

# **RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



**RAJALAKSHMI  
ENGINEERING COLLEGE**

**CS23A34**

**USER INTERFACE AND DESIGN LAB**

**Laboratory Observation Notebook**

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**Design input forms that validate data (e.g., email, phone number) and display error messages using HTML/CSS, JavaScript (with Validator.js)**

**AIM:**

The aim is to design input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js.

**PROCEDURE:**

**Step 1: Setting Up the HTML Form**

Start by creating an HTML form with input fields for the email and phone number.

**html**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Validation</title>
  <link rel="stylesheet" href="style.css">
</head>
```

```

<body>
  <div class="container">
    <form id="myForm">
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>
      <span id="emailError" class="error"></span>

      <label for="phone">Phone Number:</label>
      <input type="text" id="phone" name="phone" required>
      <span id="phoneError" class="error"></span>

      <button type="submit">Submit</button>
    </form>
  </div>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/validator/13.6.0/validator.min.js"></script>
    <script src="script.js"></script>
</body>
</html>

```

## □ Step 2: Styling the Form with CSS

Next, add some basic styling to make the form look nice.

### css

```

□ /* style.css */
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  display: flex;

```

```
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}
```

```
.container {
    background-color: white;
    padding: 20px;
    border-radius: 5px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
form {
    display: flex;
    flex-direction: column;
}
```

```
label {
    margin-bottom: 5px;
}
```

```
input {
    margin-bottom: 10px;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 3px;
}
```

```
button {  
  padding: 10px;  
  background-color: #28a745;  
  color: white;  
  border: none;  
  border-radius: 3px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #218838;  
}
```

```
.error {  
  color: red;  
  font-size: 0.875em;  
}
```

### □ **Step 3: Adding JavaScript for Validation**

Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

#### **javascript**

```
□/* script.js */  
  
document.getElementById('myForm').addEventListener('submit', function (e) {  
  e.preventDefault();  
  
  let email = document.getElementById('email').value;
```

```
let phone = document.getElementById('phone').value;

let emailError = document.getElementById('emailError');
let phoneError = document.getElementById('phoneError');

// Clear previous error messages
emailError.textContent = "";
phoneError.textContent = "";

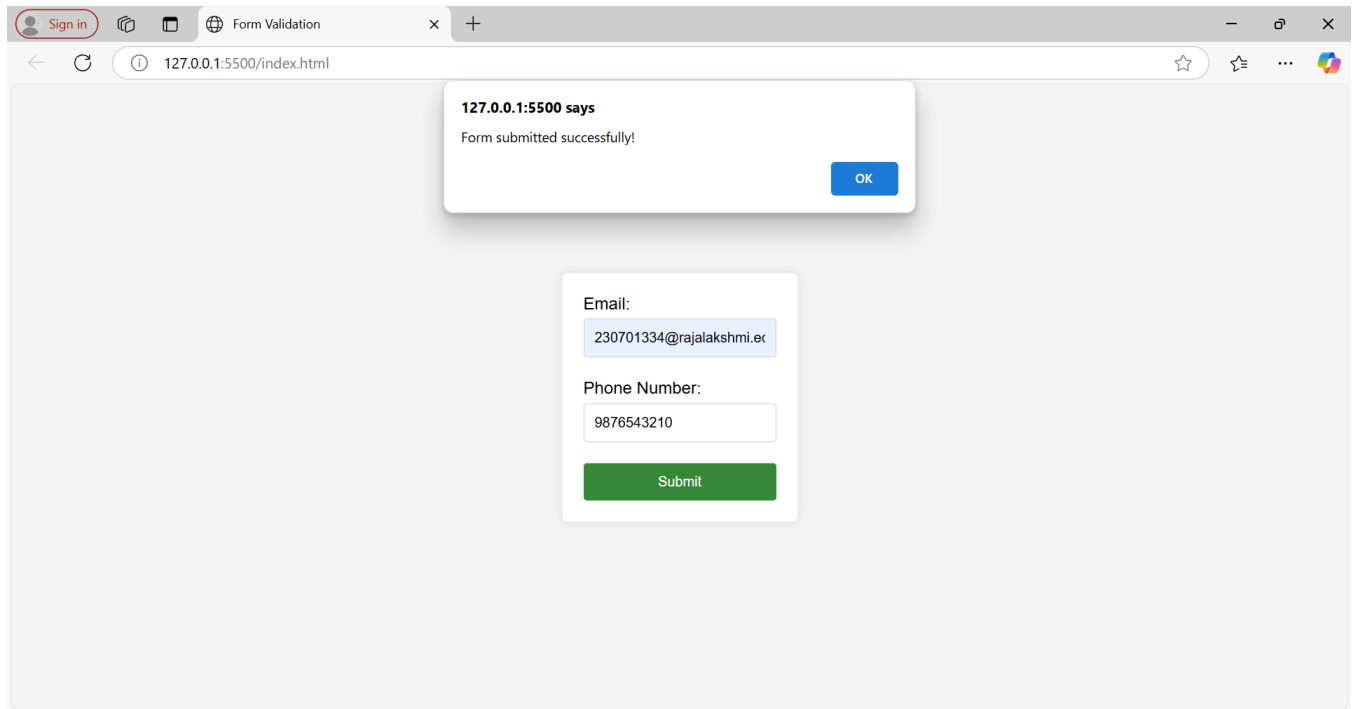
// Validate email
if (!validator.isEmail(email)) {
    emailError.textContent = 'Please enter a valid email address.';
}

// Validate phone number
if (!validator.isMobilePhone(phone, 'any')) {
    phoneError.textContent = 'Please enter a valid phone number.';
}

// If no errors, submit the form (for demonstration purposes, we'll just log the values)
if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {
    console.log('Email:', email);
    console.log('Phone:', phone);
}
});
```

□

**OUTPUT:**



Email:

Phone Number:

Submit

## RESULT:

Hence we designed the input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js