NAVBAR IN BOOTSTRAP

1. Nav-bar Class :

1. `<nav class="navbar navbar-expand-sm navbar-light bg-light">`

- `<nav>`: This is an HTML5 semantic element used to define a block of navigation links.

- `class="navbar navbar-expand-sm navbar-light bg-light"`: These classes are provided by Bootstrap:

    - `navbar`: Applies basic styling to the navigation bar.

    - `navbar-expand-sm`: Makes the navbar responsive, collapsing the menu into a hamburger icon on small screens (i.e., devices smaller than 576px).

    - `navbar-light`: Uses light colors for the text (dark text on a light background).

    - `bg-light`: Applies a light background color to the navbar.

2. NAV-BAR CONTAINER (EXPLANATION)

2. `<div class="container-fluid">`

- `<div>`: A generic container element.

- `class="container-fluid"`: This class makes the container span the full width of the viewport, adjusting to the screen size. It ensures that the content inside it is responsive.

3. `<a class="navbar-brand" href="#">Navbar</a>`

- `<a>`: An anchor tag used to create a hyperlink.

- `class="navbar-brand"`: Marks this link as the brand or logo of the website, giving it a distinct style within the navbar.

- `href="#"`: The `href` attribute defines the link destination. Here, `#` is a placeholder that links to the top of the page.

3. BUTTON TAGS (EXPLANATION)

4. `<button class="navbar-toggler" type="button" ...>`

- `<button>`: A button element used to trigger the collapse of the navbar on small screens.
- `class="navbar-toggler"`: Applies Bootstrap styling to make this button a hamburger icon.
- `type="button"`: Specifies that this button is of type "button" (rather than "submit").
- `data-bs-toggle="collapse"`: This attribute is a Bootstrap data attribute that specifies the target to collapse.
- `data-bs-target="#navbarSupportedContent"`: Points to the `id` of the content to show or hide (in this case, the navbar links).
- `aria-controls="navbarSupportedContent"`: Provides an accessible name to the collapsible region.
- `aria-expanded="false"`: Indicates that the collapsible content is initially not expanded (closed).
- `aria-label="Toggle navigation"`: Provides an accessible label for the toggle button.
- `<span class="navbar-toggler-icon"></span>`: Displays the actual icon for the hamburger button.

5. `<div class="collapse navbar-collapse" id="navbarSupportedContent">`

- `<div class="collapse navbar-collapse"`:
  - `collapse`: Makes this content collapsible.
  - `navbar-collapse`: Styles the collapsible content as part of the navbar.
- `id="navbarSupportedContent"`: This ID is used to link the toggle button with this section, allowing it to be shown or hidden.

6. `<ul class="navbar-nav me-auto mb-2 mb-lg-0">`

- `<ul>`: An unordered list element used for grouping list items.
- `class="navbar-nav me-auto mb-2 mb-lg-0"`:
  - `navbar-nav`: Applies Bootstrap styling to the list items, making them align horizontally in the navbar.
  - `me-auto`: "Margin end auto," which pushes the items to the left and aligns the search form to the right.
  - `mb-2`: "Margin bottom 2" applies a small bottom margin on smaller screens.
  - `mb-lg-0`: Removes the bottom margin on larger screens.

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7. `<li class="nav-item">`

• `<li>`: A list item element used inside the unordered list.

• `class="nav-item"`: Styles the list item as a navigation item in the navbar.

8. `<a class="nav-link active" aria-current="page" href="#">Home</a>`

• `<a class="nav-link active">`:

    • `nav-link`: Styles the link as part of the navbar.

    • `active`: Indicates that this is the current active link (usually the current page).

• `aria-current="page"`: An accessibility attribute that indicates this is the current page.

• `href="#"`: A placeholder link that does nothing but typically would link to the homepage.
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3. DROPDOWN STRUCTURE

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• `dropdown-toggle`: Makes the link behave as a dropdown trigger.

• `data-bs-toggle="dropdown"`: Tells Bootstrap to open the dropdown when clicked.

• `dropdown-menu`: Styles the unordered list as a dropdown menu.

• `dropdown-item`: Styles each link within the dropdown.
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3. DISABLED BUTTON

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• `disabled`: Disables the link, making it unclickable.

• `tabindex="-1"`: Removes the link from the tab order, so it's not focusable.

• `aria-disabled="true"`: Marks the link as disabled for screen readers.
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3. SUBMIT BUTTON

- `<form>`: A form element used to collect user input.
- `class="d-flex"`: Applies a flexbox layout to the form, making the input and button align horizontally.
- `<input>`: An input field for text.
  - `class="form-control me-2"`: Styles the input as a form control and adds some margin to the right.
  - `type="search"`: Specifies that this is a search input.
  - `placeholder="Search"`: Displays placeholder text when the input is empty.
  - `aria-label="Search"`: Provides an accessible label for the input.
- `<button>`: A button to submit the form.
  - `class="btn btn-outline-success"`: Styles the button with an outline and a green success color.