

**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/valid
ator.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');

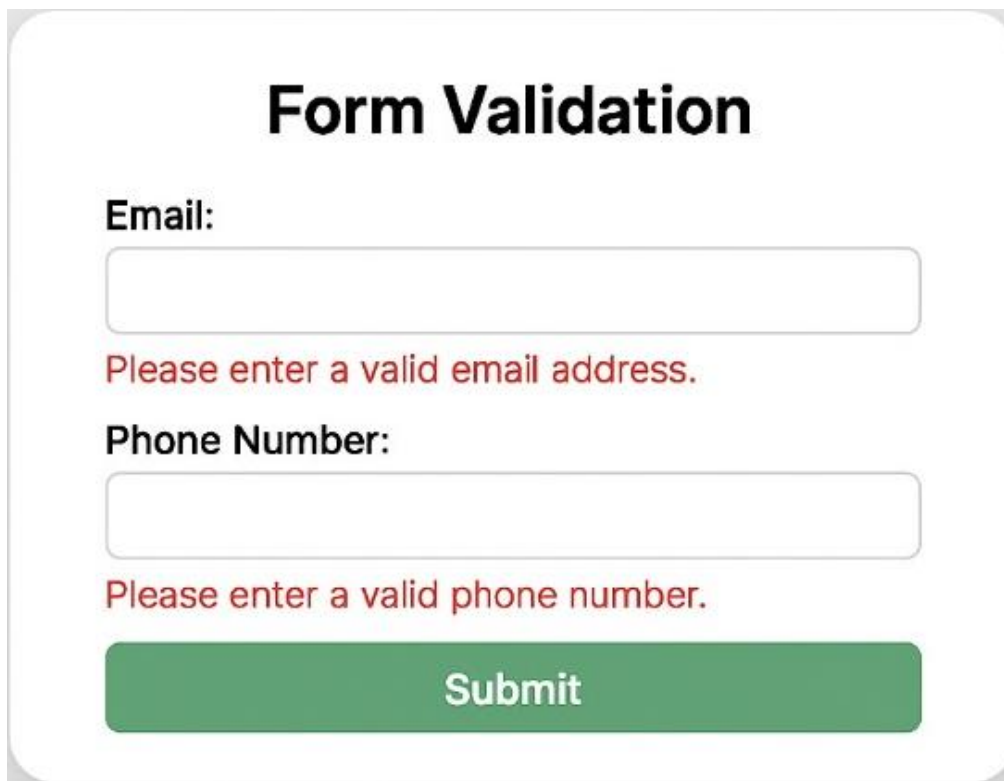
    // Clear previous error messages
    emailError.textContent = "";
    phoneError.textContent = "";

    // 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:



The image shows a web form titled "Form Validation". It contains two input fields: "Email:" and "Phone Number:". Below the "Email:" field is a red error message: "Please enter a valid email address." Below the "Phone Number:" field is a red error message: "Please enter a valid phone number." At the bottom of the form is a green "Submit" button.

**Form Validation**

Email:

Please enter a valid email address.

Phone Number:

Please enter a valid phone number.

**Submit**

## RESULT:

Hence, design input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js have been executed successfully.