

# **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; }
```

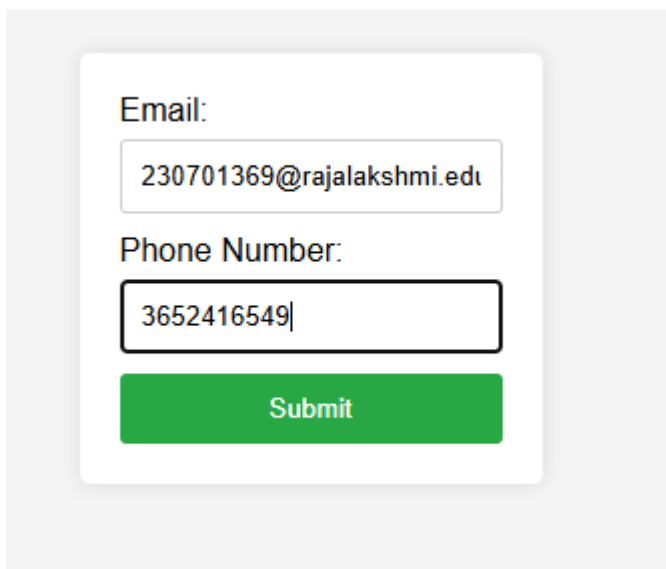
### Step 3: Adding JavaScript for Validation

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:



The image shows a web form with a light gray background. Inside the form, there is a white container with rounded corners. At the top, the label "Email:" is followed by a text input field containing the email address "230701369@rajalakshmi.edu". Below this, the label "Phone Number:" is followed by a text input field containing the phone number "3652416549". At the bottom of the container is a green rectangular button with the word "Submit" in white text.

### 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.