

EXP.NO:9

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USER INTERFACE DESIGN

Roll no:230701258

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 HTML form

Step 2: Styling CSS

Step 3: Adding JavaScript for Validation

Step 1: Setting HTML form

HTML:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Form Validation</title>
7 <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10 <div class="container">
11 <form id="myForm">
12 <label for="email">Email:</label>
13 <input type="email" id="email" name="email" required>
14 <span id="emailError" class="error"></span>
15
16
17 <label for="phone">Phone Number:</label>
18 <input type="text" id="phone" name="phone" required>
19 <span id="phoneError" class="error"></span>
20
```

```
20
21
22 <button type="submit">Submit</button>
23 </form>
24 </div>
25 <script
26 src="https://cdnjs.cloudflare.com/ajax/libs/validator/13.6.0/validator.min.js"></script>
27 <script src="script.js"></script>
28 </body>
29 </html>
```

Step 2: Styling CSS

}

```
1 body {
2   font-family: Arial, sans-serif;
3   background-color: #f4f4f4;
4   display: flex;
5   justify-content: center;
6   align-items: center;
7   height: 100vh;
8   margin: 0;
9 }
10 .container {
11   background-color: white;
12   padding: 20px;
13   border-radius: 5px;
14   box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
15 }
16
17
18 form {
19   display: flex;
20   flex-direction: column;
21 }
22
23
24 label {
25   margin-bottom: 5px;
26 }
27
28
29 input {
30   margin-bottom: 10px;
31   padding: 10px;
32   border: 1px solid #ccc;
33   border-radius: 3px;
34 }
35 button {
36   padding: 10px;
37   background-color: #28a745;
38   color: white;
39   border: none;
40   border-radius: 3px;
```

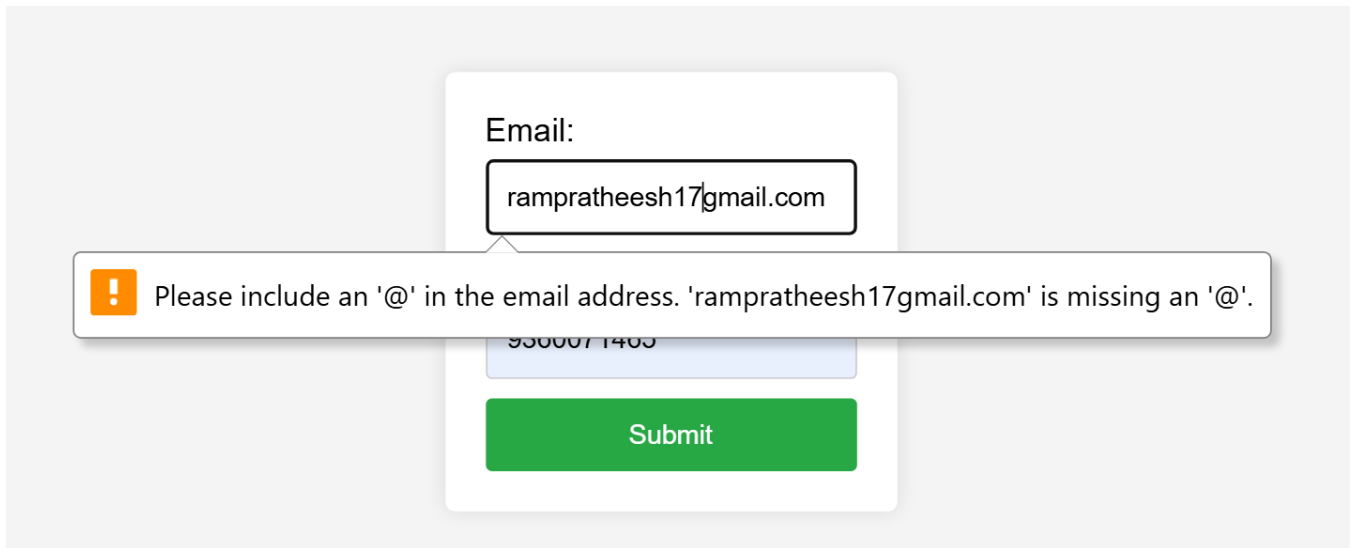
```
41  cursor: pointer;
42  }
43
44  button:hover {
45    background-color: #218838;
46  }
47
48
49  .error {
50    color: red;
51    font-size: 0.875em;
52  }
```

Step 3: Adding JavaScript for Validation

```
1 document.getElementById('myForm').addEventListener('submit', function (e) {
2   e.preventDefault();
3
4
5   let email = document.getElementById('email').value;
6   let phone = document.getElementById('phone').value;
7   let emailError = document.getElementById('emailError');
8   let phoneError = document.getElementById('phoneError');
9   // Clear previous error messages
10  emailError.textContent = '';
11  phoneError.textContent = '';
12  // Validate email
13  if (!validator.isEmail(email)) {
14    emailError.textContent = 'Please enter a valid email address.';
15  }
16  // Validate phone number
17  if (!validator.isMobilePhone(phone, 'any')) {
18    phoneError.textContent = 'Please enter a valid phone number.';
19  }
20  // If no errors, submit the form (for demonstration purposes, we'll just log the values)
21  if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {
22    console.log('Email:', email);
23    console.log('Phone:', phone);
24  }
25  });
```

OUTPUT:

Email Validation:



The image shows a web form for email validation. It features a label 'Email:' above a text input field containing 'rampratheesh17gmail.com'. Below the input field is a green 'Submit' button. A red error message box is displayed, stating: 'Please include an '@' in the email address. 'rampratheesh17gmail.com' is missing an '@'.' The form is set against a light gray background.

Email:

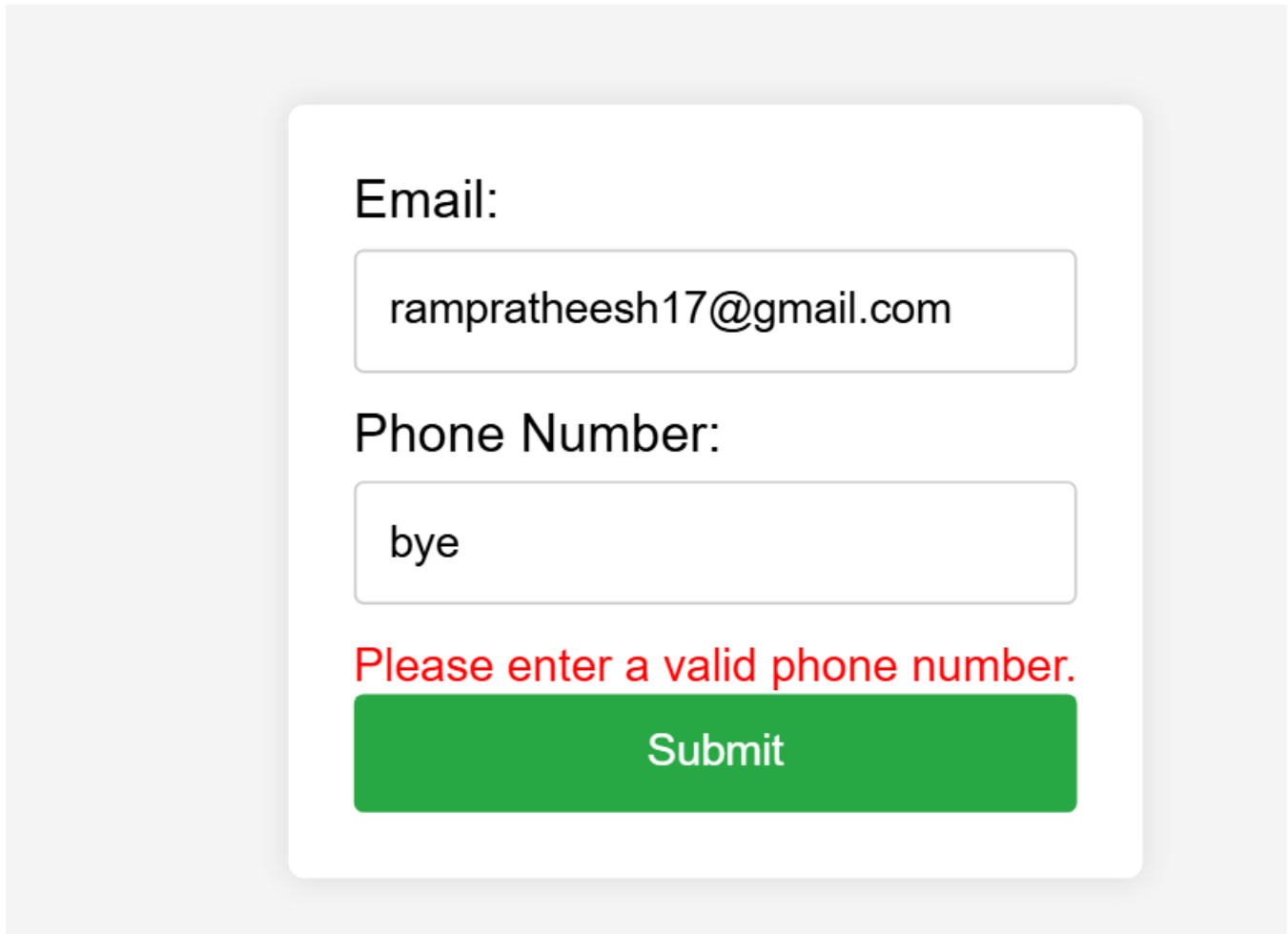
rampratheesh17gmail.com

Please include an '@' in the email address. 'rampratheesh17gmail.com' is missing an '@'.

Submit

In this image the email praveensomasundaram2005gmail.com is missing “@” in the text bar .So a invalid message is appeared in the Screen .

Number Validation:



Email:

rampratheesh17@gmail.com

Phone Number:

bye

Please enter a valid phone number.

Submit

Here, the input us a String .So the error message (Invalid Phone Number) Occurs.

Email:

rampratheesh17@gmail.com

Phone Number:

936000714659

Please enter a valid phone number.

Submit

When the Input Exceeds above 10 numbers the error message is shown.