

EXP 4: WEB FORM DEVELOPED USING SERVLET PROGRAM

AIM:

To create a web form that accepts a user's name and age, processes the data using JavaScript, and displays the submitted details with a stylish UI and animations.

ALGORITHM:

Step 1: Start

Step 2: Design the Web Form

- Create an HTML form with two input fields:
 - Name (Text Input) ◦
 - Age (Number Input)
- a submit button.

Step 3: Apply CSS Styles

- Use **gradient background, smooth input effects, button hover effects, and animations.**
- Style the form, inputs, button, and result display area.

Step 4: Write JavaScript for Form Handling

- Attach an **event listener** to the form submit event.
- Get user input values (`name` and `age`).
- Validate input fields (ensure **name is not empty** and **age is valid**).
- If validation fails, **show an alert**.
- If valid, display the submitted details dynamically.

Step 5: Show Output Dynamically

- Use JavaScript to update the UI and **display the submitted data in a formatted box**.
 - ◻ Use **smooth animations** for better user experience.

Step 6: End

PROGRAM:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>User Form</title>

  <style>

    /* Import Google Font */

    @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap');

    /* Page Styling */

body {

  font-family: 'Poppins', sans-serif;

  background: linear-gradient(135deg, #ff9a9e, #fad0c4);

display: flex;      justify-content: center;      align-
items: center;      height: 100vh;      margin: 0;

  animation: fadeIn 1s ease-in-out;

}

    /* Form Container */

.container {

background: white;

padding: 25px;

border-radius: 12px;

  box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.2);

width: 350px;

  text-align: center;      transition:

transform 0.3s ease-in-out;
```

```
}
```

```
.container:hover {  
transform: scale(1.05);  
}  
h2 {          color: #ff4d6d;          font-  
weight: 600;          margin-bottom: 15px;  
text-shadow: 1px 1px 2px rgba(0, 0, 0, 0.2);  
}
```

```
/* Input Fields */  
label {          font-weight:  
600;          color: #444;  
display: block;  
margin: 10px 0 5px;  
}  
input {          width:  
100%;          padding: 10px;  
border: 2px solid #ff4d6d;  
border-radius: 8px;          font-  
size: 16px;          outline: none;  
  
transition: all 0.3s ease-in-out;  
}
```

```
input:focus {  
border-color: #ff165d;  
box-shadow: 0px 0px 10px rgba(255, 22, 93, 0.4);  
}
```

```
/* Submit Button */  
  
button {  
    background: #ff4d6d;  
    color: white;  
    border: none;  
    padding: 12px;  
    cursor: pointer;  
    width: 100%;  
    font-size: 18px;  
    font-weight: 600;  
    border-radius: 8px;  
    margin-top: 15px;  
    transition: background 0.3s ease-in-out, transform 0.2s;  
}
```

```
button:hover {  
    background: #ff165d;  
    transform: scale(1.05);  
}
```

```
button:active {  
    transform: scale(0.95); }  
}
```

```
/* Output Box */  
  
.output {  
    display: none;  
    margin-top: 20px;  
    padding: 15px;  
    border-radius: 8px;  
    background: #e0f7fa;  
    color: #00796b;  
    font-
```

```
size: 16px;      text-
align: left;

    box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.1);
animation: slideIn 0.5s ease-in-out;
    }
```

```
    /* Animations */

    @keyframes fadeIn {
        from { opacity: 0; transform: translateY(-10px); }
    to { opacity: 1; transform: translateY(0); }
    }
```

```
    @keyframes slideIn {
        from { opacity: 0; transform: translateY(20px); }
    to { opacity: 1; transform: translateY(0); }
    }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
    <div class="container">
```

```
        <h2>Enter Your Details</h2>
```

```
        <form id="userForm">
```

```
            <label for="name">Name:</label>
```

```
            <input type="text" id="name" name="name" required placeholder="Enter your
name...">
```

```
            <label for="age">Age:</label>
```

```
            <input type="number" id="age" name="age" required placeholder="Enter your
age...">
```

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

```
</form>
```

```
<div class="output" id="output"></div>
```

```
</div>
```

```
<script>
```

```
    document.getElementById("userForm").addEventListener("submit", function(event) {  
event.preventDefault(); // Prevent form submission
```

```
        let name = document.getElementById("name").value.trim();  
let age = document.getElementById("age").value.trim();
```

```
        if (name === "" || age === "" || age <= 0) {  
alert("⚠ Please enter a valid name and age."); return;  
        }
```

```
        // Display the submitted data with an animation let  
outputBox      =      document.getElementById("output");  
outputBox.innerHTML =
```

```
        `

### ✔ Submitted Details</h3> <p><b>Name:</b> ${name}</p> <p><b>Age:</b> ${age}</p>`; outputBox.style.display = "block"; });


```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:

The screenshot displays a web form titled "Enter Your Details" in red text. Below the title, there are two input fields: "Name:" with the value "Marcellus" and "Age:" with the value "19". A red "Submit" button is positioned below the input fields. Underneath the button, a light blue box contains a green checkmark icon followed by the text "Submitted Details". Below this, the submitted information is displayed: "Name: Marcellus" and "Age: 19".

RESULT: The creation of web form using servlet program was executed successfully.