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

```
<!DOCTYPE html>
<html>
<head>
 <title>Form with JavaScript Functions</title>
 <style>
  .error {
   color: red;
  }
  .padit {
    padding: 10px;
  }
 </style>

</head>
<body>
   <div style="display:flex; background-color: aqua; justify-content: center; max-width:750px ;
   max-height:750px; margin-left: auto; margin-right: auto; margin-top: 100px; margin-bottom: auto;">
     <form id="myForm">
       <div class="padit">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <span id="nameError" class="error"></span>
       </div>
       <div class="padit">
        <label for="email">Email:</label>
```

```html
        <input type="email" id="email" name="email" required>
        <span id="emailError" class="error"></span>
      </div>
      <div class="padit">
        <label for="message">Message:</label>
        <textarea id="message" name="message" rows="4" cols="17"
required></textarea>
        <span id="messageError" class="error"></span>
      </div>
      <div class="padit">
        <button type="submit">Submit</button>
      </div>
    </form>
  </div>

  <!-- run validation on #id "myForm" -->
 <script src="index.js"></script>
</body>
</html>
```

Javascript

```javascript
document.getElementById('myForm').addEventListener('submit', function(event)
{

   const name = document.getElementById('name').value.trim();
   const email = document.getElementById('email').value.trim();
   const message = document.getElementById('message').value.trim();

   const nameError = document.getElementById('nameError');
   const emailError = document.getElementById('emailError');
   const messageError = document.getElementById('messageError');

   let isValid = true;

   function isValidEmail(email) {
      const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+\.[^\s@]+$/;
      return emailRegex.test(email);
    }

   if (name === '') {
     nameError.textContent = 'Name is required';
     isValid = false;
   } else {
     nameError.textContent = '';
   }
```
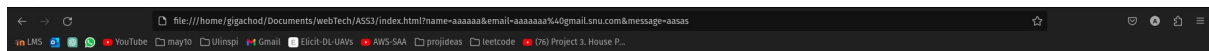
```javascript
    if (email === '') {
      emailError.textContent = 'Email is required';
      isValid = false;
    } else if (!isValidEmail(email)) {
      emailError.textContent = 'Invalid email address';
      isValid = false;
    } else {
        messageError.textContent = '';
      }

    if (message === '') {
      messageError.textContent = 'Message is required';
      isValid = false;
    } else {
      messageError.textContent = '';
    }

    const confirmed = confirm('Are you sure you want to submit the form?');
    if (confirmed) {
      alert('Form submitted successfully!');
    }
    if (!isValid) {
        event.preventDefault();
        return;
      }
  });
```
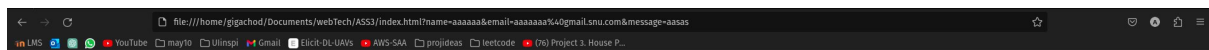
Output:

Github Link: https://github.com/AsHtrich/Web_tech2023
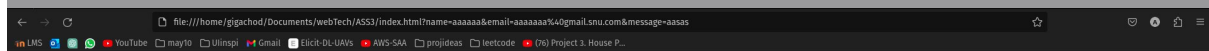
Result:
Therefore, created a form and validated it using javascript.