

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.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 {
  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');

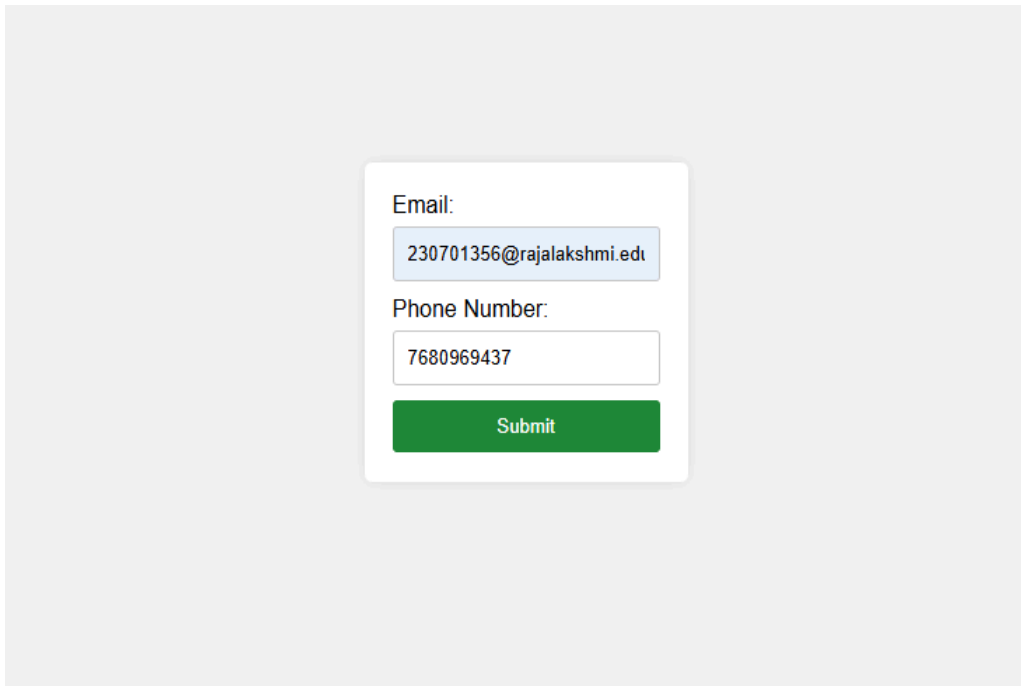
// Clear previous error messages
emailError.textContent = "";
phoneError.textContent = "";

// 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:



A screenshot of a web form on a light gray background. The form is a white rounded rectangle with a subtle drop shadow. It contains two input fields: 'Email' with the value '230701356@rajalakshmi.edu' and 'Phone Number' with the value '7680969437'. A green 'Submit' button is at the bottom.

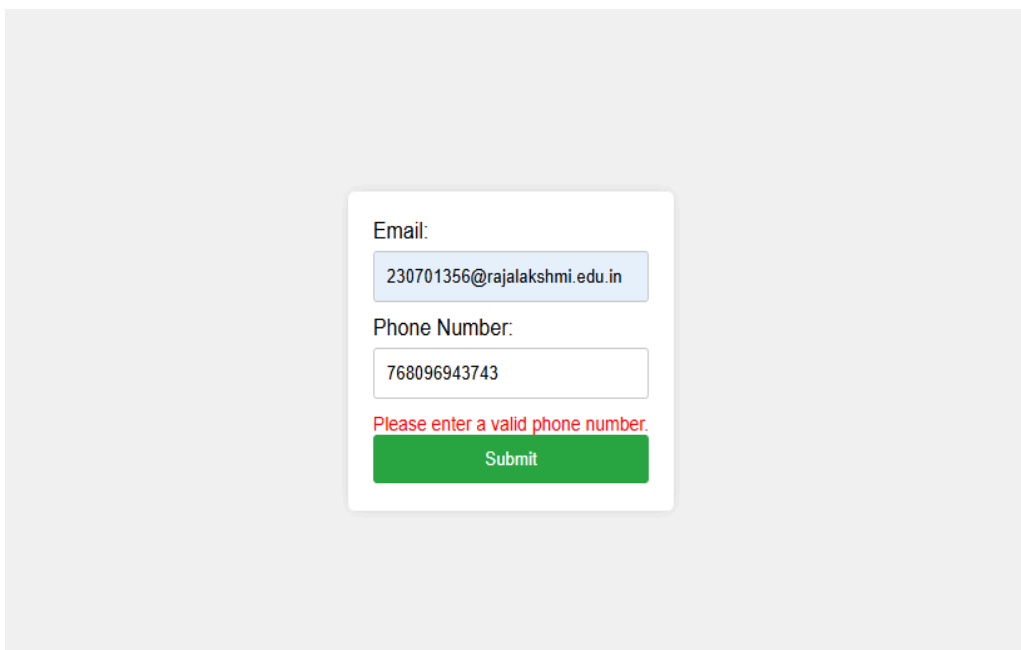
Email:

230701356@rajalakshmi.edu

Phone Number:

7680969437

Submit



A screenshot of the same web form as above, but with a validation error. The 'Phone Number' field now contains '768096943743'. Below the field, a red error message reads 'Please enter a valid phone number.'.

Email:

230701356@rajalakshmi.edu.in

Phone Number:

768096943743

Please enter a valid phone number.

Submit

The image shows a web interface with a light gray background. At the top, there is a light pink notification box with the text "This page says" and "Form submitted successfully!". Below this, centered, is a white form box. The form contains two input fields: "Email:" with the value "230701356@rajalakshmi.edu.in" and "Phone Number:" with the value "7680969437". Below the phone number field, there is a red error message: "Please enter a valid phone number." and a green "Submit" button.

RESULT:

The design input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js is executed successfully