HTML (Structure of webpage)

<head> not show in page. Such as the <title>

<body> visible of the page which the user can see

DOM (document object model): tree structure

<h1> the largest heading. (h1…h6)

Two kinds of list:

Ordered list<ol> <li>list item

Unordered list <ul>

<img src = “name” alt = “…” width = “number”>

alt: in case the image can’t be loaded, use text to instead it

width: control the size of image.

<a href = “link address”>info</a>

<table>: <thead> table head <tbody> table body <tr>table row

<th>table heading <td>table data

<form>:

<div> different section

<input type="text" placeholder="Full Name" name="varable\_name">

<input type="submit">

type = “password” -> not showing the input

type = “radio” -> value = “relate\_info”

list = “list\_name”

<datalist id = “list\_name”> , <option value=”option”>

Id is for the unique object, class is for the not unique object

Call class in style section: .class\_name

Call Id in style section: #Id\_name

<meta name="viewport" content="width=device-width, initial-scale=1.0"> suit screen, head section

Change the object based on the size of screed:

@media(min-width: 600px){

Xxxxx;

}

@media(max-width: 400px){

Xxxxx;

}

Flexbox (div)

#id name{

display: flex;

flex-wrap: wrap;

}

Grid (div)

#id name{

display: grid;

padding: 20px;

grid-column-gap: 20px;

grid-row-gap: 10px;

grid-template-columns: 200px 200px auto;

}

CSS

color: color\_name; property2:xxxx; property3:xxxx;

<style> object {color: … ; property2:xxx;} Better put in head section.

<link rel="stylesheet" href="style.css"> Better put in head section.

div{

background: orange;

width: 400px;

height: 50px;

padding: 20px;

margin: 20px;

font-family: fantasy;

font-size: 15px;

font-weight: bold;

border: 3px solid black;

}

Specificity:

1. inline
2. id
3. class
4. type

button/ button:hover : before/after click

Bootstrap

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css" integrity="sha384-9aIt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk" crossorigin="anonymous">

SCSS

Var. $color: red;

Xx{

color: $color;

}

Link back to html:

Compile: sass file\_name.scss:file\_name.css

Link css to html

Auto compile: sass --watch file\_name.scss:file\_name.css

Inheritance:

%message{

… …

}

.class\_name{

@extend %message;

}

Git

Keep track of changes to code

Synchronizes code between different people

git clone / git add / git commit -m “..” / git push / git status / git commit -am “this command commit all files”

git pull / git log (check all commit messages) / git reset – hard <commit> / git reset – hard origin/master

git branch / git checkout -b new\_branch (create new branch) / git checkout exsit\_branch (switch branch)

git merge branch (merge branch with current branch)

touch file. : create new file

create Username.github,io go to settings can check the website

python:

input()

Print(f “anything {var\_name}”)

list.append()

If condition:

elif:

else:

end

int(“String”) convert string to int

list dict tuple set …

set: .add() .remove() len(set)

for I in range():

for character in array:

dict:

dict = {key:value, key1:value1}

dict[key] = value

def function\_name():

return

Import:

From file import function\_name of import file -> file.function()

Class name():

def\_\_init\_\_(self, x,y):

self.x = x

self.y = y

def other\_function(self):

decorator:

def announce(f):

def wrapper():

// do sth here

f()

// do sth here

return wrapper

@announce

def function():

lambda:

assume list contains lists of dict

list.sort(key = lambda list\_key\_input : list\_key[ ‘output’ ])

try:

except XXXXXX:

//do sth

sys.exit(1)

Web status code

200 Ok

301 moved permanently

403 forbidden

404 not found

500 internet server error

Django: (python3)

Start command: django-admin startproject PROJECT\_NAME

In terminal: python3 manage.py runserver

Start app: python3 manage.py startapp app\_name

python3 manage.py migrate init database