



Green University of Bangladesh

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

Faculty of Sciences and Engineering

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LAB REPORT NO #03

Course Title: Web Programming Lab

Course Code: CSE-302

Section: 213-D2

Lab Experiment Name:

Creating and Designing Interactive Forms using HTML and CSS.

Student Details

Name	ID
MD SHOWAIB RAHMAN TANVEER	221902084

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Submission Date : 18th March, 2024

Course Teacher's Name : MUHAIMEN KHAN

Lab Report Status

Marks:

Signature:

Comments:

Date:

1. TITLE OF THE EXPERIMENT:

Creating and Designing Interactive Forms using HTML and CSS.

2. INTRODUCTION:

Interactive forms play a crucial role in web development as they enable users to input and submit data efficiently. Understanding how to create and design interactive forms using HTML and CSS is fundamental for web developers. In this lab, we will explore various form elements such as text fields, checkboxes, radio buttons, dropdowns, and buttons, and learn how to enhance their visual appeal and functionality using CSS.

3. OBJECTIVES:

The objectives of this lab report are as follows:

- To comprehend the structure of HTML forms and their essential components.
- To gain proficiency in applying CSS styles to customize the appearance of form elements.
- To explore different form properties such as input types, labels, placeholders, and form validation techniques.

4. PROCEDURE:

1. Understanding HTML Form Structure: Review the documentation and examples illustrating the basic structure of HTML forms, including form tags, input types, labels, and submit buttons.
2. Applying CSS Styles: Learn how to use CSS to style form elements, including properties like color, font, border, and background.
3. Exploring Form Properties: Experiment with different form properties such as input types (text, checkbox, radio, etc.), labels, placeholders, and form validation techniques (using HTML attributes and JavaScript).
4. Creating Interactive Forms: Practice creating interactive forms with various input fields, dropdowns, checkboxes, radio buttons, and buttons, and implement form validation to ensure data integrity.

5. IMPLEMENTATIONS:

5.1. Implement form using HTML



```
1  <html>
2  <head>
3      <title>Registration Form</title>
4  </head>
5  <body>
6      <div style="text-align: center;">
7          <h1>Registration Form</h1>
8          <form>
9              <div style="margin-bottom: 10px;">
10                 <label>Username:</label>
11                 <input type="text" style="margin-left: 10px;">
12             </div>
13
14             <div style="margin-bottom: 10px;">
15                 <label>Birthdate:</label>
16                 <input type="date" style="margin-left: 10px;">
17             </div>
18
19             <div style="margin-bottom: 10px;">
20                 <label>Email Address:</label>
21                 <input type="email" style="margin-left: 10px;">
22             </div>
23
24             <div style="margin-bottom: 10px;">
25                 <label for="division">Division:</label>
26                 <select style="margin-left: 10px;">
27                     <option>Dhaka</option>
28                     <option>Barishal</option>
29                     <option>Chottogram</option>
30                     <option>Joshor</option>
31                 </select>
32             </div>
33
34             <div style="margin-bottom: 10px;">
35                 <label>Comments:</label>
36                 <textarea rows="4" style="margin-left: 10px;"></textarea>
37             </div>
38
39             <div style="margin-bottom: 10px;">
40                 <label>Upload File:</label>
41                 <input type="file" style="margin-left: 10px;">
42             </div>
43             <button type="submit">Submit</button>
44         </form>
45     </div>
46 </body>
47 </html>
48
```

Output of 5.1 →

Registration Form

← → ↺ http://127.0.0.1:3000/WEB PROGRAMMING/LabRe

Registration Form

Username:

Birthdate:

Email Address:

Division:

Comments:

Upload File: No file chosen

5.2. Implement form Using HTML with External CSS

HTML →

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Registration Form</title>
7     <link rel="stylesheet" href="lab3.css">
8 </head>
9 <body>
10     <div class="wrapper">
11         <h1>Registration Form</h1>
12         <form>
13             <div class="input-field">
14                 <label for="username">Username:</label>
15                 <input type="text" id="username" name="username">
16             </div>
17
18             <div class="input-field">
19                 <label for="birthdate">Birthdate:</label>
20                 <input type="date" id="birthdate" name="birthdate">
21             </div>
22
23             <div class="input-field">
24                 <label for="email">Email Address:</label>
25                 <input type="email" id="email" name="email">
26             </div>
27
28             <div class="input-field">
29                 <label for="division">Division:</label>
30                 <select id="division" name="division">
31                     <option value="Dhaka">Dhaka</option>
32                     <option value="Barishal">Barishal</option>
33                     <option value="Chottogram">Chottogram</option>
34                     <option value="Joshor">Joshor</option>
35                     <option value="Sylhet">Sylhet</option>
36                     <option value="Khulna">Khulna</option>
37                     <option value="Rongpur">Rongpur</option>
38                 </select>
39             </div>
40
41             <div class="input-field">
42                 <label for="comment">Comments:</label>
43                 <textarea id="comment" name="comment" rows="4"></textarea>
44             </div>
45
46             <div class="input-field">
47                 <label for="file">Upload File:</label>
48                 <input type="file" id="file" name="file">
49             </div>
50
51             <button type="submit">Submit</button>
52         </form>
53     </div>
54 </body>
55 </html>
56
```

CSS →

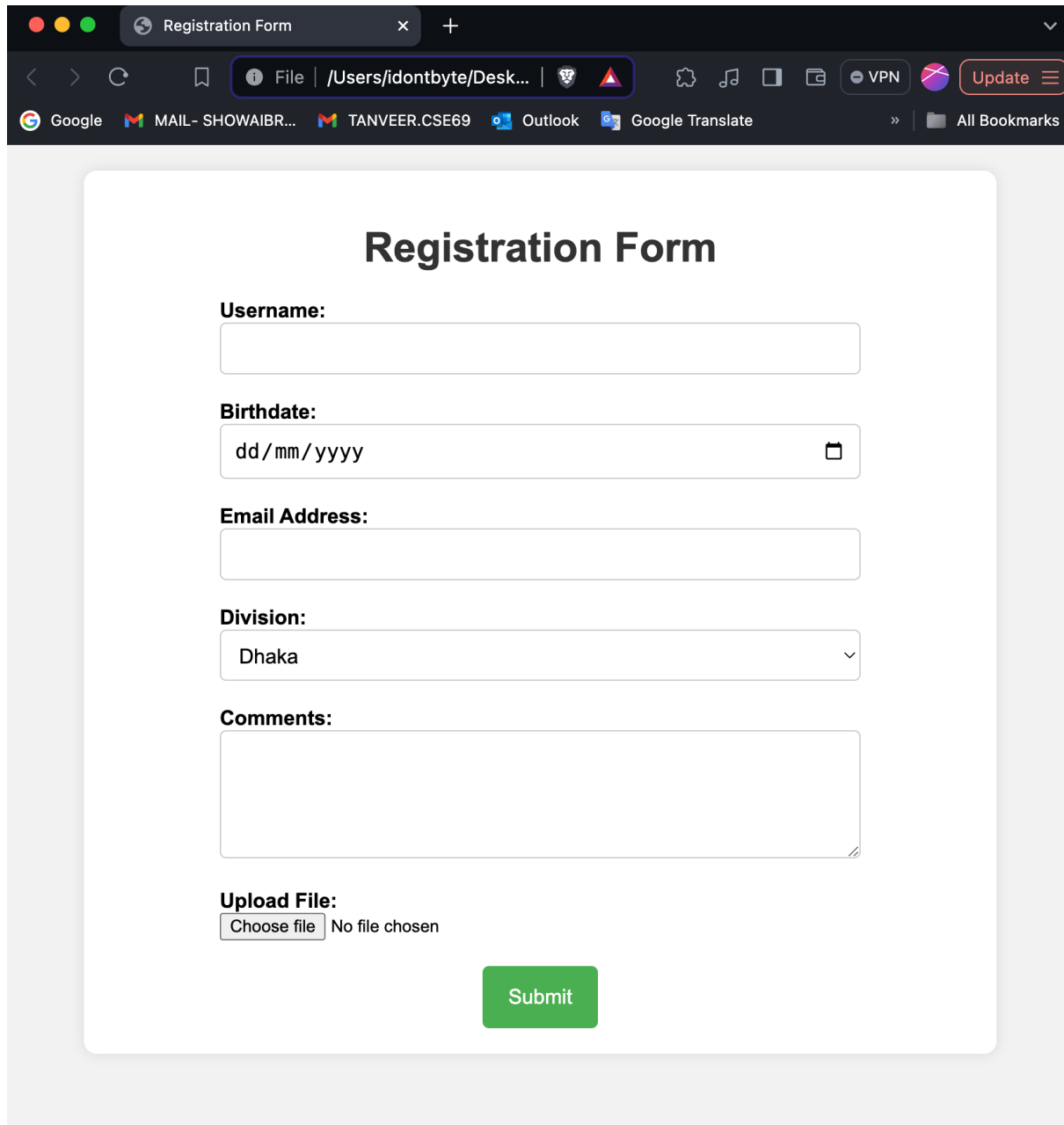


```
1 body {
2   font-family: Arial, sans-serif;
3   background-color: #f2f2f2;
4   margin: 0;
5   padding: 0;
6 }
7
8 .wrapper {
9   width: 80%;
10  margin: 20px auto;
11  background-color: #fff;
12  padding: 20px;
13  border-radius: 10px;
14  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
15 }
16
17 h1 {
18   text-align: center;
19   color: #333;
20 }
21
22 form {
23   max-width: 500px;
24   margin: 0 auto;
25 }
26
27 .input-field {
28   margin-bottom: 20px;
29 }
30
31 label {
32   display: block;
33   font-weight: bold;
34 }
```



```
1 input[type="text"],
2 input[type="date"],
3 input[type="email"],
4 select,
5 textarea {
6   width: 100%;
7   padding: 10px;
8   border: 1px solid #ccc;
9   border-radius: 5px;
10  box-sizing: border-box;
11  font-size: 16px;
12 }
13
14 select {
15   height: 40px;
16 }
17
18 textarea {
19   height: 100px;
20 }
21
22 button {
23   background-color: #4CAF50;
24   color: white;
25   padding: 15px 20px;
26   border: none;
27   border-radius: 5px;
28   cursor: pointer;
29   font-size: 16px;
30   display: block;
31   margin: 0 auto;
32 }
33
34 button:hover {
35   background-color: #45a049;
36 }
37
```

Output of 5.2 →



The screenshot shows a web browser window with the title 'Registration Form'. The address bar shows the file path '/Users/identbyte/Desktop...'. The browser's toolbar includes icons for Google, Mail, Tanveer.CSE69, Outlook, Google Translate, and a VPN button. The form itself is titled 'Registration Form' and contains the following fields:

- Username:** A text input field.
- Birthdate:** A date input field with a placeholder 'dd/mm/yyyy' and a calendar icon.
- Email Address:** A text input field.
- Division:** A dropdown menu with 'Dhaka' selected.
- Comments:** A large text area.
- Upload File:** A button labeled 'Choose file' and the text 'No file chosen'.

A green 'Submit' button is located at the bottom right of the form.

6. ANALYSIS AND DISCUSSION:

This lab provided hands-on experience in creating and designing interactive forms using HTML and CSS. By exploring different form properties and styling techniques, we enhanced the visual appeal and usability of forms. Additionally, understanding form validation techniques ensures that user input is accurate and valid. Overall, this lab equipped us with essential skills to develop functional and visually appealing web forms, thereby improving user experience on websites.

All the code can be found at this GitHub Repository:

<https://github.com/identbyte69/Web-Programming-Lab-Reports>

