LAB REPORT 2

(SEMESTER III SESSION 2025/2026)

BACHELOR OF SCIENCE COMPUTER (SOFTWARE ENGINEERING) WITH HONOUR

CSF3133 WEB-BASED INTERFACE DESIGN

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2.3 Working with Tables

1. Basic Table Structure: Create a table with rows and columns.

```html
<table>
    <tr>
        <th>Name</th>
        <th>Subject</th>
        <th>Grade</th>
    </tr>
    <tr>
        <td>John Doe</td>
        <td>Mathematics</td>
        <td>A</td>
    </tr>
    <tr>
        <td>Jane Smith</td>
        <td>Science</td>
        <td>B+</td>
    </tr>
</table>
```

Output :

Name	**Subject**	**Grade**
John Doe	Mathematics	A
Jane Smith	Science	B+

2. Attributes in Tables: You can add more features to your table by using attributes:

- border : Adds a border to your table.

- colspan and rowspan : Merge columns or rows.

```html
<table border="1">
    <tr>
        <th colspan="2">Student Information</th>
    </tr>
    <tr>
        <td>Name</td>
        <td>John Doe</td>
    </tr>
    <tr>
        <td colspan="2">Mathematics A+</td>
    </tr>
</table>
```

Output :

Student Information	
Name	John Doe
Mathematics A+	

2.4 Creating Forms

Forms are an essential part of any interactive webpage, allowing users to input data.

2.4.1 Basic Form Elements

1. Create a form with text fields, radio buttons, and a submit button.

```html
<h2>Registration Form</h2>
<form action="submit_form.php" method="post">
    <label for="fname">First Name:</label><br>
    <input type="text" id="fname" name="firstname"><br><br>

    <label for="lname">Last Name:</label><br>
    <input type="text" id="lname" name="lastname"><br><br>

    <label for="gender">Gender:</label><br>
    <input type="radio" id="male" name="gender" value="male">
    <label for="male">Male</label><br>
    <input type="radio" id="female" name="gender" value="female">
    <label for="female">Female</label><br><br>

    <input type="submit" value="Submit">
</form>
```

Registration Form

First Name:

Last Name:

Gender:
○ Male
Gender:
○ Female
Submit

2.4.2 Other Form Elements

1. Include other types of inputs like checkboxes and dropdowns.

```html
<form action="submit_form.php" method="post">
    <label for="hobby">Select your hobbies:</label><br>
    <input type="checkbox" id="hobby1" name="hobby1"
    value="Reading">
    <label for="hobby1"> Reading</label><br>
    <input type="checkbox" id="hobby2" name="hobby2"
    value="Gaming">
    <label for="hobby2"> Gaming</label><br><br>

    <label for="country">Choose a country:</label>
    <select id="country" name="country">
        <option value="usa">USA</option>

        <option value="canada">Canada</option>
        <option value="uk">UK</option>
    </select><br><br>

    <input type="submit" value="Submit">
</form>
```

Select Your Hobbies :
☐

Reading
☐

Gaming
Choose Your Country :
USA ▾

Submit

2.5.1 Common Semantic Tags

- `<header>` : Represents the header section of a webpage.

- `<nav>` : Contains navigation links.

- `<article>` : Denotes a self-contained piece of content.

- `<section>` : Groups content into thematic sections.

- `<footer>` : Represents the footer section of a webpage.

Example of semantic HTML.

```html
<header>
    <h1>Welcome to My Web Page</h1>
</header>

<nav>
    <a href="#home">Home</a> | <a href="#about">About</a> |
    <a href="#contact">Contact</a>
</nav>

<section>
    <article>
        <h2>Article Title</h2>
        <p>This is an article about web development.</p>
    </article>
</section>
```

```html
<footer>
    <p>Copyright © 2024 My Web Page</p>
</footer>
```

Welcome to My Web Page

Home | About | Contact

Artical Title

This is an artical about web development.

Copyright © 2024 My Web Page

2.6 Lab Exercise 2

In this exercise, you will apply your knowledge of HTML by creating a structured webpage that includes various fundamental elements of web design. The goal is to reinforce your understanding of tables, forms, and semantic HTML, which are essential building blocks for creating accessible, organized, and user-friendly webpages. You will build a personal profile page that displays information using a table, collects user input through a form, and uses semantic tags to create a meaningful structure.

2.6.1 Building a Personal Profile Page

Instruction

In this task, you need to:

1. Create a Table: Build a table with at least three rows and columns to display personal information (e.g., Name, Age, Occupation, or any other attributes of your choice).

2. Design a Simple Form: Create a form that collects basic user information, including name, email, gender, and favorite hobbies. Include text input, radio buttons, checkboxes, and a submit button.

3. Use Semantic HTML : Structure a simple webpage using semantic tags like `<header>` , `<nav>` , `<section>` , `<article>` , and `<footer>` .

My Personal Profile Page

Personal Information

Name	ieyman
Age	23
Occupation	FSKM Student

Submit Your Details

Full Name: [   ]
Email: [   ]

Gender:
○ Male ○ Female ○ Other

Favorite Hobbies:
☐ Reading
☐ Sports
☐ Music
☐ Travel

[Submit]

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