

# **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>
```

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;  
}
```

## Java script

```
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')) {
```

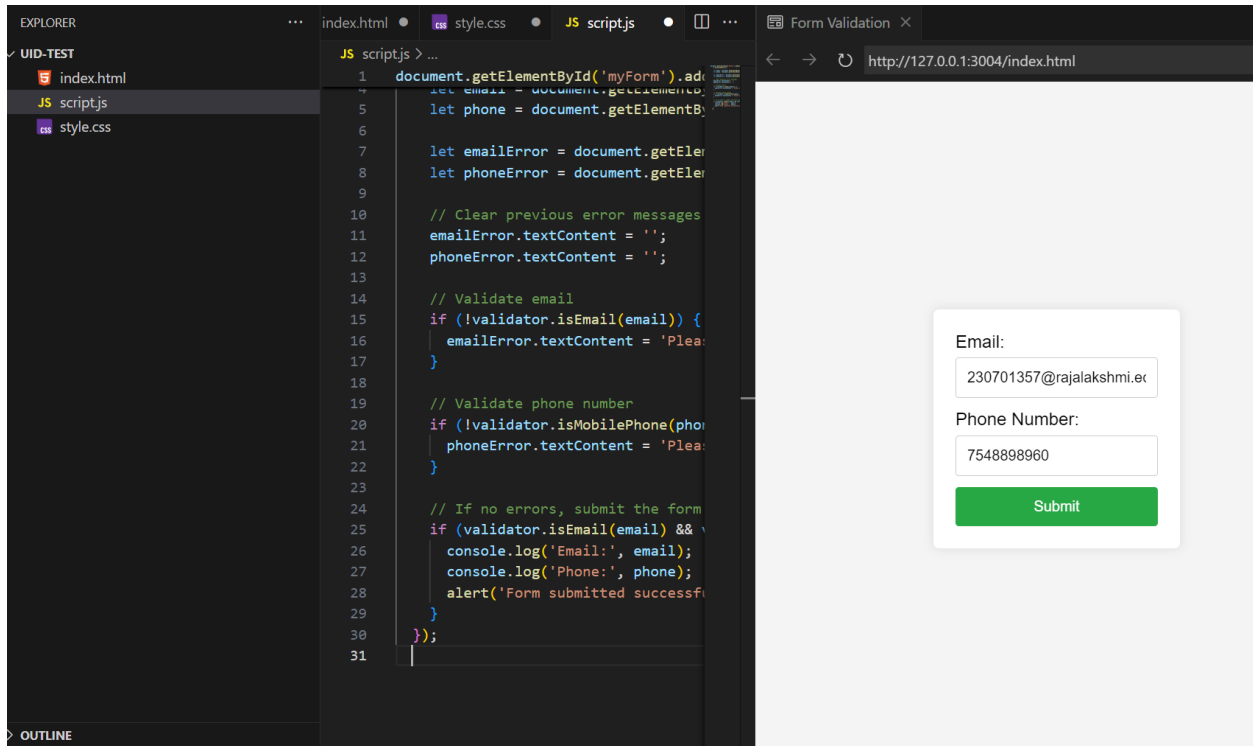
```
    phoneError.textContent = 'Please enter a valid phone number.';
}

// If no errors, submit the form (for demonstration purposes, just
log)

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



## Output:



## 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 done.