

**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



<p><b>CS23A34</b> <b>USER INTERFACE AND DESIGN LAB</b></p>
<p><b>Laboratory Observation NoteBook</b></p>

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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.

```
<!-- index.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"></scri
pt>

  <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.

```
/* 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.

```
// script.js
```

```
document.getElementById('myForm').addEventListener('submit', function (e) {
    e.preventDefault();
```

```
const email = document.getElementById('email').value;
```

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

```
const emailError = document.getElementById('emailError');
```

```
const 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')) {
```

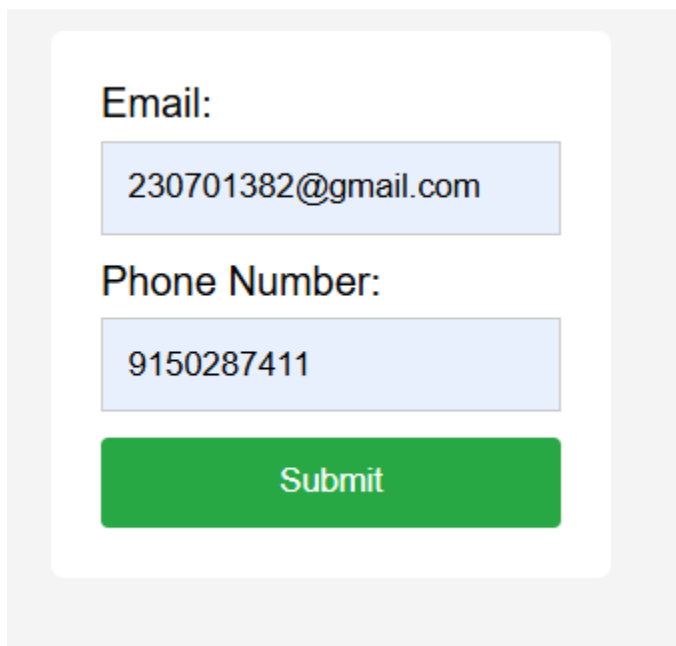
```
    phoneError.textContent = 'Please enter a valid phone number.';
```

```
}
```

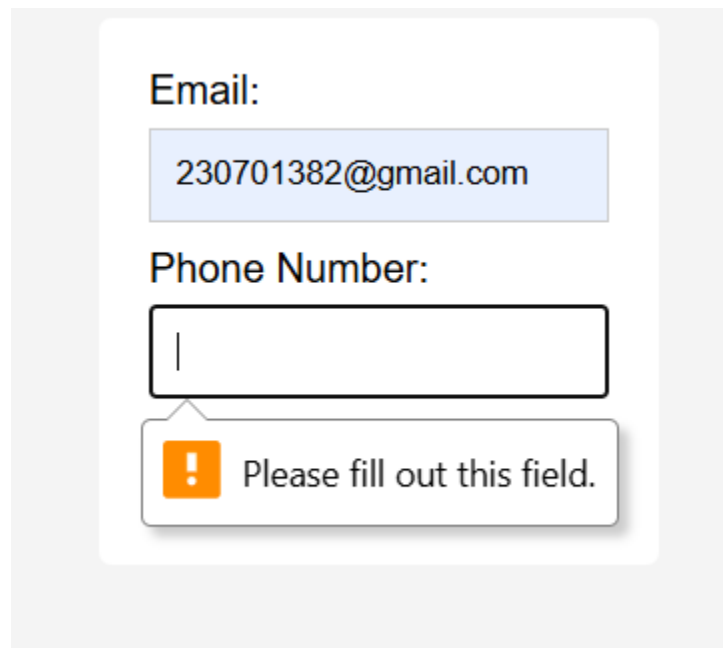
```
// If valid, log the input values
```

```
if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {  
    console.log('Email:', email);  
    console.log('Phone:', phone);  
}  
});
```

### OUTPUT:



A form with two input fields and a submit button. The first field is labeled "Email:" and contains the text "230701382@gmail.com". The second field is labeled "Phone Number:" and contains the text "9150287411". Below the fields is a green button labeled "Submit".



A form with two input fields and a submit button. The first field is labeled "Email:" and contains the text "230701382@gmail.com". The second field is labeled "Phone Number:" and is empty. Below the empty field is an orange error message box that says "Please fill out this field.".

## **RESULT:**

Input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js has been designed.