FSD Assignment - ①

Aim:

To develop responsive web design using HTML5, containing a form. style the pages using CSS. Use of tag selector, class selector and id selector. Use Inline, Internal and External CSS, Apply Bootstrap css

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) Define Responsive Web Design (RWD). What is primary goal?

RWD is an approach to web design that makes web pages render well on a variety of devices and window on screen sizes from minimum to maximum width

Primary goal:

① To provide an optimal viewing and interaction experience - such as easy reading and navigation with minimum of resizing, panning and scrolling - across a wide range of devices, especially mobile phones and tablets.

2) Explain role of < meta name = "viewport"...> tag. Why is this tag essential for RWD.

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2) The `<meta name="viewport">` tag:

Role:
This tag is placed in the HTML `<head>` and tells the browser how to control the page's dimensions and scaling to fit the device's screen.

Essential for RWD:
Without it, mobile browsers would render the page at a default desktop width, appearing zoomed out and causing poor user experience. The tag ensures the page width is set to the device's width and initial zoom level is set to 1:1, allowing content to be readable without zooming in.

③ Bootstrap and Grid System Assistance in RWD?
Bootstrap's grid system uses a system of rows and columns to structure web page layouts.
How it Adapts: You define content within rows and columns automatically adjust their width and arrangement often collapsing into a single column on smaller screens, to fit the new viewport. This flexibility ensures content reflows correctly, creating a seamless experience.

④ Differentiating between Tag, Class and ID selectors

Tag Selector:

Selects elements based on their HTML tag name. (eg: p for all paragraph tags, h1 for all heading 1 tags)

Class Selector:

Selects any element that have a specific class attribute

assigned to them (eg., my-class selects all elements with class = "my-class"). A class can be used on multiple elements.

ID selector:

Select a single, unique element that has a specific id attribute (eg: #unique-id selects the element with id = "unique-id") Each ID on a page must be unique.

(5) Ways to apply CSS to an HTML document?

1) Inline styles:

CSS properties are added directly to individual HTML elements using blue style attribute (eg <p style = "color. blue;" > This text is blue. </p>).

2) Internal Stylesheets:

CSS rules are placed within a <style> tag in the <head> section of the HTML document. This is useful for single-page websites or when the styling is specific to that one document.

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