Excercise 9 Date:

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.

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>

<label for="phone">Phone Number:</label>

<input type="text" id="phone" name="phone" required>

<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="script.js"></script>

</body>

</html>

Step 2: Styling the Form with CSS

Next, add some basic styling to make the form look nice.

css

/* 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;
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;

}

.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.

javascript

/* 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 (for demonstration purposes, we'll just log the values)

if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) {

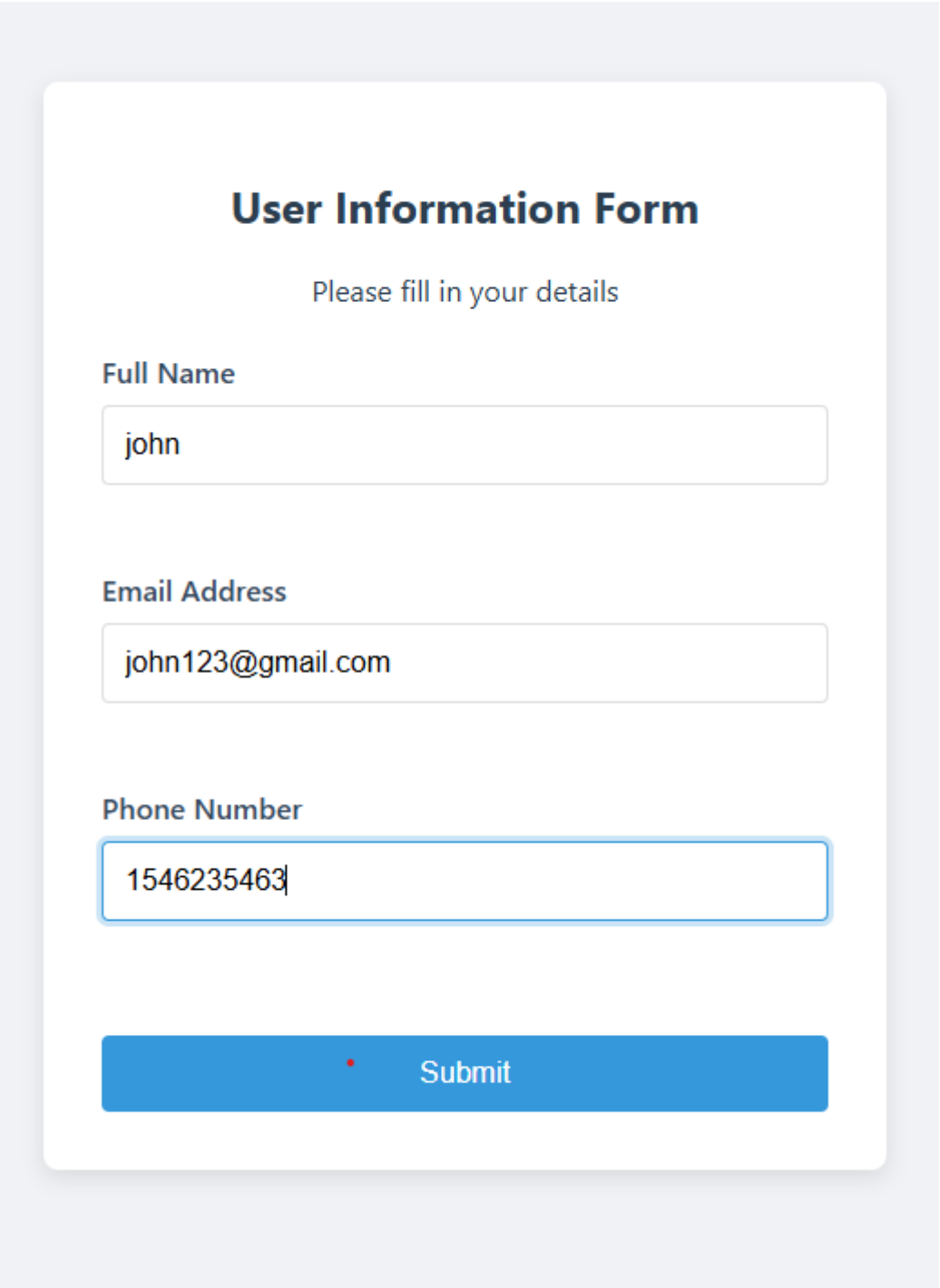
console.log('Email:', email);

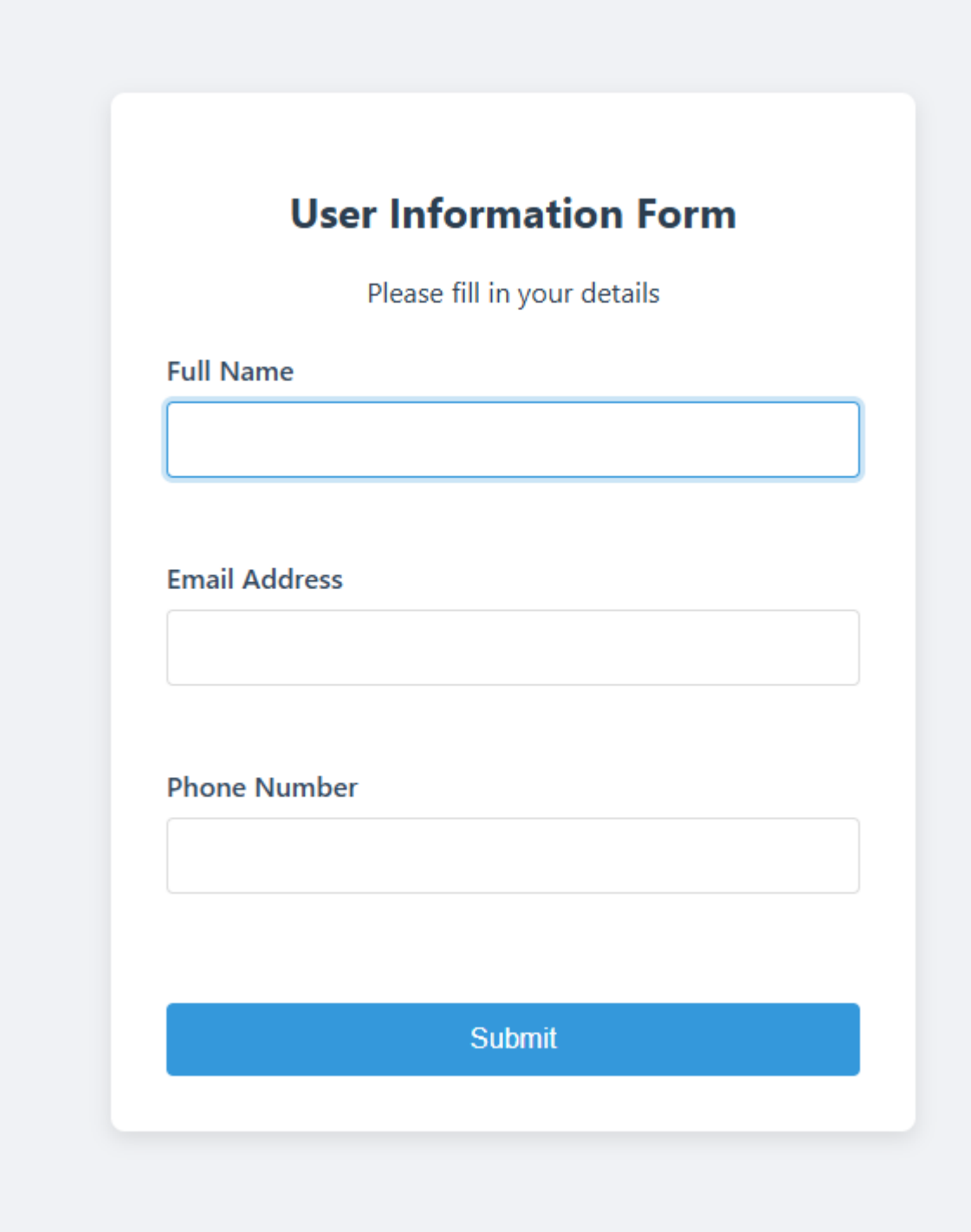
console.log('Phone:', phone);

}

});

Output


User Information Form
Please fill in your details
Full Name
john
Email Address
john123@gmail.com
Phone Number
1546235463
Submit



Result

The input form was successfully designed using HTML and styled with CSS. Validation of user inputs such as email and phone number were effectively implemented using JavaScript with the Validator.js library. The form displayed appropriate error messages for invalid inputs and allowed submission only when all data was valid, thereby ensuring accurate and user-friendly data entry.