

WEB-BASED INTERFACE DESIGN (CSF3123)

Lab Report 2

Name : Siti Aisyah Rumaisha binti Malek

Matrik: S74449

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Group: K4

Programme: Computer Science (Software Engineering)

2.1 Objectives

By the end of this lab, you will have a basic understanding of:

- Creating and formatting tables in HTML.
- Building interactive forms with various input types.
- Utilizing semantic HTML tags to improve the structure of your web pages.

2.2 Pre-requisite

Completion of Lab 1 or basic knowledge of HTML structure and tags.

2.3 Working with Tables

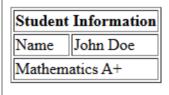
1. Basic Table Structure: Create a table with rows and columns.

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.



2.4 Creating Forms

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

2.4.1 Basic Form Elements

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

Registration Form
First Name:
Last Name:
Gender: O Male O Female
Submit

2.4.2 Other Form Elements

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

Select your hobbies: Reading Gaming	
Choose a country: USA	~
Submit	

2.5 Semantic HTML

Semantic HTML provides meaning to the content, making the structure of the webpage clearer.

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.

Welcome to My Web Page

Home | About | Contact

Article Title

This is an article 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:

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

Submission

Save your HTML file as lab2.html and submit it through the learning platform.

My Personal Profile Web Page

Home | About | Contact

Name	Matric No	Age	Occupation	Education
Aisyah Rumaisha Malek	S74449	22 years old	Student	Degree

Information Form

First Name: Siti Aisyah Rumaisha
Last Name: Malek
Email: s74449@ocean.umt.edu.my
Gender: O Male 💿 Female
Select your hobbies:
Reading
☐ Gaming
✓ Drawing
☐ Playing Sport
Choose a country: Malaysia ✔
Submit
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