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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.

```
<!-- index.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"></scri
pt>

<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. `/* 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; boxshadow:
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; borderradius:
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.

```
// script.js

document.getElementById('myForm').addEventListener('submit', function (e) {
  e.preventDefault();

  const email = document.getElementById('email').value; const phone =
document.getElementById('phone').value;

  const emailError = document.getElementById('emailError'); const 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 valid, log the input values

  if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {
console.log('Email:', email);  console.log('Phone:', phone);
}
});
```

OUTPUT:

Contact Information

Email:

Phone Number:

RESULT:

Input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js has been designed.