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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">
```

```html
    <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**

```css
/* style.css */ body {     fontfamily:
Arial, sans-serif;     backgroundcolor:
#f4f4f4;    display: flex;    justifycontent:
center;    alignitems: 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;
borderradius: 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

```javascript
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:

Contact Information

Email Address

sanjay56412310@gmail.com

Phone Number

6381763406

Submit

Contact Information

Email Address

Enter your email address

Phone Number

Enter your phone number

Submit

Information submitted successfully!

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.