

**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)**

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**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:
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,  
&#39;any&#39;)) { phoneError.textContent = &#39;Please enter a valid  
phone number.&#39;;  
}
```

```
// If no errors, submit the form (for demonstration purposes, we&#39;ll just log  
the values)  
if (validator.isEmail(email) & & validator.isMobilePhone(phone,  
&#39;any&#39;))  
  console.log(&#39;Email:&#39;, email);  
  console.log(&#39;Phone:&#39;, 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.