

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,  $\geq 576$  px)

- c) MD (medium,  $\geq 768$  px)

- d) LG (large,  $\geq 992$  px)

- e) XL (extra large,  $\geq 1200$  px)

- f) XX (double extra large,  $\geq 1400$  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.

2.7] 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.