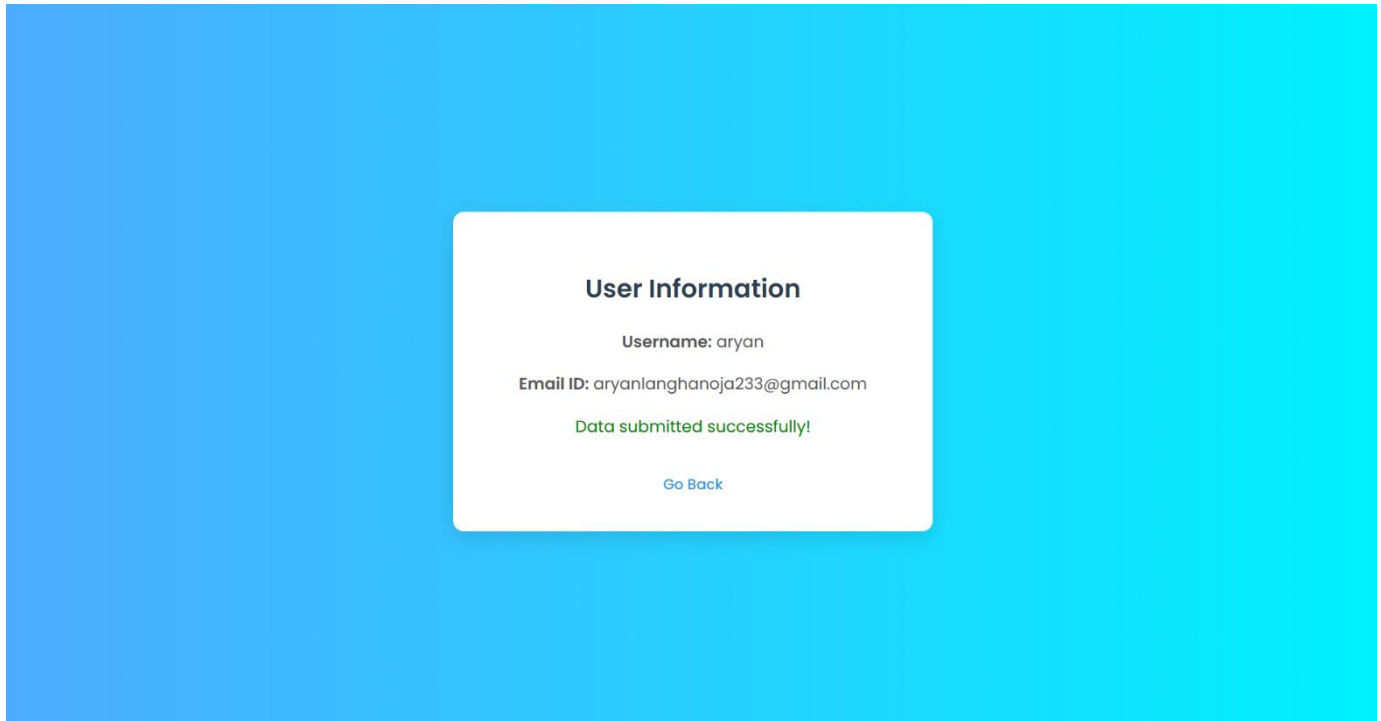
```

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Output:-

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```

<?xml version="1.0" encoding="UTF-8" standalone="no"?><users>
<User><Email>aryanlanghanoja233@gmail.com</Email></User><User><Email>aryanlanghanoja233@gmail.com</Email></User></users>

```