

## **Exercise 9 Date:**

# **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>

```

## OUTPUT:

Email:  Phone Number:

## Step 2: Styling the Form with CSS

Next, add some basic styling to make the form look nice.

### css

```

❏ style.cs
s */
/*

```

```

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:

The image displays three sequential screenshots of a web form, illustrating its behavior during submission and validation.

**Top Left Screenshot:** Shows a successful submission confirmation. A light blue box at the top contains the text "This page says" and "Form submitted successfully!". Below this, a dark grey box contains the form fields: "Email:" with the value "230701086@rajalakshmi.ec", "Phone Number:" with the value "123456789", and a green "Submit" button. An "OK" button is visible in the top right corner of the confirmation box.

**Top Right Screenshot:** Shows the form with valid input. The "Email:" field contains "230701086@rajalakshmi.ec" and the "Phone Number:" field contains "123456789". A green "Submit" button is at the bottom.

**Bottom Screenshot:** Shows a validation error. The "Email:" field contains "gmail.com". A white error message box with an orange exclamation mark icon is displayed, stating: "Please include an '@' in the email address. 'gmail.com' is missing an '@'". The "Phone Number:" field contains "123456789" and a green "Submit" button is at the bottom.