

RAJALAKSHMI ENGINEERING COLLEGE
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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:

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.