**Bootstrap:**

**Introduction:**

* One type of CSS framework.
* It requires the use of the HTML5 doctype.
* Newest version: **Bootstrap5**

**Navbar:**

* **navbar** class: use to create responsive navigation bar. It provides style into navbar like padding, color and layout etc.
  + for dark theme: **navbar-dark**
  + for light theme: **navbar-light**
  + for background color: **bg-\***
  + for branding: **navbar-brand**
  + for toggle: **navbar-toggle** & **collapse**
* **navbar-expand-lg** class: tells the navbar to remain **collapsed on smaller screens** (like mobile phones or tablets) and expand when the screen size reaches the "large" breakpoint (which is 992 pixels wide or larger).
  + **For different screen size there is different class for expands navbar**
    - navbar-expand-sm
    - navbar-expand-xl
    - navbar-expand-md
    - navbar-expand-lg
* **container** class**:** It provides responsive fixed-width container, padding, margin etc.
  + **Types of containers in Bootstrap:**
    - **container:** Fixed width.
    - **container-fluid:** Full-width (100%).
    - **container-{breakpoint}:** Fixed width starting from a specific breakpoint.
      * container-lg
      * container-md
      * container-sm etc.
* **navbar-toggle** class:
* **<span>**
* **Use of Bootstrap:**
  + use for developing responsive and mobile-first website.
* **Structure of Bootstrap:**
* See the bootstrap code again in detail

**Container:** create fixed width container that is responsive to screen size. This width of container change with different breakpoint according to screen size.

**bg:** for background colour.

**m:** all side margin.

**mt:** margin-top

**mb:** margin-bottom

**ml:** margin-left

**mr:** margin-right

**mx:** margin-horizontal (combine ml, mr)

**my:** margin-vertical (combine mt, mb)

**for grid view:**

**row**

**col**

**Bootstrap grid is based on a 12-column system**

* col-md-3:
  + col: column
  + md: medium
  + 3: specifies that column should take 3 out of 12 columns of available horizontally.

**Flex:**

* d-flex: display:flex
* flex-column: flex-direction: column;
  + Using both d-flex and flex-column together allows you to create flexible column layouts.

**Padding:**

* **p**
* **pt**
* **pb**
* **pl**
* **pr**
* **px**
* **py**
* The outline button classes in Bootstrap 5 typically follow the format btn-outline-{color}, where {color} can be one of the standard colors provided by Bootstrap, like primary, secondary, success, danger, warning, info, light, dark, or white.