

RAJALAKSHMI ENGINEERING COLLEGE  
RAJALAKSHMI NAGAR, THANDALAM – 602 105



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>


    <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"></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

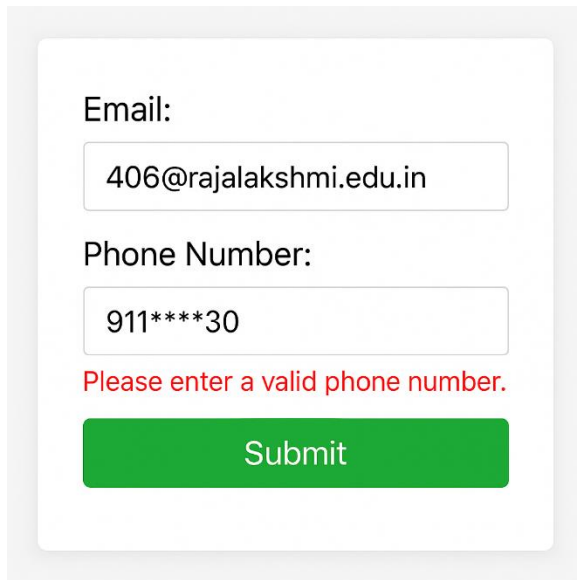
emailError.textContent = "";
phoneError.textContent = "";


// 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 shows a web form with two input fields. The first field is labeled 'Email:' and contains the text '406@rajalakshmi.edu.in'. The second field is labeled 'Phone Number:' and contains the text '911\*\*\*\*30'. Below the phone number field, there is a red error message that reads 'Please enter a valid phone number.' At the bottom of the form is a green button with the text 'Submit'.

Email:

406@rajalakshmi.edu.in

Phone Number:

911\*\*\*\*30

Please enter a valid phone number.

Submit

## 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.