

Exercise 15:

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.css
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 four screenshots of a web form, arranged in a 2x2 grid, illustrating different states of a registration or login process.

- Top Left:** The form has "Email:" with the value "230701059@rajalakshmi.edu.in" and "Phone Number:" with the value "1375". A red error message "Please enter a valid phone number." is shown below the phone number field. A green "Submit" button is at the bottom.
- Top Right:** A dark grey notification box at the top says "127.0.0.1:5500 says Form submitted successfully!". Below it, the form shows the same email and a phone number of "7123789025". A green "Submit" button is at the bottom.
- Bottom Left:** The form has "Email:" with the value "hello@com" and "Phone Number:" with the value "7123789025". A red error message "Please enter a valid email address." is shown below the email field. A green "Submit" button is at the bottom.
- Bottom Right:** This area is mostly dark, showing the background of the application.

RESULT:

The output was verified successfully.