

**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 {  fontfamily:
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; flexdirection:
column;
}
```

```
label { marginbottom:
5px;
}
```

```
input { marginbottom:
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:

Email:  Phone Number:

Email:  Phone Number:

 Please include an '@' in the email address. '230701275lakshmi.edu.in' is missing an '@'.

### 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.