

## 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, #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;

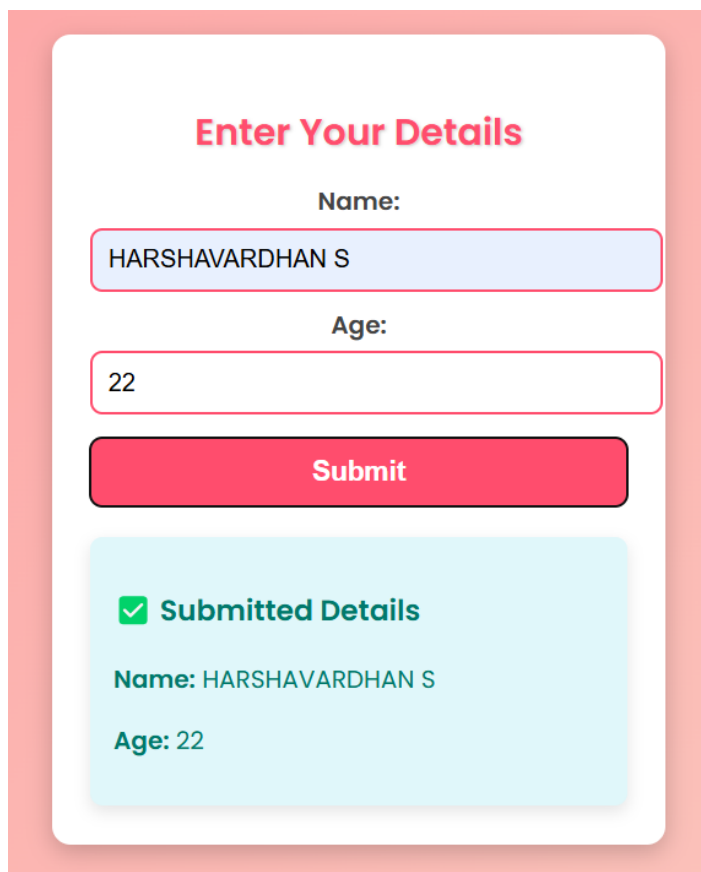
  }

  // Display the submitted data with an animation

  let outputBox = document.getElementById("output");
  outputBox.innerHTML =
```

```
`<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 displays a web form with a pink border. At the top, it says "Enter Your Details" in red. Below this, there are two input fields: "Name:" with the value "HARSHAVARDHAN S" and "Age:" with the value "22". A red "Submit" button is positioned below the input fields. At the bottom, a light blue box contains a green checkmark icon followed by the text "Submitted Details". Below this, the submitted information is displayed: "Name: HARSHAVARDHAN S" and "Age: 22".

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