bg-primary:

This class applies a background color from Bootstrap's predefined color palette. In this case, bg-primary applies a primary color background, which is usually a shade of blue.

text-white:

This class sets the text color to white. It's used to ensure that the text is readable against the bg-primary background.

py-3:

This class applies padding on the top and bottom (py stands for "padding y-axis"). The number 3 is a part of Bootstrap's spacing scale, which means a moderate amount of padding.

navbar:

This class is used to create a responsive navigation bar.

navbar-expand-lg:

This class makes the navbar expandable (collapsible) on large screens (lg stands for "large"). On smaller screens, the navbar will collapse into a hamburger menu.

navbar-light:

This class applies a light color scheme to the navbar. It ensures that the text color contrasts well with light backgrounds.

container-fluid:

This class applies a full-width container that spans the entire width of the viewport. It's useful for creating a fluid layout.

navbar-brand:

This class is used for the branding part of the navbar. It typically contains the website's logo or name.

navbar-toggler:

This class styles the button that toggles the collapse of the navbar on smaller screens.

data-bs-toggle="collapse":

This attribute is used with navbar-toggler to control the collapsing behavior of the navbar.

data-bs-target="#navbarNav":

This attribute specifies the ID of the collapsible content to be toggled. In this case, it targets the element with the ID navbarNav.

navbar-toggler-icon:

This class styles the icon inside the toggle button.

collapse:

This class applies collapse functionality to the navbar content, making it collapsible on smaller screens.

navbar-collapse:

This class is used together with collapse to ensure that the navbar content collapses correctly.

navbar-nav:

This class styles the unordered list (ul) inside the navbar, turning it into a flex container with proper spacing.

nav-item:

This class is used for each list item (li) inside the navbar-nav list, ensuring proper spacing and alignment.

nav-link:

This class styles the links inside the navbar. It ensures proper padding, color, and hover effects.

routerLink:

This Angular directive is used to navigate to different routes within the Angular application. It's similar to the href attribute in HTML but is specifically for Angular's routing.