

Ex. No: 3	Form Making and Validation using JavaScript
27.07.2023	

Aim:

To create a Form with usual form elements in JavaScript including the Alert(), Confirm(), and Response() functions. Additionally, validate the form elements.

Algorithm:

1. Create HTML and CSS file
2. Setup JavaScript in the HTML file
3. Access the form elements
4. Setup a validation logic
5. Use the Alert(), confirm() and response() functions for validation
6. Display validation results

Program:

HTML

```

1  <!DOCTYPE html>
2  <html>
3  <head>
4  <title>Fancy Form with Validation</title>
5  <link rel="stylesheet" href="style.css">
6  </head>
7  <body>
8  <div class="container">
9  <form id="myForm" onsubmit="return validateForm()">
10 <div class="form-group">
11 <label for="name">Name:</label>
12 <input type="text" id="name" name="name" required>
13 </div>
14 <div class="form-group">
15 <label>Gender:</label>
16 <input type="radio" name="gender" value="male"> Male
17 <input type="radio" name="gender" value="female"> Female
18 </div>
19 <div class="form-group">
20 <label for="email">Email:</label>
21 <input type="email" id="email" name="email" required>
22 </div>
23 <div class="form-group">
24 <label>Languages:</label>
25 <input type="checkbox" name="language" value="english"> English
26 <input type="checkbox" name="language" value="spanish"> Spanish
27 <input type="checkbox" name="language" value="french"> French
28 </div>
29 <div class="form-group">
30 <label for="message">Message:</label>
31 <textarea id="message" name="message" required></textarea>
32 </div>
33 <div class="form-group">
34 <label for="birthdate">Birthdate:</label>
35 <input type="date" id="birthdate" name="birthdate" required>
36 </div>
37 <div class="form-group">
38 <label for="country">Country:</label>
39 <select id="country" name="country" required>
40 <option value="" disabled selected>Select your country</option>
41 <option value="usa">USA</option>
42 <option value="canada">Canada</option>
43 <option value="uk">UK</option>
44 <option value="australia">Australia</option>
45 </select>
46 </div>
47 <div class="form-group">
48 <label for="avatar">Avatar:</label>
49 <input type="file" id="avatar" name="avatar" accept="image/*">
50 </div>
51 <button type="submit">Submit</button>
52 </form>
53 </div>
54 </body>
55 </html>

```

CSS

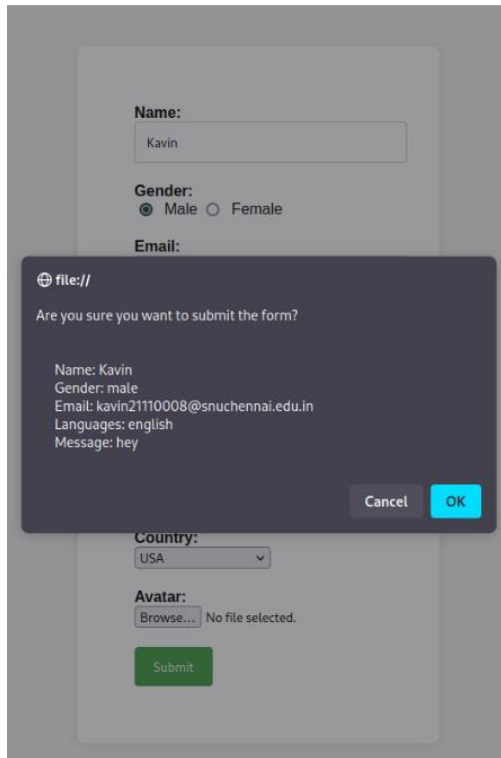
```
# style.css > % buttonhover
1 body {
2   font-family: Arial, sans-serif;
3   margin: 0;
4   display: flex;
5   justify-content: center;
6   align-items: center;
7   min-height: 100vh;
8   background-color: #f5f5f5;
9 }
10
11 .container {
12   background-color: #fff;
13   border-radius: 8px;
14   padding: 60px;
15   box-shadow: 0px 2px 10px rgba(0, 0, 0, 0.1);
16 }
17
18 .form-group {
19   margin-bottom: 20px;
20 }
21
22 .label {
23   display: block;
24   font-weight: bold;
25 }
26
27 input[type="text"],
28 input[type="email"],
29 textarea {
30   width: 100%;
31   padding: 12px;
32   border: 1px solid #ccc;
33   border-radius: 4px;
34   transition: border-color 0.3s;
35 }
36
37 input[type="text"]:focus,
38 input[type="email"]:focus,
39 textarea:focus {
40   border-color: #4CAF50;
41 }
42
43 input[type="radio"],
44 input[type="checkbox"] {
45   margin-right: 8px;
46 }
47
48 .button {
49   padding: 12px 20px;
50   background-color: #4CAF50;
51   color: #fff;
52   border: none;
53   border-radius: 4px;
54   cursor: pointer;
55   transition: background-color 0.3s;
56 }
57
58 .button:hover {
59   background-color: #45a049;
60 }
```

Javascript

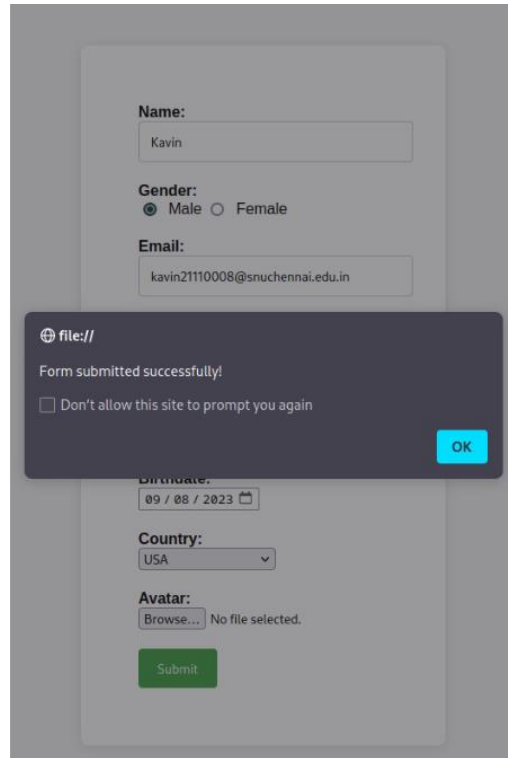
```
scripts > validate-form > % confirmationMessage
1 function validateForm() {
2   const name = document.getElementById("name").value;
3   const gender = document.querySelector('input[name="gender"]:checked');
4   const email = document.getElementById("email").value;
5   const languages = document.querySelectorAll('input[name="language"]:checked');
6   const message = document.getElementById("message").value;
7
8   if (!name || !gender || !email || languages.length === 0 || !message) {
9     alert("Please fill in all the required fields.");
10    return false;
11  }
12
13  const confirmationMessage = `
14    Name: ${name}
15    Gender: ${gender.value}
16    Email: ${email}
17    Languages: ${[...languages].map(lang => lang.value).join(", ")}
18    Message: ${message}
19  `;
20
21  const confirmed = confirm("Are you sure you want to submit the form?\n\n" + confirmationMessage);
22
23  if (confirmed) {
24    alert("Form submitted successfully!");
25  } else {
26    alert("Form submission canceled.");
27  }
28
29  return confirmed;
30 }
31
```

Output:

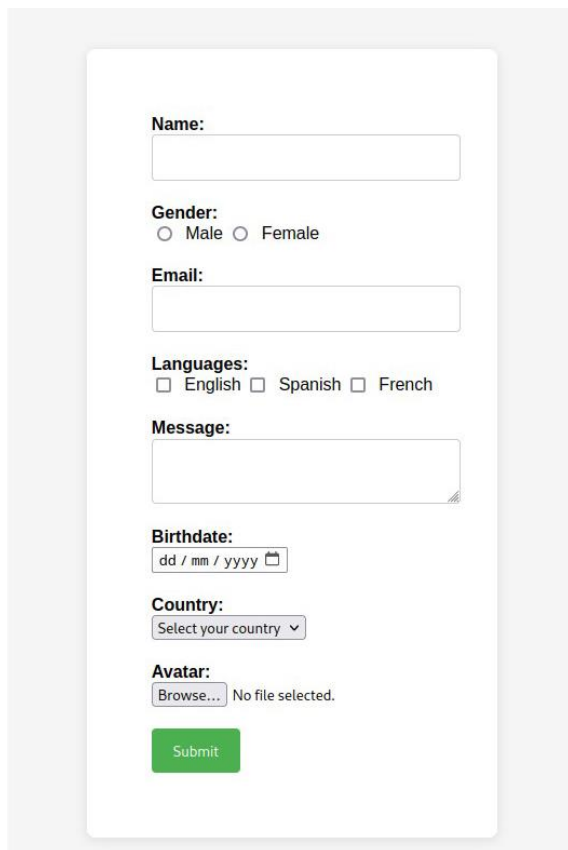
Github Link: <https://github.com/kavin-t28/CS3809-Web-Technologies-Lab>



A screenshot of a web form with a confirmation dialog box. The form fields are: Name (Kavin), Gender (Male selected), Email (kavin21110008@snuchennai.edu.in), Country (USA), and Avatar (Browse... No file selected). The dialog box asks "Are you sure you want to submit the form?" and lists the form data: Name: Kavin, Gender: male, Email: kavin21110008@snuchennai.edu.in, Languages: english, Message: hey. It has Cancel and OK buttons.



A screenshot of a web form with a success message dialog box. The form fields are: Name (Kavin), Gender (Male selected), Email (kavin21110008@snuchennai.edu.in), Country (USA), and Avatar (Browse... No file selected). The dialog box says "Form submitted successfully!" and has a checkbox for "Don't allow this site to prompt you again" and an OK button.



A screenshot of a web form with the following fields: Name (text input), Gender (Male/Female radio buttons), Email (text input), Languages (English/Spanish/French checkboxes), Message (text area), Birthdate (dd/mm/yyyy date picker), Country (Select your country dropdown), and Avatar (Browse... No file selected). A green Submit button is at the bottom.

Result:

Therefore, created a form and validated it using javascript.