



PSP EXP. 2

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ECE - HTML

Aim: Design & develop web page using Bootstrap front end framework

- Objective:-
- ① Understand HTML tags
 - ② Learn styling of webpages using CSS
 - ③ Learn Bootstrap frontend framework

Theory → ① Bootstrap Grid System:

It 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:

- a) XS (extra small, < 576 px)

- b) SM (small, ≥ 576 px)

- c) MD (medium, ≥ 768 px)

- d) LG (large, ≥ 992 px)

- e) XL (extra large, ≥ 1200 px)

- f) XX (double extra large, ≥ 1400 px)

② 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 screen-size making it ideal for layouts that need to use full width of the screen.

FAQ →

Q.1] What is a responsive website?

Ans] A responsive website is a site designed to adapt 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.

2.3] How bootstrap helps to design a responsive design?

Ans) Bootstrap helps design responsive websites by providing a mobile-first framework with a 12-column grid design, responsive classes & predefined CSS styles. Its components such as containers, rows & column adapt layout to various

screen sizes.