Bootstrap:

Its a front end library/framework

Its a bunch of code already written which I can use in my website.

It was designed by twitter but after that they made it free for open source

Responsive website means adaptable layout. (Layout should be proper in mobile,pc,ipad, etc)

There are classes that are predefined on bootstrap which we can use. So we wont have to write more code.

Install bootsrap on your website:

paste the link of cdn bootsrap in head element of your html file with all the other links.

nav is an html element just like div but it is the right place to create navbar

Some Bootstrap classes:

btn-primary :- blue button

btn-dark :- dark button

Navbar Classes

navbar :- does nothing alone(apply basic css) - applied to nav element

navbar-nav :- will remove bullet point from ul - applied to ul element

nav-item :- does nothing alone(apply basic css) - applied to li element

nav-link :- beautify the <a> element - applied to a element

navbar-expand-lg :- will lay the navbar content horizontly - applied to nav element - on larger screens it will be laid horizontly but if the screen size is of phone or tablets, it will automatically laid vertically

bg-light :- will add light background color - applied to nav

bg-dark :- will add dark background color - applied to nav

navbar-light :- will turn navigation style to light(mostly the word's color) - applied to nav

navbar-dark :- will turn navigation style to dark(mostly the word's color) - applied to nav

navbar-brand :- For the logo or brand name in navigation - applied to a

ms-auto :- will align navbar elements to right

// To   collapse navbar add a button from bootstram documentation, after that put the ul in seperate div //

collapse /and/ navbar-collapse :- will turn nav items into dropdown menu when the screen size become smaller - applied to div - also have to give id which we used in button

dropdown :- will turn li into dropdown - applied to li

fixed-top :- when user scroll, navigation bar will stay on top of screen -applied to nav

Grid Classes

row: - applied to div

col: applied to div (will take equal amount of space)

col-1 to col-12: applied to div(will take specific amount of space)   But it will still   take specific space even if the screen gets smaller

col-md-6 : applied to div(will take 6 units out of 12 on midium and large device but on smaller devices will take full width) Thus making it responsive

container: applied to div, it is used to horizontally center and pad out your content and it is responsive but it will not look good in animation since it will change the width at run time

container-fluid: Same as container but will take the full width of screen so animation will not break if screen size changes

Carousel

Carousel-item: - Put your content in this class

Card

Card, card-header, card-body, card-footer, We should put these all in **row** class as a column as we saw in grid classes
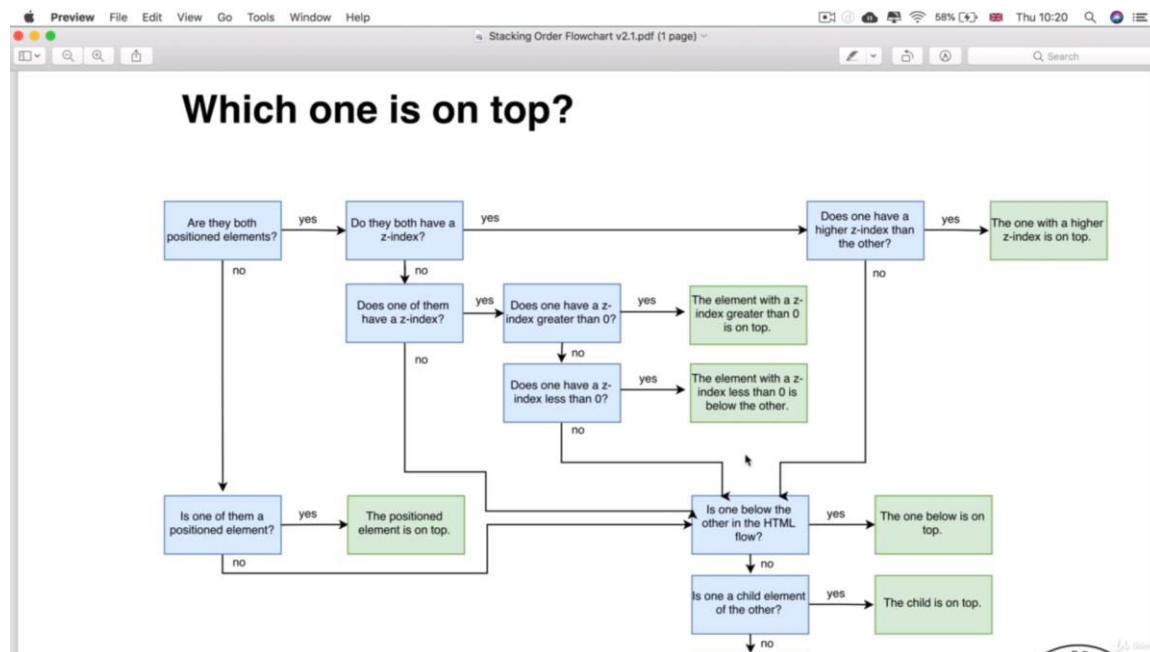
Z-index

It is an advanced css concept.

z-index is a css property that only works if the element is positioned. (its position property is set)

z-index : 1 means it would be more closer to our eyes

z-index : -1 means it would be further away from our eyes

By default every element's z-index is 0.

CSS Media queries breakpoints

it is used for responsiveness of a website means the website would look good on all mobile,tablet, laptop,desktop,iPad, etc.

@media print - code inside this block will execute only when website is about to be printed.

@media speech : - ex, when website is being spoken to visualy impair person

@media (max-width: 900px) : - if width is smaller than 900px on any device, the code in this block will trigger

Combining CSS selectors

ex:

h1,h2,h3,h4,h5,h6 {}

#id_name class_name : applied to class which is in this particular id, must applied to parent-child elements

h1#title , h1.container-fluid :- mostly applied to same level selectors