

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

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Lab Report Status	
Marks:	Signature:
Comments:	Date:

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</pre>
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</p>
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="0ther" /> 0ther
    </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</p>
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 value="Bangladesh">Bangladesh</option>
    <option value="India">India
   </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>
```

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.";
 }
  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

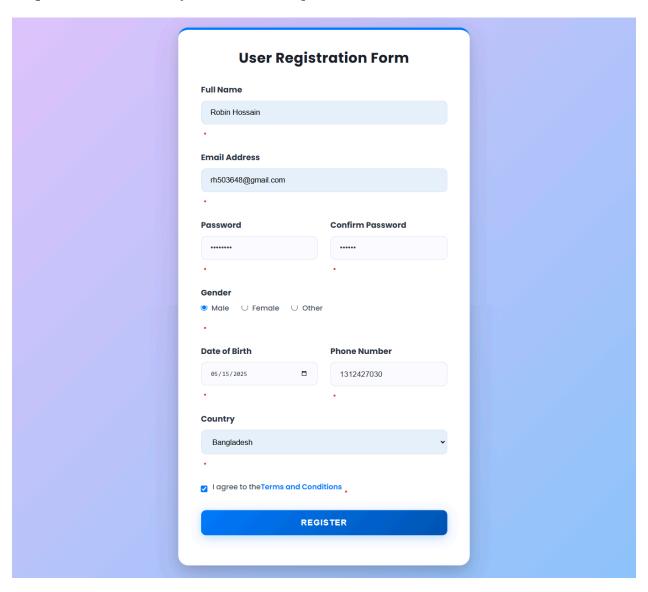


Figure-01

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

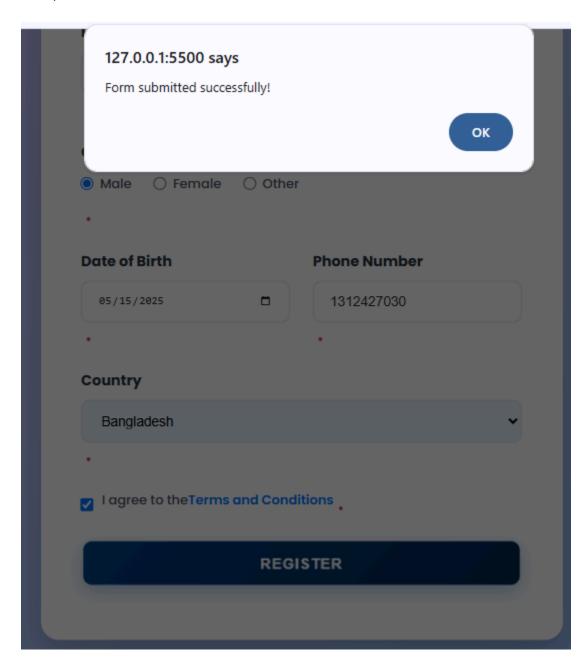


Figure-02

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

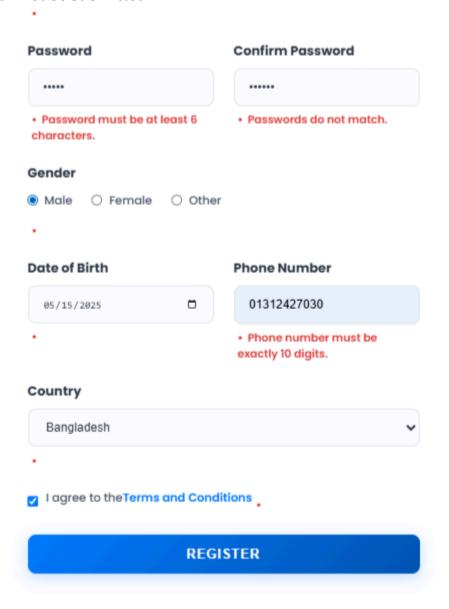


Figure-03

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

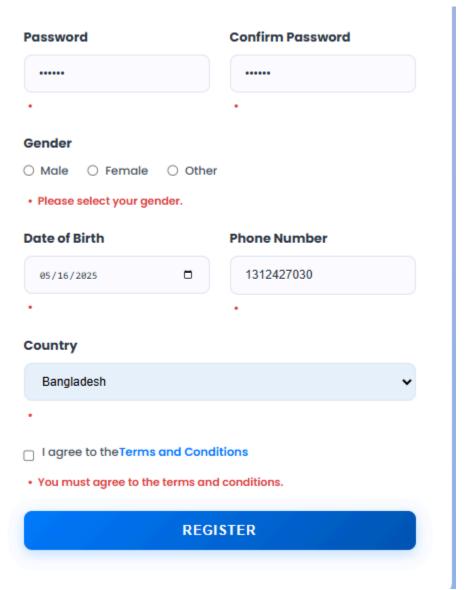


Figure-04

User Registration Form

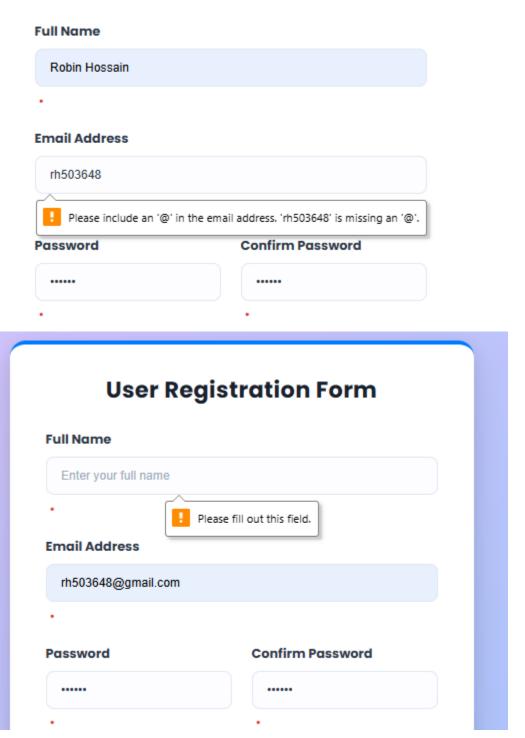


Figure-5

Step6- Datepicker and Country Dropdown List

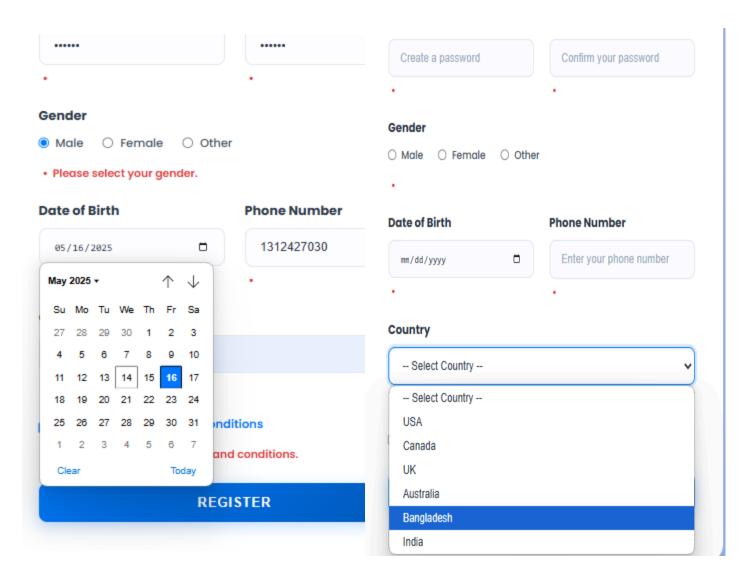


Figure-06