Bootstrap

- Bootstrap is an open source toolkit for developing Mobile and Web Applications with HTML, CSS and JavaScript.
- It provides a repository [library] that helps developers to build complex HTML, CSS and JavaScript page with less logic and markup.
- It provides pre-defined CSS classes and stylesheets, which you can use for any HTML page.
- Bootstrap even provides templates for web and mobile application.
- Bootstrap also provide premium features.

www.getbootstrap.com

- Latest version 4.5
- Bootstrap 5 is coming [not stable yet]

Setup Environment for Bootstrap

- Download "Node.js" on your computer.
- Node.js is required for Package Manager.
- Package Manager is a tool used to install and maintain packages [library] for project.
- There are several package managers
 - \circ NPM
 - O Yarn
 - Bower
 - RubyGems
 - NuGet
- Download Node.js for NPM
 https://nodejs.org/en/download/
- Test Node.js version from command prompt

- > node -v
- > npm -v

Install Bootstrap for your project with NPM:

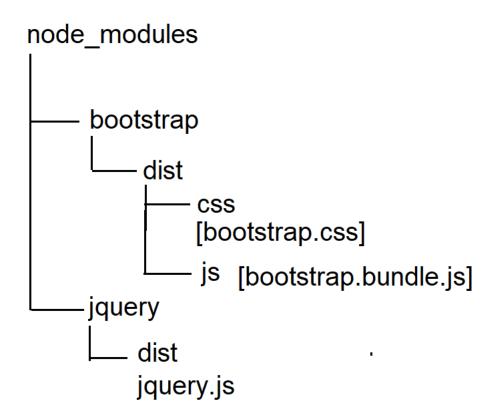
- Open your project in VS code
- Open Terminal [Ctrl + `]
- Type the following command
 - > npm install bootstrap
- Bootstrap library is added into a folder "node_modules"

Install jQuery for your project with NPM:

- jQuery is a library used by bootstrap for creating complex interactions.
- To install jQuery type the following command
 - > npm install jquery

jQuery library is added into "node_modules"

The basic files required for bootstrap templates from "bootstrap and jQuery" are:



- bootstrap.css
- jquery.js
- bootstrap.bundle.js

Note: Any jQuery file of bootstrap must be defined only after "jquery.js"

- A developer has to know about different types of CSS classes provided by bootstrap.css and different types of attributes provided by bootstrap.bundle.js
- A developer can extend existing bootstrap classes and customize according to his requirements.

Bootstrap Containers

- Containers are used for basic layout design.
- Containers are defined with margin and padding.

- Containers are controller with "@media()" feature, which can make your content responsive.
- Bootstrap provides 3 different container classes
 - o.container
 - o.container-fluid
 - container-sizes[sm, md, lg, xl]

Container Class	Resolution
.container	Min 540px – Max 1200px - width
.container-sm	Min 540px – max 1140px [mobile]
.container- md	Min 100% - max 1140px [tab]

.container-lg	Min 100% - max
	1140px [laptop]
.container-xl	Min 100% - max
	1140px [desktop]
.container-	Min 100% - max 100%
fluid	[responsive]

```
border:2px solid darkcyan;
      margin-top: 10px;
    }
  </style>
</head>
<body>
 <div class="container">
   Container
 </div>
 <div class="container-sm">
   Container-sm
 </div>
 <div class="container-fluid">
   Container Fluid
 </div>
</body></html>
```