WEB SYSTEM NOTES PRELIM

WHAT IS VS CODE – IDE (Integrated Development Environment) developed by Microsoft

VS CODE began in 2011 led by Eric Gamma

* Goals – Create world class code editor for web development runs in the browser.
* Goal was ahieved with browser(vscode.dev) – minor code edits

FEATURES:

* You can integrate microsoft co pilot
* Extensions- lets you customize vs code
* Codes in any language

**Implementing version control and enabling developer collaboration (chapter 2)**

What is version Control?

* In software developmemnt version control is practice of managing the chnages in given code base.
* To manage, use version control system(vcs)
* Ex: Git- distrubted vcs

What is git?

* Free and popular version control system used by a lot of developers especially in enterprise level software development

**4 AREAS**

-workspace- nakalagay sa computer (set of folder)

- stage- execute git (ready to put at local repository)

- local repository- chnages sa code, locally sa computer

-remote repository- server

**Commands**

Git fetch- telling repository to have copy of changes

Git push

Git commit

Git reset- for empty stage comma

Git pull

**Repository-** contains project in Git

**Feature branching-** allows us to work on feature independently.

**Github-** real time collaboration between developers by providing central location for repositories.

* Acquired by Microsoft in 2018- resulted in a closer integration with vs code to github called codespace t

**CI-** Continous Impementation

**CD-** Continous Development

**HTML BASICS**

**HTML define** the content of every web pages

**-control+u**

**-marking up** your raw content with HTML tags, you can tell web browsers how you want different parts of your content will be displayed

**-**defines what content goes in a web page

**-**what content is there

**Ccs-** how is it presented

**HTML SYNTAX-** Written using tags (<>)

**An element** in paragraph form can be declared using <p> or p> tags.

**<html> - opening tab**

**</html> - closing tab**

<body>- puts visual content like headings, ordered lists etc.

</head>- puts icon for your web

Most tags have opening and closing tags, but some tags have self closing tags

Ex: images (<img/>)

Horizontal rule (<hr/>)

**HTML ELEMENTS**

Common elements

-headings – (h1,h2,h3,..)

-paragraphs(p)

- unordered list (ul) and ordered list (ol)

- divider(div)

-images (img)

Input fields (input, select) –

* Hyperlinks (a- stand for add core )
* Multimedia (audio, video)
* Content layout groups (nav,main, section, footer and etc)

**HTML ATTRIBUTES**

Attributes modifies how a given tag create

A screenshot of a web page

Description automatically generated

**CSS Basics (appliying designs to out web page)**

What is css- cascading style sheets

Lets you design and layout your web pages

-allows you alter font color, adjust content spacing, add layout grid, or applying animations

**CSS Synatx**

A screenshot of a computer program

AI-generated content may be incorrect.

**Selector-** target a specific element \

**Property –** ano yung gusto mong iset na design based on the element that you are targeting (setting how large the font is)

**Value-** setting values(30px)

**Declaration**- style whole

<https://cssreference.io/>

**basic values and units**

you can apply black color by using hex code(#000000) or decimal code( “rgb” (0,0,0)

for spacing – using absolute unit (cm or px) or relative unit(rem,vh, vw)

rem- resizing an element according to the declared root

vh/vw- resize an element based on your screen.

Relative sizing units are generally used more since they allow auto- adjustments depending on the user’s screen size.

**CSS SPECIFICITY**

Determining which styles apply when different styling rules on web pages

**3 common ways to target an element**

1. **Type selector-** target an element using tag (h1/h2)
2. **Class selector-** targets an element using its class attribute. **Denoted by a dot sa unahan**
3. **ID Selector-** **denoted by a hash,** target an elements using its id attribute.

**SPECIFICITY-**

A screen shot of a computer code

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A screenshot of a computer

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HOVER- NAG IIBA ANG KULAY PAG GINAGALAW NG MOUSE

**A screenshot of a computer

AI-generated content may be incorrect.**

**DECORATION- UNDELINED**

A screenshot of a computer

AI-generated content may be incorrect.

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