

## **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)
- Add 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, #ff7f50, #ffcc80); /* Orange gradient */
            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);
        }
    </style>

```

```
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 =
        `<h3>☑ 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 shows a web application interface. At the top, a title bar displays "Enter Your Details". Below the title, there are two input fields: one for "Name" containing "MANI SHANKAR RAJU R" and another for "Age" containing "20". A red "Submit" button is positioned below these fields. At the bottom of the page, a success message is displayed: "✓ Submitted Details" followed by the submitted data: "Name: MANI SHANKAR RAJU R" and "Age: 20".

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