**Title : Form validation by using html, css and javascript.**

**Index.html**

<!-- Data Validation

Data validation is the process of ensuring that user input is clean, correct, and useful.

Typical validation tasks are:

has the user filled in all required fields?

has the user entered a valid date?

has the user entered text in a numeric field?

Most often, the purpose of data validation is to ensure correct user input.

Validation can be defined by many different methods, and deployed in many different ways.

Server side validation is performed by a web server, after input has been sent to the server.

Client side validation is performed by a web browser, before input is sent to a web server. -->

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>JavaScript Form Validation</title>

    <link rel="stylesheet" href="style.css">

</head>

<body>

    <h1>Welcome to the best form on Internet!</h1>

    <form aciton ="/myaction.php" name="myForm" onsubmit="return validateForm()" method="post">

        <div class="formdesign" id="name">

            Name: <input type="text" name="fname" required><b><span class="formerror"> </span></b>

        </div>

        <div class="formdesign" id="email">

            Email: <input type="email" name="femail" required><b><span class="formerror"> </span></b>

        </div>

        <div class="formdesign" id="phone">

            Phone: <input type="phone" name="fphone" required><b><span class="formerror"></span></b>

        </div>

        <div class="formdesign" id="pass">

            Password: <input type="password" name="fpass" required><b><span class="formerror"</span></b>

        </div>

        <div class="formdesign" id="cpass">

            Confirm Password: <input type="password" name="fcpass" required><b><span class="formerror"></span></b>

        </div>

        <input class="but" type="submit" value="Submit">

    </form>

</body>

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

</html>

**style.css**

body {

    padding: 10px 50px;

}

.formdesign {

    font-size: 20px;

}

.formdesign input {

    width: 50%;

    padding: 12px 20px;

    border: 1px solid blue;

    margin: 14px;

    border-radius: 4px;

    font-size: 15px;

}

.formerror {

    color: red;

}

.but {

    border-radius: 9px;

    width: 100px;

    height: 50px;

    font-size: 25px;

    margin: 22px 20px;

}

**Index.js**

function clearErrors(){

    errors = document.getElementsByClassName('formerror');

    for(let item of errors)

    {

        item.innerHTML = "";

    }

}

function seterror(id, error){

    //sets error inside tag of id

    element = document.getElementById(id);

    element.getElementsByClassName('formerror')[0].innerHTML = error;

}

function validateForm(){

    var returnval = true;

    clearErrors();

    //perform validation and if validation fails, set the value of returnval to false

    var name = document.forms['myForm']["fname"].value;

    if (name.length<5){

        seterror("name", "\*Length of name is too short");

        returnval = false;

    }

    if (name.length == 0){

        seterror("name", "\*Length of name cannot be zero!");

        returnval = false;

    }

    var email = document.forms['myForm']["femail"].value;

    if (email.length>15){

        seterror("email", "\*Email length is too long");

        returnval = false;

    }

    var phone = document.forms['myForm']["fphone"].value;

    if (phone.length != 10){

        seterror("phone", "\*Phone number should be of 10 digits!");

        returnval = false;

    }

    var password = document.forms['myForm']["fpass"].value;

    if (password.length < 6){

        // Quiz: create a logic to allow only those passwords which contain atleast one letter, one number and one special character and one uppercase letter

        seterror("pass", "\*Password should be atleast 6 characters long!");

        returnval = false;

    }

    var cpassword = document.forms['myForm']["fcpass"].value;

    if (cpassword != password){

        seterror("cpass", "\*Password and Confirm password should match!");

        returnval = false;

    }

    return returnval;

}