IT & Computer Science

Instructor Name: Mr. Umer Farooq Lab Engr: Mr. Khizar Hayat

Name: Abuzar Khan Reg #: B22F1053SE23

Section: <u>SE (GREEN)</u> **Date:** <u>15/04/2025</u>

Lab 09

JavaScript Form Validation

Task 1: Implement a Complete Form with Validation.

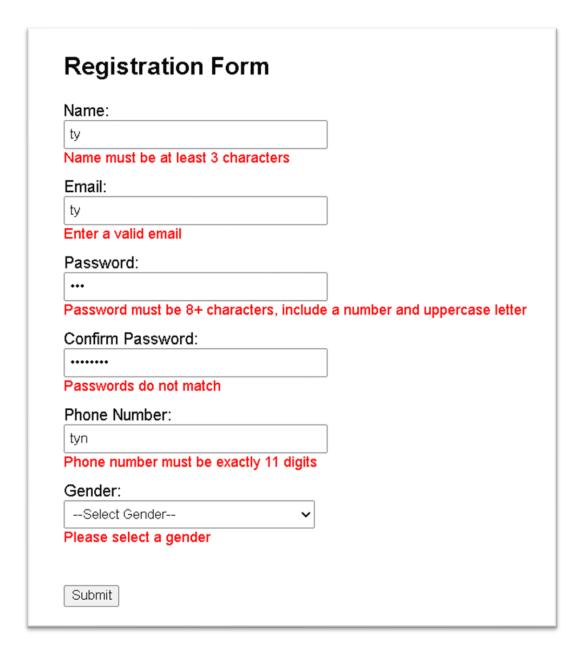
Code:

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Registration Form</title>
    <style>
       body {
            font-family: Arial;
            margin: 40px;
        label {
            display: block;
            margin-top: 10px;
        input, select {
            padding: 5px;
            width: 250px;
        .error {
            color: red;
            font-size: 14px;
    </style>
<body>
    <h2>Registration Form</h2>
    <form onsubmit="return validateForm()">
        <label>Name:</label>
        <input type="text" id="name" />
        <div class="error" id="nameError"></div>
        <label>Email:</label>
        <input type="text" id="email" />
        <div class="error" id="emailError"></div>
```

```
<label>Password:</label>
        <input type="password" id="password" />
        <div class="error" id="passwordError"></div>
        <label>Confirm Password:</label>
        <input type="password" id="confirmPassword" />
        <div class="error" id="confirmPasswordError"></div>
        <label>Phone Number:</label>
        <input type="text" id="phone" />
        <div class="error" id="phoneError"></div>
        <label>Gender:</label>
        <select id="gender">
        <option value="">--Select Gender--</option>
        <option value="male">Male</option>
        <option value="female">Female</option>
        <option value="other">Other</option>
        </select>
        <div class="error" id="genderError"></div>
        <br><br><br>></pr>
        <button type="submit">Submit</button>
    </form>
    <script>
       function validateForm() {
       let valid = true;
        document.querySelectorAll('.error').forEach(e => e.innerText = "");
       let name = document.getElementById("name").value;
        if (name.length < 3) {</pre>
            document.getElementById("nameError").innerText = "Name must be at least 3
characters";
           valid = false;
       let email = document.getElementById("email").value;
        let emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        if (!emailRegex.test(email)) {
            document.getElementById("emailError").innerText = "Enter a valid email";
            valid = false;
       let password = document.getElementById("password").value;
```

```
let passRegex = /^(?=.*[A-Z])(?=.*\d).{8,}$/;
        if (!passRegex.test(password)) {
            document.getElementById("passwordError").innerText = "Password must be 8+
characters, include a number and uppercase letter";
            valid = false;
        let confirmPassword = document.getElementById("confirmPassword").value;
        if (password !== confirmPassword) {
            document.getElementById("confirmPasswordError").innerText = "Passwords do not
match";
            valid = false;
        let phone = document.getElementById("phone").value;
        if (!/^\d{11}$/.test(phone)) {
            document.getElementById("phoneError").innerText = "Phone number must be exactly
11 digits";
            valid = false;
        let gender = document.getElementById("gender").value;
        if (gender === "") {
            document.getElementById("genderError").innerText = "Please select a gender";
            valid = false;
        return valid;
    </script>
</body>
 html>
```

Output: When i enter wrong form fields



Explanation:

In this Lab we work on JavaScript form validation to validate user input base on criteria: In this lab there was task for each input:

• Name: Should be at least 3 characters

• Email: Should be valid Email

• Password: Should be match with confirm

• **Ph Number:** Must be 11 digits

• **Gender:** Should be select one option

For each validation i write a JavaScript code with one form validation function and also div for displaying all the errors when occur.