

Aim :

To validate the form using Java Servlet.

Procedure :

Step 1: Open any one of the text editor

Step 2: Create a HTML file named as index.html, a XML file named as WEB.XML, and a java file named as ValServlet.java

Step 3: Include all necessary tags includes html, body & head.

Step 4: Create a class to evaluate the input fields in an application.

Step 5: Run the java file to generate class file.

Step 6: Run the Apache Tomcat Server.

Step 7: Run the HTML file & validate the input fields.

Design code :

index.html

<html>

<head>

<title> Form validation </title>

<link rel="stylesheet" href="form.css">

</head>

<body>

<header>

```
<h1> REGISTRATION FORM </h1>
```

```
</header>
```

```
<center>
```

```
<div id="box">
```

```
<h2 style="background-color:rgb(34,167,240);
color:white;"> DETAILS </h2>
```

```
</center>
```

```
<form action="Servlet" method="post">
```

```
NAME <input type="text" name="name"> <br>
```

```
AGE <input type="number" name="age"> <br>
```

```
EMAIL <input type="text" name="email">
```

```
DATE OF BIRTH <input type="text" name="dob">
```

```
COUNTRY <br>
```

```
<select name="country" size="1" style="width:300px">
```

```
<option value="default">---SELECT---
```

```
<option value="India">INDIA </option>
```

```
<option value="Pakistan">PAKISTAN </option>
```

```
<option value="Bangladesh">BANGLADESH
```

```
</option>
```

```
</select> <br>
```

```
<input type="submit" value="SUBMIT">
```

```
</form> </div>
```

```
</center>
```

```
</body>
```

```
</html>
```

```
form.css
```

```
header
```

```
{
```



```
background-color: rgb(34, 167, 240);
text-align: center;
color: white;
padding-top: 3px;
padding-bottom: 2px;
```

```
}
```

```
#box{
```

```
background-color: rgb(228, 241, 254);
width: 300px;
border: 1px solid rgb(34, 167, 240);
padding: 30px;
margin: 15px;
```

```
}
```

web.xml

```
<?xml version="1.0" encoding="UTF-8">
<web-app xmlns:xsi="http://www.w3.org
/2001/XMLSchema-instance" xmlns="http:
//xmlns.jcp.org/ns/javaee" xsi:schemaLocation
="http://xmlns.jcp.org/xml/ns/javaee
id="WebApp_ID" version="3.1">
```

```
<servlet>
```

```
<servlet-name>hello</servlet-name>
```

```
<servlet-class>com.sample.ValServlet
```

```
</servlet-class>
```

```
</servlet>
```

```
<servlet-mapping>
```

```
<servlet-name>hello</servlet-name>
```

```
<url-pattern>/servlet</url-pattern>
```

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

ValServlet.java

```
package com.sample
import java.io.*;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import javax.servlet.*;
import javax.servlet.http.*;

public class ValServlet extends HttpServlet
{
    public void doPost(HttpServletRequest req,
        HttpServletResponse res) throws
        ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter out = res.getWriter();
        String name = req.getParameter("name");
        int age = Integer.parseInt(req.getParameter(
            "age"));

        String email = req.getParameter("email");
        String dob = req.getParameter("dob");
        String country = req.getParameter("country");
        int count = 0;
        String regex = "^[\\p{L}.'-]+$";
        String regex1 = "^[a-zA-Z0-9_+&*-]"
        String regex2 = "^(1[0-2]0[1-9])/(3[01]' +
            "1[12][0-9]|0[1-9])/[0-9]{4}$";
```



```
if (!matcher.find())
```

```
{
```

```
    count++;
```

```
    out.write("<center>");
```

```
    out.write("<h2>");
```

```
    out.println("Name is invalid");
```

```
    out.write("<br>");
```

```
    out.write("</h2>");
```

```
    out.write("</center>");
```

```
}
```

```
if (age < 18 || age > 60)
```

```
{
```

```
    count++;
```

```
    out.write("<center>");
```

```
    out.write("<h2>");
```

```
    out.println("Age is invalid");
```

```
    out.write("<br>");
```

```
    out.write("</center>");
```

```
}
```

```
if (!matcher1.find())
```

```
{
```

```
    count++;
```

```
    out.write("<center>");
```

```
    out.write("<h2>");
```

```
    out.println("Email is in correct format");
```

```
    out.write("<br>");
```

```
    out.write("</center>");
```

```
}
```

```
if (country.equals("default"))
```

Output:

Name :	<input type="text"/>
Address :	<input type="text"/>
E-Mail :	<input type="text"/>
Contact No :	<input type="text"/>
Password :	<input type="password"/>
confirm password :	<input type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

This page says

Errors:

Name is empty

Address is empty

E-Mail is empty

Passwords are empty


```
{ count++;  
out.write("<center>");  
out.write("<h2>");  
out.println("Select a country");  
out.write("<br>");  
out.write("</center>");  
}  
if (count == 0)  
{  
    out.write("<center>");  
    out.write("<h2>");  
    out.println("All values are entered  
correctly");  
    out.write("<br>");  
    out.print(" WELCOME " + name);  
    out.write("</center>");  
}  
else  
{  
    res.setHeader("Refresh", "5;url=../index.html");  
}
```

		Mark	Sign
	Preparation		
	Observation		
	Result		
	viva		
	Record		

Result: Thus the form is validated & successfully submitted using JAVA Servlet was written & executed successfully.