

RAJALAKSHMI ENGINEERING COLLEGE

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**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.

```
<!-- 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>

      <br />

      <label for="phone">Phone Number:</label>

      <input type="text" id="phone" name="phone" required />

      <span id="phoneError" class="error"></span>

      <br />

      <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:

The image displays two side-by-side screenshots of a web form. Each form has an 'Email' field and a 'Phone Number' field, both with light blue borders. Below the fields is a green 'Submit' button. In the left screenshot, the email field contains '230701343@rajalakshmi.edu.in' and the phone number field contains '6382635078'. In the right screenshot, the email field contains the same email address, but the phone number field contains only '638'. Below the phone number field in the right screenshot, there is a red error message: 'Please enter a valid phone number.'

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.

