**🔷 What is a Navigation Bar?**

* A **navigation bar** is a **menu**.
* It helps us **move (navigate)** to different parts of the website.
* It is usually placed at the **top of the page**.

**🔷 What Bootstrap Does?**

Bootstrap helps us create a **nice-looking navigation bar** easily using **built-in classes**.

**🔷 Important Bootstrap Classes for Navbar**

| **Class Name** | **What it Does** |
| --- | --- |
| .navbar | Makes the navigation bar |
| .navbar-expand-\* | Makes the menu **expand (show fully)** on larger screens, and **collapse (hide)** on small screens |
| .navbar-light or .navbar-dark | Sets text color to light or dark |
| .bg-light or .bg-dark | Sets background color |
| .navbar-toggler | Adds a **toggle button** for collapsing menu |
| .collapse and .navbar-collapse | Makes the menu **collapsible** on smaller screens |

## .navbar-brand

### 🔹 Meaning:

This class is used to **show the name or logo** of your website inside the navbar.

## What is an Alert?

* An **alert** is a **message box**.
* It is used to **show important information** to the user (like success, warning, or error).
* Bootstrap gives us **ready-made styles** for different types of alerts.

## ✅ How to Create an Alert in Bootstrap?

### ✨ Use this main class:

* .alert → This makes the box look like an alert.

### 🎨 Add one of these ****contextual classes**** to show different ****colors****:

| **Class Name** | **Use For** | **Color** |
| --- | --- | --- |
| .alert-success | Success messages | Green |
| .alert-info | Informational messages | Blue |
| .alert-warning | Warning messages | Yellow/Orange |
| .alert-danger | Error or danger messages | Red |

 **.alert** = Main alert box

 **.alert-success, .alert-info, etc.** = Change the **color** and **meaning** of the alert

 Use alerts to **communicate with the user** quickly

## 🟡 What is a Carousel?

👉 Carousel is just like a **photo slideshow**.

Imagine you’re watching pictures one by one:

* First image appears
* Then after a few seconds, next image comes
* You can also **click buttons** to go to next or previous image

That’s what **Bootstrap Carousel** does on a website!

## 🧒 Everyday Example:

Let’s say you want to show 3 photos on your homepage:

| **Slide** | **What Shows** |
| --- | --- |
| 1 | "Welcome to My Website" image |
| 2 | "Our Courses" image |
| 3 | "Contact Us" image |

Instead of showing all at once, you use a **carousel** to show one-by-one like a storybook 📖.

## 🧱 What Do We Need to Build a Carousel?

| **Part** | **Use** |
| --- | --- |
| A box (carousel) | Holds all slides |
| Slides | Each image or content to show |
| Arrows | To move forward and backward |
| Dots | Small buttons to jump to a specific slide |

## ✅ 1. data-bs-ride="carousel"

🟢 **Where it's used:**  
In the <div> that starts the carousel:

<div id="myCarousel" class="carousel slide" data-bs-ride="carousel">

🧠 **Simple Meaning:**

“Start the carousel automatically when the page loads.”

It tells Bootstrap:

“Keep sliding the images without user clicking anything.”

| **Attribute** | **Use** | **Meaning** |
| --- | --- | --- |
| data-bs-ride="carousel" | Carousel container | Auto-starts the slideshow |
| data-bs-target="#myCarousel" | Button or indicator | Targets which carousel to control |
| data-bs-slide="prev" | Button | Go to previous slide |
| data-bs-slide="next" | Button | Go to next slide |

## What is a Modal?

* A **modal** is a **popup box**.
* It appears **on top of the current page**.
* It is used to show:
  + Messages
  + Forms
  + Confirm buttons
  + Anything you want to show without going to another page.

| **Class** | **Real-World Meaning** | **What it Does** |
| --- | --- | --- |
| modal fade | Like turning on a torch slowly | Makes the popup appear smoothly |
| modal-dialog | The cardboard box | Holds the popup |
| modal-content | The item inside the box | The visible content – title, message, buttons |