

**EX.NO: 9**

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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.mi
n.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:

## Contact Information

Email Address

Email is required

Phone Number

Please enter a valid phone number

Full Name

Name is required

### RESULT:

Hence , 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 has been done successfully.