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. **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">
```

```html
</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**

```css
/* style.css */ body {    fontfamily:
Arial, sans-serif;    background-
color: #f4f4f4;    display: flex;
justify-content: center;    align-
```

```css
    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 {   backgroundcolor:

#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:

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.