



**WEB-BASED INTERFACE DESIGN
(CSF3123)**

Lab Report 2

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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:

1. Creating and formatting tables in HTML.
2. Building interactive forms with various input types.
3. 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.

| 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.

Registration Form

First Name:

Last Name:

Gender: ☐ Male ☐ 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:

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.

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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>` .

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:

Last Name:

Email:

Gender: ☐ Male ☒ Female

Select your hobbies:

☒ Reading

☐ Gaming

☒ Drawing

☐ Playing Sport

Choose a country:

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