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ECE - AIML

FSD ASSIGNMENT 02

AIM: Design & develop a responsive web page using Bootstrap front end framework

OBJECTIVE:

- (1) To understand HTML tags
- (2) To learn the styling of web pages using CSS
- (3) To learn Bootstrap front end framework

* THEORY:

i] Bootstrap Grid system:
→ The bootstrap grid system is a responsive layout framework that uses a 12-column structure to create flexible & adaptive web design. It's based on CSS Flexbox & provides predefined classes to align & distribute content across various screen sizes. The grid system includes following Breakpoints:

- (a) xs (extra small, $< 576\text{px}$)
- (b) sm (small, $\geq 576\text{px}$)
- (c) md (medium, $\geq 768\text{px}$)
- (d) lg (large, $\geq 992\text{px}$)
- (e) xl (extra large, $\geq 1200\text{px}$)
- (f) xx (double extra large, $\geq 1400\text{px}$)

Q2] Bootstrap .container & .container-fluid class
→ .container class creates a fixed-width container that adjusts its size based on the screen breakpoint, maintaining consistent margins.
• Container-fluid class creates a full-width container that spans the entire width of viewport, regardless of screensize, making it ideal for layouts that need to use the full width of the screen.

* FAQ →

Q1] What's a responsive website?

→ A responsive website is a site designed to adopt its layout & content dynamically to fit various screen sizes & devices such as desktops, tablets & smartphones. It ensures optimal user experience by using techniques like flexible grids, fluid images & media queries to adjust the design seamlessly across different resolutions.

Q2] How bootstrap helps to design a responsive website?

→ Bootstrap helps design responsive websites by providing a mobile-first framework with a 12-column grid design, responsive classes & pre-defined CSS styles. Its components such as containers, rows & column adapts layout to various screen sizes.

