

EXP.NO:9

DATE:26.04.2025

USER INTERFACE DESIGN

Roll no:230701246

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:

```
<!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="ui9.css">
</head>
```

```

<body>

  <div class="container">
    <form id="myForm">
      <h2>Registration Form BY 230701246</h2>

      <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="ui9.js"></script>
</body>
</html>

```

Step 2: Styling CSS

```

/* Modern Form UI */
body {
  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
  background: linear-gradient(135deg, #74ebd5, #acb6e5);
  min-height: 100vh;
  margin: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  animation: fadeIn 1s ease-in;
}

@keyframes fadeIn {
  from { opacity: 0; transform: translateY(-20px); }
  to { opacity: 1; transform: translateY(0); }
}

```

```
}

.container {
  background-color: white;
  padding: 40px 30px;
  border-radius: 12px;
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);
  width: 100%;
  max-width: 400px;
}

form {
  display: flex;
  flex-direction: column;
}

h2 {
  text-align: center;
  margin-bottom: 40px;
  color: #333;
}

label {
  margin-bottom: 8px;
  font-weight: bold;
  color: #555;
}

input {
  margin-bottom: 20px;
  padding: 12px;
  border: 1px solid #ccc;
  border-radius: 6px;
  font-size: 1rem;
  transition: border-color 0.3s, box-shadow 0.3s;
}

input:focus {
  border-color: #5c6bc0;
  box-shadow: 0 0 5px rgba(92, 107, 192, 0.5);
  outline: none;
}
```

```

button {
  padding: 12px;
  background-color: #5c6bc0;
  color: white;
  font-size: 1rem;
  border: none;
  border-radius: 6px;
  cursor: pointer;
  transition: background-color 0.3s;
}

button:hover {
  background-color: #3f51b5;
}

.error {
  color: red;
  font-size: 0.875em;
  margin-top: -15px;
  margin-bottom: 10px;
}

```

Step 3: Adding JavaScript for Validation

```

// 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 (here, just log the values)
if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {
  console.log('Email:', email);
  console.log('Phone:', phone);
  alert('Form submitted successfully!');
  // You can actually submit the form here if needed
  // e.target.submit();
}
});

```

OUTPUT:

Email Validation:

Input Form BY 230701246

Email:

praveensomasundaram2005gmail.com

7010176099

Submit

! Please include an '@' in the email address. 'praveensomasundaram2005gmail.com' is missing an '@'.

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

Number Validation:



Input Form BY 230701246

Email:

praveensomasundaram2005@gmail.com

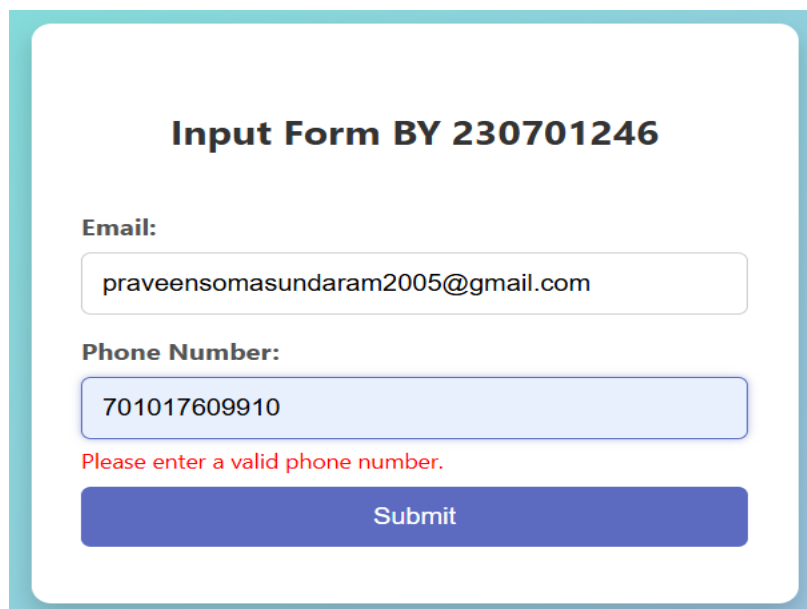
Phone Number:

hello

Please enter a valid phone number.

Submit

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



Input Form BY 230701246

Email:

praveensomasundaram2005@gmail.com

Phone Number:

701017609910

Please enter a valid phone number.

Submit

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