Assignment 4

Q.Write JavaScript to validate the following fields of the Registration page.

1. First Name (Name should contains alphabets and the length should not be less than 6 characters).

2. Password (Password should not be less than 6 characters length).

3. E-mail id (should not contain any invalid and must follow the standard pattern name@domain.com)

4. Mobile Number (Phone number should contain 10 digits only)

5. Last Name and Address (should not be Empty).

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Dynamic Registration Form</title>

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

</head>

<body>

<div class="form-container">

<h2>Registration Form</h2>

<form id="registrationForm" onsubmit="return validateForm()">

<!-- First Name -->

<label for="firstName">First Name:</label>

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

<span id="firstNameError" class="error"></span>

<!-- Last Name -->

<label for="lastName">Last Name:</label>

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

<span id="lastNameError" class="error"></span>

<!-- Password -->

<label for="password">Password:</label>

<input type="password" id="password" name="password" required>

<span id="passwordError" class="error"></span>

<!-- Email -->

<label for="email">Email:</label>

<input type="email" id="email" name="email" required>

<span id="emailError" class="error"></span>

<!-- Mobile Number -->

<label for="mobileNumber">Mobile Number:</label>

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

<span id="mobileNumberError" class="error"></span>

<!-- Address -->

<label for="address">Address:</label>

<textarea id="address" name="address" required></textarea>

<span id="addressError" class="error"></span>

<!-- Submit Button -->

<button type="submit">Register</button>

</form>

</div>

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

</body>

</html>

2.css

body {

font-family: Arial, sans-serif;

background-color: #f4f4f4;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.form-container {

background-color: #fff;

padding: 20px;

border-radius: 8px;

box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);

width: 400px;

}

h2 {

text-align: center;

margin-bottom: 20px;

}

label {

display: block;

margin-bottom: 8px;

font-weight: bold;

}

input, textarea {

width: 100%;

padding: 8px;

margin-bottom: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

button {

width: 100%;

padding: 10px;

background-color: #4CAF50;

color: white;

border: none;

border-radius: 4px;

font-size: 16px;

cursor: pointer;

}

button:hover {

background-color: #45a049;

}

.error {

color: red;

font-size: 12px;

}

3.jss

function validateForm() {

clearErrors();

let isValid = true;

const firstName = document.getElementById('firstName').value;

const lastName = document.getElementById('lastName').value;

const password = document.getElementById('password').value;

const email = document.getElementById('email').value;

const mobileNumber = document.getElementById('mobileNumber').value;

const address = document.getElementById('address').value;

const namePattern = /^[A-Za-z]+$/;

if (firstName.length < 6 || !namePattern.test(firstName)) {

document.getElementById('firstNameError').innerText = "First Name must contain only alphabets and be at least 6 characters long.";

isValid = false;

}

if (lastName.trim() === "") {

document.getElementById('lastNameError').innerText = "Last Name should not be empty.";

isValid = false;

}

if (password.length < 6) {

document.getElementById('passwordError').innerText = "Password should be at least 6 characters long.";

isValid = false;

}

const emailPattern = /^[a-zA-Z0-9.\_-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;

if (!emailPattern.test(email)) {

document.getElementById('emailError').innerText = "Please enter a valid email address (name@domain.com).";

isValid = false;

}

const mobilePattern = /^[0-9]{10}$/;

if (!mobilePattern.test(mobileNumber)) {

document.getElementById('mobileNumberError').innerText = "Mobile Number should contain exactly 10 digits.";

isValid = false;

}

if (address.trim() === "") {

document.getElementById('addressError').innerText = "Address should not be empty.";

isValid = false;

}

return isValid;

}

function clearErrors() {

const errors = document.querySelectorAll('.error');

errors.forEach(error => {

error.innerText = '';

});

}