Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering

Semester: (Spring, 2024), B.Sc. in CSE (Day)

LAB REPORT NO #02

Course Title: Web Programming Lab

Course Code: CSE-302   **Section: 213-D2**

Lab Experiment Name:

   Creating and Designing Tables using HTML and CSS

Student Details

Name	ID
MD SHOWAIB RAHMAN TANVEER	**221902084**

Lab Date   :   4th March, 2024

Submission Date   :   11th March, 2024

Course Teacher's Name   :   MOHAIMEN KHAN

Lab Report Status

Marks: …………………………………   **Signature:** ....

Comments: ....   **Date:** ....

1. **TITLE OF THE EXPERIMENT:**

   Creating and Designing Tables using HTML and CSS.

2. **Introduction:**

   Tables are necessary components in web development for organising and presenting data in a systematic manner. Understanding how to create and design tables using HTML and CSS is critical for web developers. In this lab, we will look at table parameters like width, height, rowspan, cellpadding, and cellspacing to design visually beautiful and useful tables.

3. **OBJECTIVES:**

   The goals of this lab report encompass the acquisition of knowledge related to the following areas:

   - To understand the structure of HTML tables and their essential elements.
   - To learn how to apply CSS styles to customize the appearance of tables.
   - To explore different table properties such as width, height, rowspan, cellpadding, and cellspacing.

4. **PROCEDURE:**

   1. **Understanding HTML Table Structure:** Study the documentation and examples illustrating the basic structure of HTML tables, including the <table>, <tr>, <th>, and <td> elements.
   2. **Applying CSS Styles:** Learn how to use CSS to style tables, including properties like border, padding, and background colors.
   3. **Exploring Table Properties:** Experiment with different table properties such as width, height, rowspan, cellpadding, and cellspacing to understand their effects on table layout and appearance.
   4. **Creating Complex Tables:** Practice creating complex tables with nested rows and columns, merging cells, and incorporating different data types.

5. IMPLEMENTATIONS:

- **The Internal Styling (CSS)**

```css
1  <style>
2      table {
3          width: 100%;
4          border-collapse: collapse;
5      }
6      th, td {
7          padding: 10px;
8          border: 2px solid #d7c3c3;
9      }
10     th {
11         background-color: #aa2f2f;
12         color: white;
13     }
14     td {
15         text-align: center;
16     }
17     .faculty {
18         background-color: #e8bebe;
19     }
20     .program {
21         background-color: #d9edf7;
22     }
23     .duration {
24         background-color: #fcf8e3;
25     }
26 </style>
```

- **Main Body (Table)**

```html
1  <table cellpadding="5" cellspacing="0">
2      <tr>
3          <th rowspan="2">Faculties</th>
4          <th colspan="2">Undergraduate Programs</th>
5          <th colspan="2">Graduate Programs</th>
6      </tr>
7      <tr>
8          <th>Programs Offered</th>
9          <th>Duration</th>
10         <th>Programs Offered</th>
11         <th>Duration</th>
12     </tr>
13     <tr>
14         <td rowspan="3" class="faculty">Faculty of Science and Engineering</td>
15         <td class="program">Computer Science & Engineering</td>
16         <td class="duration">4 Years</td>
17         <td rowspan="3" class="program">MSc in CSE</td>
18         <td rowspan="3" class="duration">2 Years</td>
19     </tr>
20     <tr>
21         <td class="program">Electrical & Electronic Engineering</td>
22         <td class="duration">4 Years</td>
23     </tr>
24     <tr>
25         <td class="program">Textile Engineering</td>
26         <td class="duration">4 Years</td>
27     </tr>
28     <tr>
29         <td class="faculty">Faculty of Business Studies</td>
30         <td class="program">BBA</td>
31         <td class="duration">4 Years</td>
32         <td class="program">MBA</td>
33         <td class="duration">1.5 Years</td>
34     </tr>
35
36     <tr>
37         <td rowspan="2" class="faculty">Faculty of Arts and Social Sciences</td>
38         <td class="program">BA (Hons) in English</td>
39         <td class="duration">4 Years</td>
40         <td class="program">MA in English</td>
41         <td class="duration">2 Years</td>
42     </tr>
43     <tr>
44         <td class="program">Bachelor of Laws (LL.B)</td>
45         <td class="duration">4 Years</td>
46         <td class="program">LLM</td>
47         <td class="duration">1.5 Years</td>
48     </tr>
49 </table>
```

6. OUTPUT: (Fully Responsive)

Faculties	Undergraduate Programs		Graduate Programs	
	Programs Offered	Duration	Programs Offered	Duration
Faculty of Science and Engineering	Computer Science & Engineering	4 Years	MSc in CSE	2 Years
	Electrical & Electronic Engineering	4 Years		
	Textile Engineering	4 Years		
Faculty of Business Studies	BBA	4 Years	MBA	1.5 Years
Faculty of Arts and Social Sciences	BA (Hons) in English	4 Years	MA in English	2 Years
	Bachelor of Laws (LL.B)	4 Years	LLM	1.5 Years

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Faculty of Science and Engineering	Computer Science & Engineering	4 Years	MSc in CSE	2 Years
	Electrical & Electronic Engineering	4 Years		
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Faculty of Business Studies	BBA	4 Years	MBA	1.5 Years
Faculty of Arts and Social Sciences	BA (Hons) in English	4 Years	MA in English	2 Years
	Bachelor of Laws (LL.B)	4 Years	LLM	1.5 Years

7. <u>ANALYSIS AND DISCUSSION:</u>

This lab taught us with hands-on experience creating and decorating tables with HTML and CSS. We've looked at several table properties, adjusting the design of tables to individual requirements. As a result, we have a better understanding of the fundamentals of HTML and CSS, which will allow us to create functional and visually appealing online interfaces..