RAJALAKSHMI ENGINEERING COLLEGE

RAJALAKSHMI NAGAR, THANDALAM – 602 105

CS23A34
USER INTERFACE AND DESIGN LAB

Laboratory Observation Notebook

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Semester : IV
Academic Year: 2024-25

Ex. No.: 9

Register No.: 230701368 **Name: AL UMA**

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

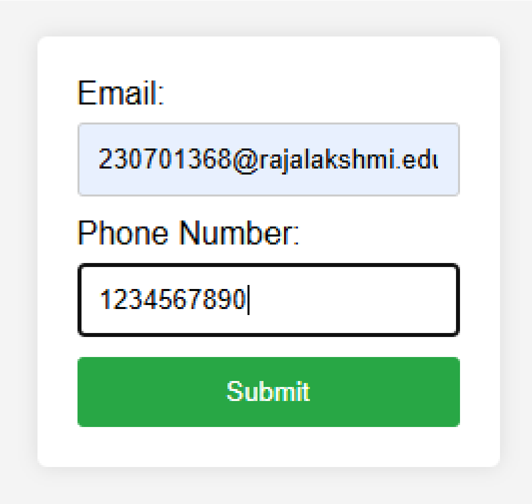
Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

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:



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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.