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FSD LAB EXPERIMENT-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:

1) BOOTSTRAP GRID SYSTEM:

Ans) The Bootstrap grid system is a responsive layout framework that uses a 12-column structure to create flexible & adaptive web designs. It's based on CSS Flexbox & provides predefined classes to align & distribute content across various screen sizes. The grid system includes foll. key components Breakpoints:

~~(a) Container - Wrapping element (.container or .container-fluid)~~

(a) xs (extra small, < 576 px) (d) lg (large, ≥ 992 px)

(b) sm (small, ≥ 576 px) (e) xl (extra large, ≥ 1200 px)

(c) md (medium, ≥ 768 px) (f) xx (double extra large, ≥ 1400 px)

2) BOOTSTRAP .container & .container-fluid class

Ans) • 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 → A responsive website is a site designed to adapt its layout and content dynamically to fit various screen sizes & devices such as desktops, tablets and 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?

A → 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 layouts to various screen sizes using breakpoints, while utilities like media queries & flexible elements ensure consistent & responsive design across devices.

Website: (Kindly run the index.html code for full responsive demo)

