

USER INTERFACE DESIGN

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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</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();
    }
});

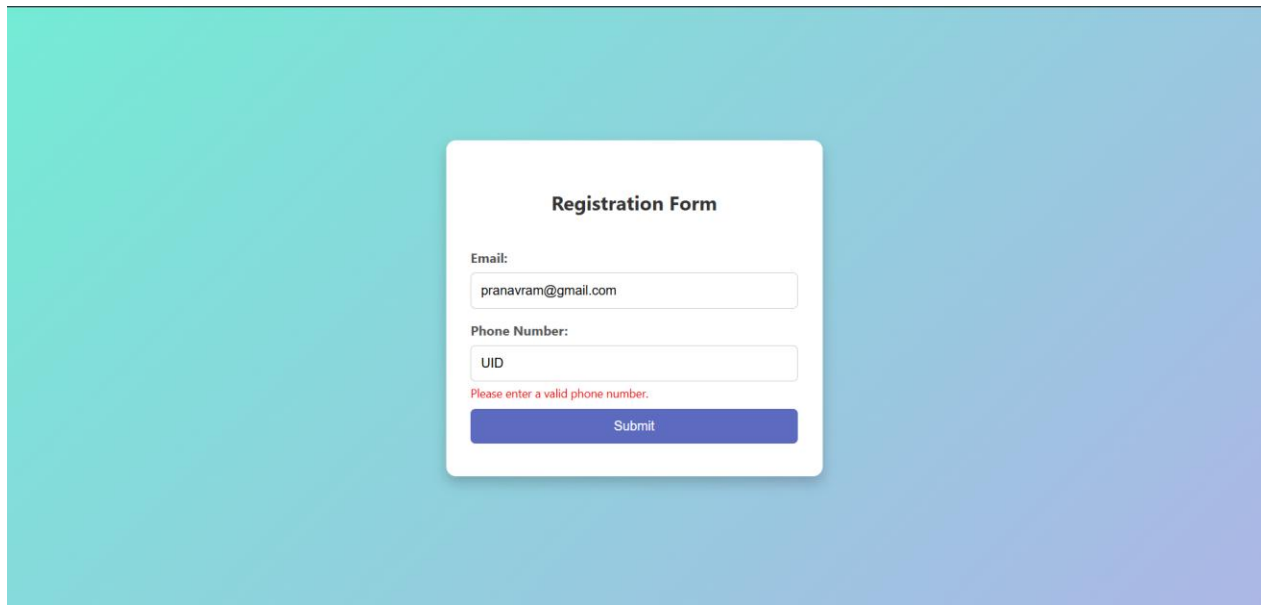
```

OUTPUT:

Email Validation:

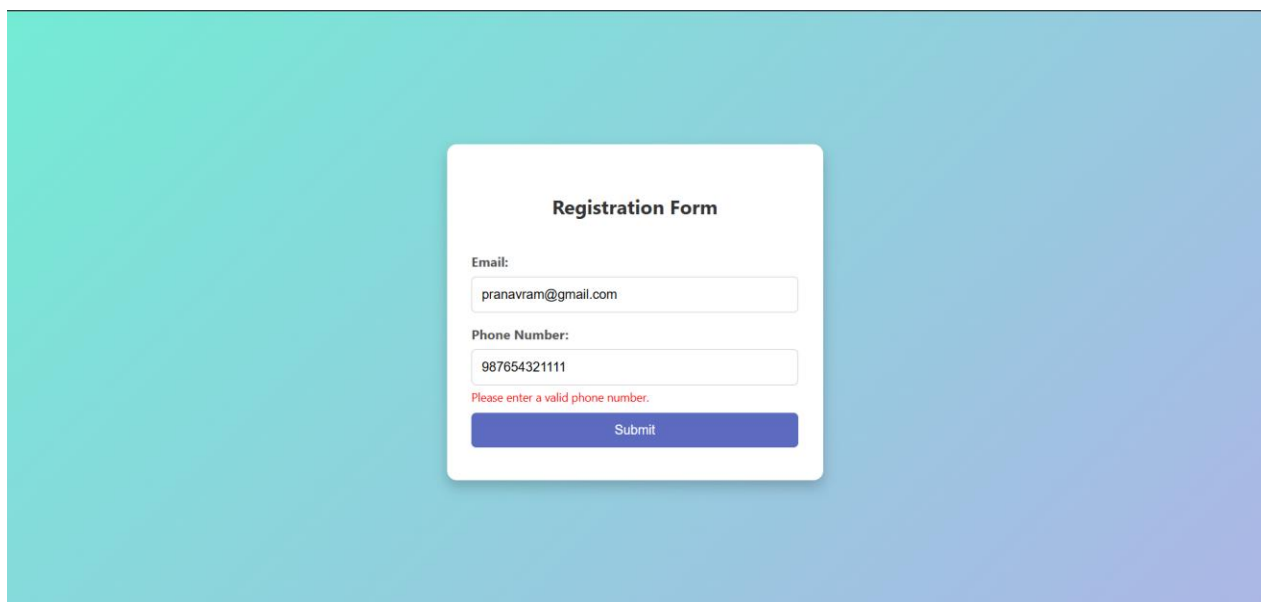
In this image the email Pranavram@gmail.com is missing “@” in the text bar .So a invalid message is appeared in the Screen .

Number Validation:



The image shows a registration form titled "Registration Form" on a light blue gradient background. The form has two input fields: "Email:" with the value "pranavram@gmail.com" and "Phone Number:" with the value "UID". Below the "Phone Number:" field, there is a red error message that reads "Please enter a valid phone number." and a blue "Submit" button.

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



The image shows the same registration form as above, but with the "Phone Number:" field containing the numeric string "987654321111". The red error message "Please enter a valid phone number." is still displayed below the field, and the blue "Submit" button remains at the bottom.

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