USER INTERFACE DESIGN

EXERCISE – 9

FORM VALIDATION USING HTML/CSS/JS

230701222

This exercise is about creating a simple validation (email, phone number) and display error messages if its not valid.

It is a very simple one and is done by coding in HTML (for displaying), CSS (for styling), JS (for interactive actions)

HTML – Hyper Text Markup Language

CSS - Cascading Style Sheets

JS – Java Script

HTML Code:

```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>
```

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

CSS code:

```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 {
```

```css
        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;
        }
```

JS code:

```javascript
document.getElementById('myForm').addEventListener('submit', function(event){
    event.preventDefault(); // Prevent form from submitting

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

    emailError.textContent = '';
    phoneError.textContent = '';

    let valid = true;

    if (!validator.isEmail(email)) {
        emailError.textContent = 'Invalid email format.';
```
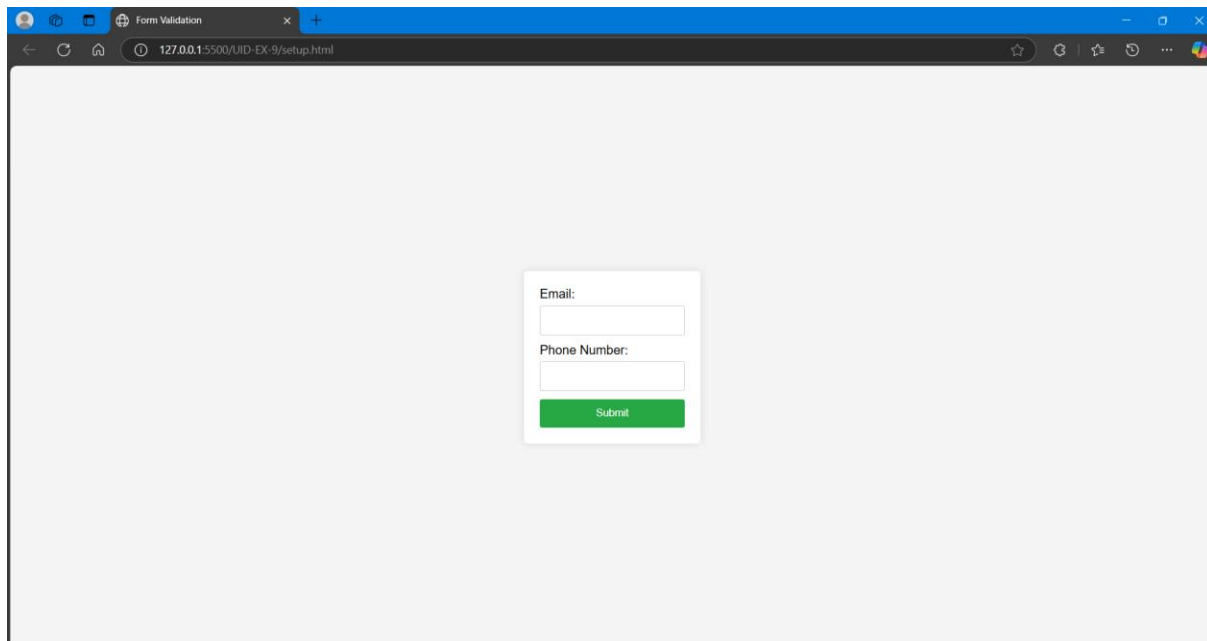
```
        valid = false;
    }

    if (!validator.isMobilePhone(phone, 'any')) {
        phoneError.textContent = 'Invalid phone number.';
        valid = false;
    }

    if (valid) {
        alert('Form submitted successfully!');
        // You can also reset the form if you want
        // document.getElementById('myForm').reset();
    }
});
```

The above are the given codes for your validation form.

Output:

This can be run on any server.

Usage: