#### **Bootstrap**

### 3.1 Basics of Bootstrap

#### 3.1.1 Introduction of Bootstrap

- Bootstrap is a popular easy-to-learn powerful frontend framework that makes a developer's life easy in developing responsive and mobile-friendly websites.
- Bootstrap was developed by Twitter (X).
- It is widely known for its pre-designed CSS and JavaScript components which a developer can easily use in their web apps.
- The current stable version of Bootstrap is v5.3

## 3.1.2 Use of Bootstrap

- Bootstrap simplifies the development process by providing ready-to-use UI components.
- It provides components like forms, carousels, navbars, buttons, etc.
- It is used to make a website responsive as all of the bootstrap components are responsive out of the box.
- While Bootstrap styles may look old and generic but the customization potential in these components is huge enough to overshadow it.

## 3.1.3 Structure of Bootstrap

Bootstrap offers a set of tools, components, and styling to streamline the development process and create visually appealing and user-friendly websites.

Here's an overview of the typical structure when using Bootstrap:

#### 1. HTML template:

- Begin by setting up the basic HTML structure. Add the <a href="html">html</a>, <a href="head">head</a>, and <b dots</a> elements.
- Eg:

- 2. Bootstrap CSS and JavaScript CDN
- Link these URLs to link> and <script> tags respectively

```
JS -
https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle
.min.js
```

```
CSS - https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css
```

## 3. Adding a Navbar

- Eg:

#### 4. Container

- Wrapping content within a Bootstrap container provides a responsive layout and ensures proper alignment.
- Eg:

```
<div class="container">
    <!-- Content -->
    </div>
```

# 5. Grid System

- Using the Bootstrap grid system we can create responsive layouts. The grid consists of rows and columns that help structure the content.
- Eg:

# 6. Components

- Bootstrap provides 100s of prebuilt components which are ready to use and modify.
- Eg:

# Bootstrap Reference:

https://getbootstrap.com/docs/5.3/getting-started/introduction/