Lab 2: Introduction to HTML Language (Part 1/2)

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1 Objectives

- Understand structural tags.
- Apply color formatting.
- Use character formatting tags.
- Implement block formatting tags.
- Format images, audio, and video.
- Create hyperlinks.

2 Setting Up the Code Editing Environment

2.1 Specifying Language

Add the appropriate attribute to the <html> tag to specify that the websites language is English.

2.2 Declaring the Web Page Title

To complete this challenge, fulfill the following requirements:

- 1. Specify that the web page uses the UTF-8 character encoding.
- 2. Add a title to the web page with the content: My Website.

Hint:

- Create a standard HTML structure as learned.
- Specify UTF-8 character encoding.
- The <meta charset> tag should be declared first within the <head> tag.
- The <title> tag should contain the required content.

2.3 Heading Tags

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Below is the outline for a guide on installing Laravel (ignore the name; its just an example).

Outline:

- Installation
 - Meet Laravel
 - * Why Laravel?
 - · A Progressive Framework
 - · A Scalable Framework
 - Your First Laravel Project
 - Laravel & Docker
 - * Getting Started On macOS
 - * Getting Started On Windows
 - * Getting Started On Linux
 - * Choosing Your Sail Services

When implemented, the article includes additional text as shown below. Observe and recreate the entire article in HTML.

Content:

Installation

• Meet Laravel

Laravel is a web application framework with expressive, elegant syntax.

• Why Laravel?

There are a variety of tools and frameworks available to you when building a web application.

• A Progressive Framework

We like to call Laravel a progressive framework. By that, we mean that Laravel grows with you.

• A Scalable Framework

Laravel is incredibly scalable. Thanks to the scaling-friendly nature of PHP and Laravels built-in support for fast, distributed cache systems like Redis, horizontal scaling with Laravel is a breeze.

• Your First Laravel Project

Before creating your first Laravel project, you should ensure that your local machine has PHP and Composer installed.

• Laravel & Docker

Getting Started On macOS

If your developing on a Mac and Docker Desktop is already installed, you can use a simple terminal command to create a new Laravel project.

• Getting Started On Windows

Before we create a new Laravel application on your Windows machine, make sure to install Docker Desktop.

• Getting Started On Linux

If your developing on Linux and Docker Compose is already installed, you can use a simple terminal command to create a new Laravel project.

• Choosing Your Sail Services

When creating a new Laravel application via Sail, you may use the with query string variable to choose which services should be configured in your new applications docker-compose.yml file.

```
1 <!DOCTYPE html>
```

^{2 &}lt;html lang="en">

Hint:

- Use <h1> for the main title.
- Use <h2> for secondary headings.
- Use <h3> for tertiary headings.
- Use <h4> for quaternary headings.
- Use for paragraph text.

3 Practical Exercises

3.1 Exercise 1: Create MyFirstWeb.html

Write a web page named MyFirstWeb.html.

Title: My first web

Content:

Hello world

Instructions:

- Save the file as MyFirstWeb.html.
- Open MyFirstWeb.html in a browser using Live Server mode.

3.2 Exercise 2: Create ThongTin.html

Create a web page named ThongTin.html with:

Title: Personal Information

Content:

Full Name: Nguyen Van An

Year of Birth: 1990 Student ID: 123456789

Instructions:

• Save the file.

• Open ThongTin.html in a browser using Live Server mode.

Hint: Use the tag to preserve the formatting of the content as it appears during editing.

3.3 Exercise 3: Modify to ThongTin1.html

Modify ThongTin.html to create ThongTin1.html with:

Title: Personal Information

Content:

Full Name: Nguyen Van An

Year of Birth: 1990 Student ID: 123456789

Hobbies: traveling, singing, and liking all sorts of things...

Instructions:

• Save the file.

• Open ThongTin1.html in Internet Explorer using Live Server mode.

Hint: Explore the following tags:

• <u>: Underlines text.

• <s>: Strikes through text.

• **:** Bolds text.

3.4 Exercise 4: Modify to ThongTin2.html

Modify ThongTin1.html to create ThongTin2.html with:

Title: Personal Information

Content:

Full Name: Nguyen Van An

Year of Birth: 1990 Student ID: 123456789

Hobbies: traveling, singing, and liking all sorts of things...

Really hate cold people like icy glaciers below OrC.

Love drinking lots of water (H2O)

Instructions:

• Save the file.

• Open ThongTin2.html in a browser.

Hint: Explore the following tags:

• <sub>: Creates small text positioned below the baseline.

• <sup>: Creates small text positioned above the baseline.

Note: Color Formatting in HTML Before proceeding to Exercise 5, understand the methods to change text color in HTML:

• Inline: CSS is written in the style attribute of an HTML element.

• Internal: CSS is included within the HTML document, inside a <style> block.

• External: CSS is in a separate file (usually with a .css extension), linked to the HTML using the tag.

Reference: https://xuanthulab.net/css-la-gi-cach-nhung-ma-css-vao-html.html

3.5 Exercise 5: Create NguoiBan.html

Create a web page named NguoiBan.html with:

Background Color: Blue

Text Color: Yellow

Title: Friend Information

Content:

Full Name: Ly Thi Bong Hoa

Year of Birth: 1990

Likes people who are kind, honest, and courageous.

Really hates deceitful, weak people.

Hint:

- Background color: background-color: "blue"
- Text color: color: "yellow"

3.6 Exercise 6: Modify to NguoiBan1.html

- Find a *.jpg image file on your computer.
- Copy the image to the folder containing your web pages.
- Rename the image to AnhNen.jpg.
- Modify NguoiBan.html to create NguoiBan1.html:
 - Keep the content and title unchanged.
 - Remove the background color.
 - Set AnhNen.jpg as the background image.

Hint:

- Create a dedicated folder for images to manage them better.
- Use background-image: url("path/to/folder/AnhNen.jpg") within the body tag.

3.7 Exercise 7: Create ThongTin3.html and NguoiBan2.html

- Modify ThongTin2.html to create ThongTin3.html:
 - Add a link to NguoiBan2.html at the end of the page with the hypertext Friends Page.
- Modify NguoiBan1.html to create NguoiBan2.html:
 - Add a link to ThongTin3.html at the end of the page with the hypertext Information Page.
- Open ThongTin3.html in a browser and test navigation between the pages.

Hint:

- The <a> tag creates hyperlinks to web pages, files, emails, etc. a stands for anchor.
- Usage: Clickable text
- Example:

```
You can <a href="https://it-global.net/">click here</a>
to visit Tancools website.
```

3.8 Exercise 8: Using the Tag

The tag displays images on a web page. img stands for image. Images are widely used for logos, avatars, banners, and product images on e-commerce sites.

Usage:

```
1 <img src="image_link" />
```

Example:

```
1 <img src="https://public-images/62cfddba4e934.png" />
```

3.8.1 Task 1: Display an Image

Display the following image in a browser:

https://online.vlu.edu.vn/Content/logo/banner-yersin.jpg

3.8.2 Task 2: Display an Image with Specific Size

Choose an image URL and display it at a size of 100x100 pixels.

Requirements:

• Use the provided image URL.

• Set the image size to 100x100 pixels.

3.8.3 Task 3: Display an Image with Alternate Text

Given an image URL, display it in a browser with alternate text: itvlu.

3.9 Exercise 9: Using and Tags

The and tags create unordered lists, commonly used in article content. ul stands for unordered list, and li stands for list item.

Usage:

Complete the code to create a list as follows:

Three languages that web browsers understand:

- HTML
- CSS
- Javascript

3.10 Exercise 10: Using and Tags

Similar to and , the and tags create ordered lists with numbered items, ol stands for ordered list.

Usage:

Create an tag containing 10 tags, each with the content Item.

3.11 Exercise 11: Modify to ThongTin4.html

Modify ThongTin3.html to create ThongTin4.html:

- Add a link to http://tuoitre.vn at the end of the page with the hypertext Tuoi Tre Newspaper.
- Add a link to send an email to abc@domain.com with the hypertext Send Email.

Hint:

- Use the <a> tag with href to link to the two addresses.
- Explore the target attribute: blank, parent.

3.12 Exercise 12: Create BangBieu.html

Write a web page named BangBieu.html to create a table with 2 rows and 3 columns:

A	В	С
D	E	F

Note:

- : Defines a cell in a table row.
- : Defines a table row.
- align: Aligns text in with values left, right, center.
- cellspacing: Sets the space between columns.
- cellpadding: Sets the space between cell borders and content.
- These tags are nested within tags.

3.13 Exercise 13: Create BangBieu1.html

Copy BangBieu.html to create BangBieu1.html with the same table but with a border thickness of 1 pixel.

Hint:

• Use border="1px".

References:

• https://quantrimang.com/hoc/bang-bieu-trong-html-151504

• https://webcoban.vn/html/danh-sach-tat-ca-cac-the-trong-html-theo-the-loai. html

4 General Requirements

- Use a text editor (e.g., VS Code) to create and edit HTML files.
- Follow the folder structure:

```
Lab2/
MyFirstWeb.html
ThongTin.html
ThongTin1.html
ThongTin2.html
ThongTin3.html
ThongTin4.html
NguoiBan.html
NguoiBan1.html
NguoiBan2.html
BangBieu.html
BangBieu.html
images/
AnhNen.jpg
```

5 Submission

- Combine all files into a folder named: LAB2_StudentID_FullName.
- Create a .docx file, paste screenshots of your exercise results, and include it in the folder.
- Upload the folder to GitHub following the instructions from Lab 1.