

**Green University of Bangladesh**

**Department of Computer Science and Engineering (CSE)**

**Faculty of Sciences and Engineering Semester : (Spring, Year : 2025), B.Sc. in CSE (Day)**

**Assignment-01**

**Course Title : Web Programming**

**Course Code : CSE 301 Section : 231-D1**

**Assignment Name : Build a User Registration Form Using HTML,CSS,JavaScript**

**Student Details**

| **Name** | | **ID** |
| --- | --- | --- |
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**Submission Date : 18/05/2025**

**Course Teacher’s Name : Abida Sultana**

**[For Teachers use only: Don’t Write Anything inside this box]**



**1. Create a user registration form using HTML, style it with CSS, and implement form validation using JavaScript.**

**Implementation:**

**index.html**

| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8" />**  **<meta name="viewport" content="width=device-width, initial-scale=1.0" />**  **<title>User Registration Form</title>**  **<link rel="stylesheet" href="style.css" />**  **</head>**  **<body>**  **<div class="container">**  **<h2>User Registration Form</h2>**  **<form id="registrationForm">**  **<div class="form-group">**  **<label for="fullName">Full Name</label>**  **<input type="text" id="fullName" name="fullName" required placeholder="Enter your full name" />**  **<small class="error" id="nameError"></small>**  **</div>**  **<div class="form-group">**  **<label for="email">Email Address</label>**  **<input type="email" id="email" name="email" required placeholder="Enter your email" />**  **<small class="error" id="emailError"></small>**  **</div>**  **<div class="form-row">**  **<div class="form-group">**  **<label for="password">Password</label>**  **<input type="password" id="password" name="password" required placeholder="Create a password" />**  **<small class="error" id="passwordError"></small>**  **</div>**  **<div class="form-group">**  **<label for="confirmPassword">Confirm Password</label>**  **<input type="password" id="confirmPassword" name="confirmPassword" required placeholder="Confirm your password" />**  **<small class="error" id="confirmPasswordError"></small>**  **</div>**  **</div>**  **<div class="form-group">**  **<label>Gender</label>**  **<div class="radio-group">**  **<label class="radio-label">**  **<input type="radio" name="gender" value="Male" /> Male**  **</label>**  **<label class="radio-label">**  **<input type="radio" name="gender" value="Female" /> Female**  **</label>**  **<label class="radio-label">**  **<input type="radio" name="gender" value="Other" /> Other**  **</label>**  **</div>**  **<small class="error" id="genderError"></small>**  **</div>**  **<div class="form-row">**  **<div class="form-group">**  **<label for="dob">Date of Birth</label>**  **<input type="date" id="dob" name="dob" required />**  **<small class="error" id="dobError"></small> </div>**  **<div class="form-group">**  **<label for="phone">Phone Number</label>**  **<input type="tel" id="phone" name="phone" required placeholder="Enter your phone number" />**  **<small class="error" id="phoneError"></small>**  **</div>**  **</div>**  **<div class="form-group">**  **<label for="country">Country</label>**  **<select id="country" name="country" required>**  **<option value="">-- Select Country --</option>**  **<option value="USA">USA</option>**  **<option value="Canada">Canada</option>**  **<option value="UK">UK</option>**  **<option value="Australia">Australia</option>**  **<option value="Bangladesh">Bangladesh</option>**  **<option value="India">India</option>**  **</select>**  **<small class="error" id="countryError"></small> </div>**  **<div class="form-group checkbox-group">**  **<input type="checkbox" id="terms" name="terms" />**  **<label for="terms">I agree to the <a href="#">Terms and Conditions</a></label>**  **<small class="error" id="termsError"></small>**  **</div>**  **<div class="form-group">**  **<button type="submit" class="submit-btn">Register</button>**  **</div>**  **</form>**  **</div>**  **<script src="script.js"></script> </body>**  **</html>** |
| --- |

**script.js**

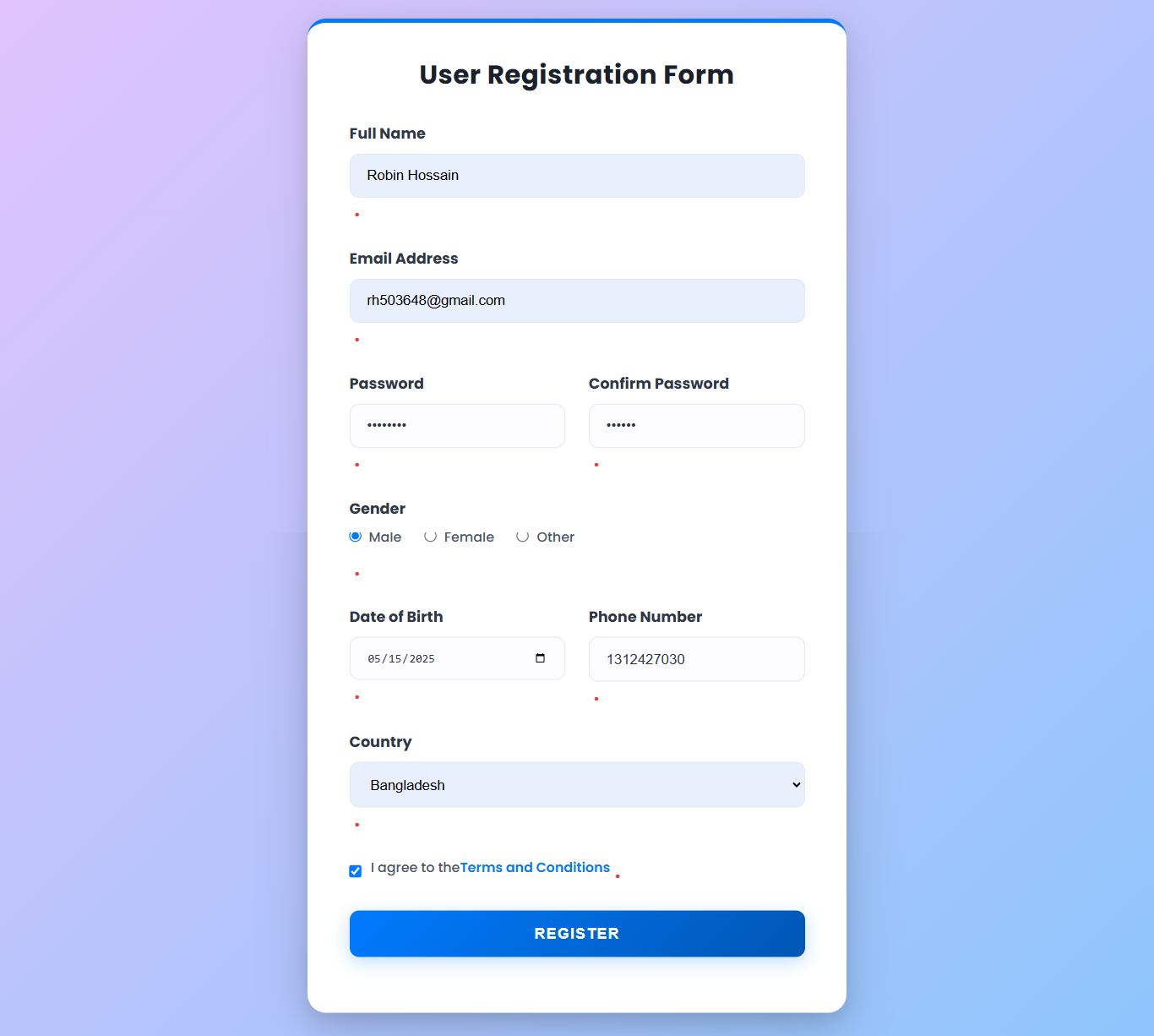
| **document.addEventListener("DOMContentLoaded", function() {**  **document.getElementById("registrationForm").addEventListener("submit", function (e) {**  **e.preventDefault();**  **let isValid = true;**  **document.querySelectorAll(".error").forEach(el => el.textContent = "");**  **const fullName = document.getElementById("fullName").value.trim();**  **const email = document.getElementById("email").value.trim();**  **const password = document.getElementById("password").value;**  **const confirmPassword = document.getElementById("confirmPassword").value;**  **const dob = document.getElementById("dob").value; const phone = document.getElementById("phone").value.trim();**  **const country = document.getElementById("country").value;**  **const genderSelected = document.querySelector('input[name="gender"]:checked');**  **const termsChecked = document.getElementById("terms").checked;**  **const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;**  **const phonePattern = /^\d{10}$/; // Assumes 10-digit phone number**  **if (fullName.length < 3) {**  **document.getElementById("nameError").textContent = "Full Name must be at least 3 characters long.";**  **isValid = false;**  **}**  **if (!emailPattern.test(email)) {**  **document.getElementById("emailError").textContent = "Please enter a valid email address.";**  **isValid = false;**  **}**    **if (password.length < 6) {**  **document.getElementById("passwordError").textContent = "Password must be at least 6 characters.";**  **isValid = false;**  **}**  **if (password !== confirmPassword) {**  **document.getElementById("confirmPasswordError").textContent = "Passwords do not match.";**  **isValid = false;**  **} else if (confirmPassword === "" && password.length >=6 ) {**  **document.getElementById("confirmPasswordError").textContent = "Please confirm your password.";**  **isValid = false;**  **}**    **if (!genderSelected) {**  **document.getElementById("genderError").textContent = "Please select your gender.";**  **isValid = false;**  **}**  **if (dob === "") {**  **document.getElementById("dobError").textContent = "Please enter your Date of Birth.";**  **isValid = false;**  **}**    **if (!phonePattern.test(phone)) {**  **document.getElementById("phoneError").textContent = "Phone number must be exactly 10 digits.";**  **isValid = false;**  **}**    **if (country === "") {**  **document.getElementById("countryError").textContent = "Please select your country.";**  **isValid = false;**  **}**    **if (!termsChecked) {**  **document.getElementById("termsError").textContent = "You must agree to the terms and conditions.";**  **isValid = false;**  **}**  **if (isValid) {**  **alert("Form submitted successfully!");**      **document.getElementById("registrationForm").reset(); });**  **});** |
| --- |

**style.css**

| **\* {**  **margin: 0;**  **padding: 0;**  **box-sizing: border-box;**  **}**  **body {**  **background: linear-gradient(135deg, #e0c3fc 0%, #8ec5fc 100%);**  **font-family: 'Poppins', sans-serif;**  **min-height: 100vh;**  **display: flex;**  **align-items: center;**  **justify-content: center;**  **padding: 20px;**  **}**  **.container {**  **background: #ffffff;**  **padding: 35px 45px**  **border-radius: 20px;**    **box-shadow: 0 15px 45px rgba(0, 0, 0, 0.12), 0 5px 15px rgba(0, 0, 0, 0.08);**  **width: 100%;**  **max-width: 580px;**  **border-top: 5px solid #007bff;**  **transition: transform 0.3s ease-out, box-shadow 0.3s ease-out;**  **}**  **.container:hover {**  **transform: translateY(-5px);**  **box-shadow: 0 20px 55px rgba(0, 0, 0, 0.15), 0 8px 20px rgba(0, 0, 0, 0.1);**  **}**  **.container h2 {**  **text-align: center;**  **margin-bottom: 30px;**  **color: #1A202C;**  **font-weight: 700;**  **font-size: 1.75em;**  **letter-spacing: 0.5px;**  **}**  **.form-group {**  **margin-bottom: 25px;**  **.form-group label {**  **display: block;**  **margin-bottom: 10px;**  **font-weight: 700;**  **color: #2D3748;**  **font-size: 1em;**  **}**  **.form-group input[type="text"],**  **.form-group input[type="email"],**  **.form-group input[type="password"],**  **.form-group input[type="date"],**  **.form-group input[type="tel"],**  **.form-group select {**  **width: 100%;**  **border: 1px solid #e2e8f0;**  **border-radius: 10px**  **font-size: 0.95em;**  **background-color: #fdfdff;**  **color: #2D3748;**  **transition: border-color 0.2s ease-in-out, box-shadow 0.2s ease-in-out, background-color 0.2s ease;**  **}**  **.form-group input::placeholder {**  **color: #a0aec0;**  **}**  **.form-group input:focus,**  **.form-group select:focus {**  **border-color: #007bff;**  **background-color: #fff;**  **outline: none;**  **box-shadow: 0 0 0 3.5px rgba(0, 123, 255, 0.15), 0 1px 3px rgba(0,0,0,0.05) inset;**  **}**  **.form-row {**  **display: flex;**  **flex-wrap: wrap;**  **gap: 25px;**  **}**  **.form-row .form-group {**  **flex: 1;**  **min-width: calc(50% - 12.5px);**    **}**  **.radio-group,**  **.checkbox-group {**  **margin-top: 12px;**  **display: flex;**  **flex-wrap: wrap;**  **align-items: center;**  **}**  **.radio-group .radio-label {**  **margin-right: 25px;**  **font-weight: 500;**  **color: #4A5568;**  **display: flex;**  **align-items: center;**  **cursor: pointer;**  **font-size: 0.9em;**  **}**  **..radio-group .radio-label input[type="radio"] {**  **margin-right: 8px;**  **accent-color: #007bff;**  **transform: scale(1.1);**  **}**  **.checkbox-group label {**  **font-weight: 500;**  **color: #4A5568;**  **display: flex;**  **align-items: center;**  **cursor: pointer;**  **font-size: 0.9em;**  **}**  **.checkbox-group input[type="checkbox"] {**  **margin-right: 10px;**  **accent-color: #007bff;**  **transform: scale(1.1);**  **}**  **.checkbox-group a {**  **color: #007bff;**  **text-decoration: none;**  **font-weight: 600;**  **}**  **.checkbox-group a:hover {**  **text-decoration: underline;**  **color: #0056b3;**  **}**  **.error {**  **color: #e53e3e;**  **font-size: 0.85em;**  **display: block;**  **margin-top: 8px;**  **font-weight: 600;**  **padding-left: 5px;**  **}**  **.error::before {**  **content: "•";**  **margin-right: 6px;**  **font-weight: bold;**  **}**  **.submit-btn {**  **width: 100%;**  **padding: 15px 20px;**  **background: linear-gradient(135deg, #007bff 0%, #0056b3 100%);**  **color: white;**  **font-weight: 700;**  **font-size: 1.05em;**  **text-transform: uppercase;**  **letter-spacing: 0.8px;**  **border: none;**  **border-radius: 10px;**  **cursor: pointer;**  **transition: background 0.3s ease, transform 0.25s ease-out, box-shadow 0.3s ease-out;**  **position: relative;**  **overflow: hidden;**  **z-index: 1;**  **box-shadow: 0 5px 18px rgba(0, 123, 255, 0.25);**  **}**  **.submit-btn::before {**  **content: "";**  **position: absolute;**  **top: 50%;**  **left: 50%;**  **width: 0;**  **height: 0;**  **background: rgba(255, 255, 255, 0.2);**  **border-radius: 50%;**  **transform: translate(-50%, -50%);**  **opacity: 0;**  **transition: width 0.5s cubic-bezier(0.22, 1, 0.36, 1),**  **height 0.5s cubic-bezier(0.22, 1, 0.36, 1),**  **opacity 0.5s cubic-bezier(0.22, 1, 0.36, 1);**  **z-index: -1;**  **}**  **.submit-btn:hover {**  **background: linear-gradient(135deg, #0069d9 0%, #004085 100%);**  **transform: translateY(-4px) scale(1.01);**  **box-shadow: 0 8px 25px rgba(0, 91, 179, 0.35);**  **}**  **.submit-btn:hover::before {**  **width: 300%;**  **height: 300%;**  **opacity: 1;**  **animation: lightPulse 0.7s ease-out forwards;**  **}**  **@keyframes lightPulse {**  **0% { width: 0; height: 0; opacity: 0.3; }**  **50% { opacity: 0.1; }**  **100% { width: 300%; height: 300%; opacity: 0; }**  **}**  **.submit-btn:active {**  **transform: translateY(-1px) scale(0.99);**  **background: linear-gradient(135deg, #004085 0%, #00274f 100%);**  **box-shadow: 0 3px 10px rgba(0, 64, 133, 0.2);**  **}**  **.logo {**  **display: block;**  **margin: 0 auto 20px;**  **width: 90px;**  **}**  **@media (max-width: 768px) {**  **.container {**  **margin: 20px;**  **padding: 30px;**  **border-top-width: 4px;**  **}**  **.container h2 {**  **font-size: 1.6em;**  **}**  **.form-row {**  **flex-direction: column;**  **gap: 0;**  **}**  **.form-row .form-group {**  **min-width: 100%;**  **margin-bottom: 25px;**  **}**  **.form-row .form-group:last-child {**  **margin-bottom: 0;**  **}**  **}**  **@media (max-width: 480px) {**  **body {**  **padding: 15px;**  **}**  **.container {**  **padding: 25px 20px;**  **border-radius: 16px;**  **}**  **.container h2 {**  **font-size: 1.45em;**  **margin-bottom: 25px;**  **}**  **.form-group label {**  **font-size: 0.95em;**  **margin-bottom: 8px;**  **}**  **.form-group input[type="text"],**  **.form-group input[type="email"],**  **.form-group input[type="password"],**  **.form-group input[type="date"],**  **.form-group input[type="tel"],**  **.form-group select {**  **padding: 12px 15px;**  **font-size: 0.9em;**  **}**  **.submit-btn {**  **padding: 14px 18px;**  **font-size: 1em;**  **letter-spacing: 0.5px;**  **}**  **.error {**  **font-size: 0.8em;**  **margin-top: 6px;**  **}**  **}** |
| --- |

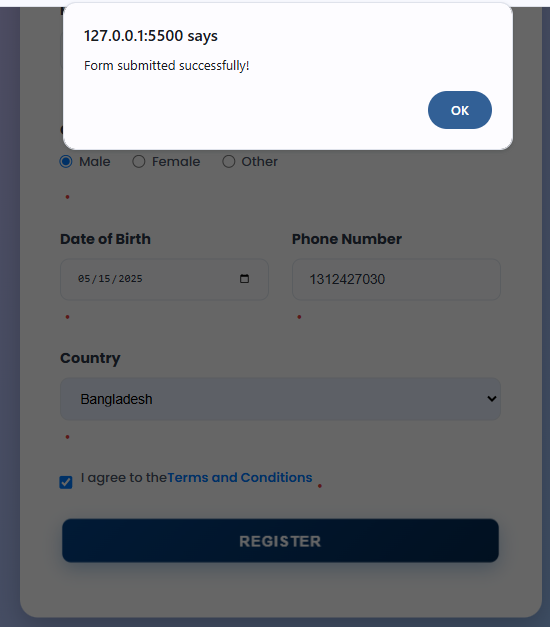
**Output:**

**Step-1:** Form With only normal text input



**Figure-01**

**Step-2 ,** Successfully Registered for Valid input of Name,Email, 10 Digits of Phone Number ,and Checkbox



**Figure-02**

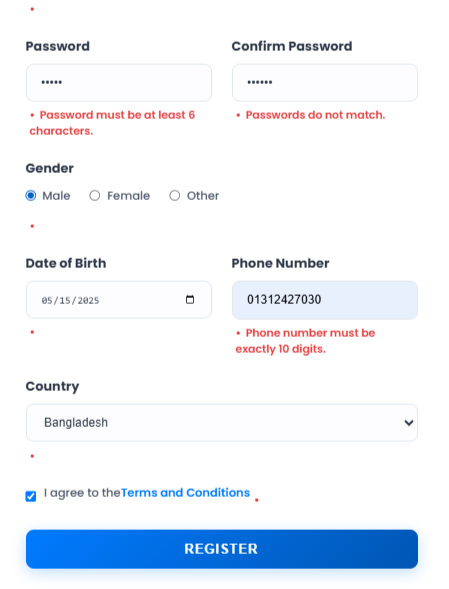
**Step3-**Showing error for mismatch of password and confirm password and others that form can not be submitted.

Figure-03

**Step4-**Showing error for unchecked gender box and terms and conditions

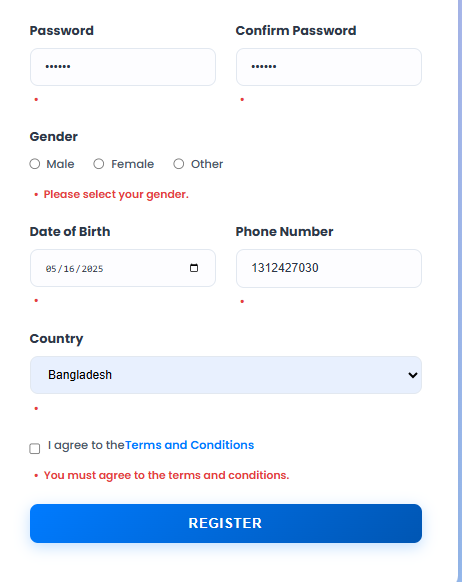
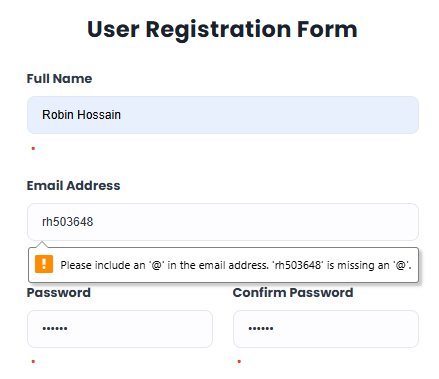


Figure-04

**Step5-**Showing error for wrong formation of Email input and empty name



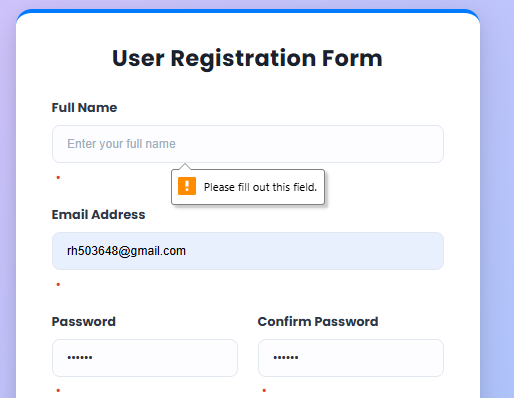


Figure-5

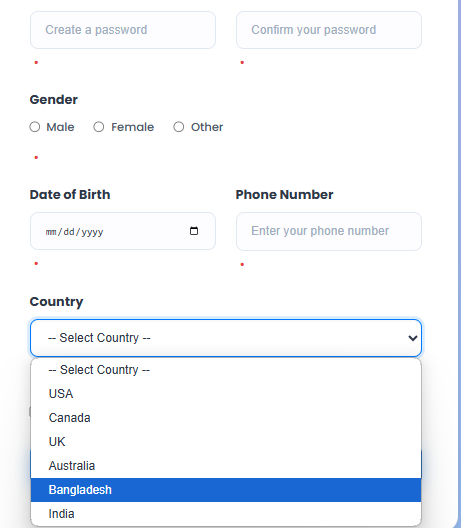
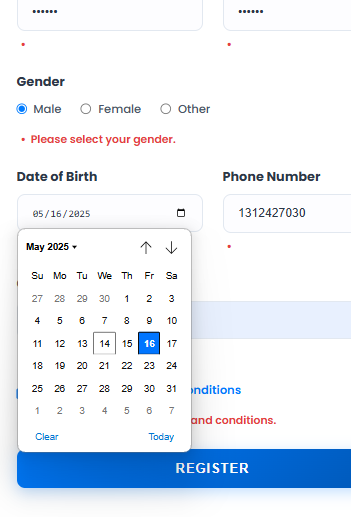
**Step6-** Datepicker and Country Dropdown List 

Figure-06