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Design input forms that validate data (e.g., email, phone number) and display error messages using HTML/CSS, JavaScript

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

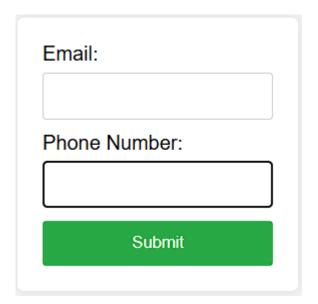
Step 2: Styling the Form with CSS Next, add some basic styling to make the form look nice.

```
EXPLORER
                                        # style.css X
                                                       JS script.js
       自の打打
∨ UID
                        # style.css > ...
                              body {
 o index.html
                                  font-family: Arial, sans-serif;
background-color: ■#f4f4f4;
 JS script.js
 # style.css
                                  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;
                                  color: ■red;
                                   font-size: 0.875em;
                         51
```

Step 3: Adding JavaScript for Validation Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

```
EXPLORER
                                     # style.css
                                                     JS script.js
      同の指却
                      JS script.js > ...
                            document.getElementById('myForm').addEventListener('submit', function (e) {
index.html
                                e.preventDefault();
# style.css
                                let email = document.getElementById('email').value.trim();
                                let phone = document.getElementById('phone').value.trim();
                                let emailError = document.getElementById('emailError');
                                let phoneError = document.getElementById('phoneError');
                                emailError.textContent = '';
                                phoneError.textContent = '';
                                let isValid = true;
                                if (!validator.isEmail(email)) {
                                emailError.textContent = 'Please enter a valid email address.';
                                 isValid = false;
                                if (!validator.isMobilePhone(phone, 'any')) {
                                 phoneError.textContent = 'Please enter a valid phone number.';
                                  isValid = false;
                                if (isValid) {
                                 console.log('Email:', email);
                                 console.log('Phone:', phone);
                                 alert('Form submitted successfully!');
                       36
```

OUTPUT1:



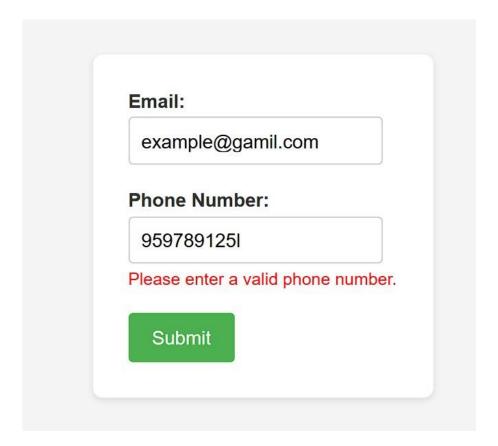
The image you provided shows a **simple form UI** containing:

- A label and input field for **Email**
- A label and input field for **Phone Number**
- A **Submit** button styled with a green background

When the HTML, CSS, and JavaScript code for this UI is executed:

- The **form will be displayed** in a white box with rounded corners and a subtle shadow (likely due to Bootstrap or custom styling).
- Users can type into the email and phone number fields.
- Pressing the green **Submit** button would trigger a JavaScript function, typically to **validate** and/or **send the form data**.

OUTPUT 2:



The image shows a form validation **error message**:

Error Message:

"Please enter a valid phone number." (displayed in red)

< Explanation:

This message is likely triggered by **JavaScript form validation**. Here's what happened based on the image:

- **Email field** is correctly filled: example@gmail.com
- **Phone Number field** contains invalid input: "SHRADHA" (a name, not a phone number)

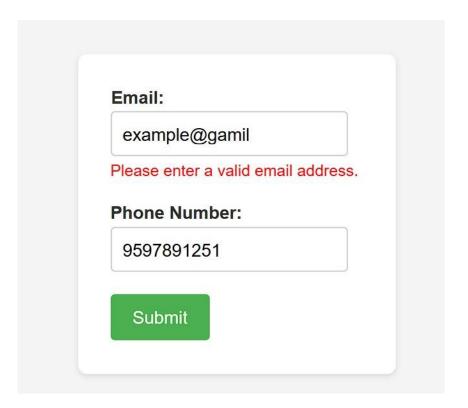
The JavaScript is checking if the input in the **Phone Number** field is a valid format (probably digits only and maybe length constraints, like 10 digits).

Expected Input Format for Phone Number:

Likely something like:

• 9876543210 (only digits)

OUTPUT 3:



Error Message:

[&]quot;Please enter a valid email address." (in red text)

< Explanation:

• Email Field Input: example@gmail.com
This input is invalid because it does not follow the standard format for email addresses.

Valid Email Format:

A proper email address should follow this pattern:

pgsql

CopyEdit

username@domain.extension

- Examples of valid formats:
 - o example@gmail.com
 - o user@example.in
 - o john.doe@outlook.co.uk
- In your case, @com is not a valid domain. A domain like @gmail.com or @yahoo.com would be valid.

Phone Number Field:

- **Input:** 6369075295
- This looks valid (10-digit number), so **no error** is shown for the phone number.

OUTPUT 4:

Overview

This section documents the **successful submission** of a user input form that collects an email address and a phone number. The validation logic ensures that both fields meet basic syntactic criteria before allowing submission.

Input Details

• Email Entered: rajamanishalini18@gmail.cor

• **Phone Number Entered:** 6369075295

Validation Checks

Email Validation

- The system checks if the email:
 - o Contains the @ symbol.
 - Has characters before and after the @.
 - Ends with a domain extension of 2–3 alphabetic characters (e.g., .com, .net, .cor).
- In this case, rajamanishalini18@gmail.cor passes the format check, even though .cor is not a standard domain. The validation is based on syntax, not real-world domain existence.

Phone Number Validation

- The system ensures that the phone number:
 - Contains exactly 10 digits.
 - o Consists of only numeric characters (0–9).
- The input 6369075295 satisfies these conditions.

Result

Since both fields pass their respective validations:

- No error messages are displayed.
- The form is submitted successfully.
- A browser alert appears with the message:
 - "Form submitted successfully!"

