

Assignment # 04

Presentation

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Page.tsx (page)

- This file shows the content of a page.
- Every page.tsx inside a folder is a new webpage.
- Example:
- If you have app/home/page.tsx, it will show when you visit /home.

Layout.tsx

This file wraps multiple pages and adds common parts like a header, sidebar, or footer.

It keeps the layout same for all pages inside a folder.

Example:

If you have `app/home/layout.tsx`, it will wrap all pages inside `/home`.

How They Work Together?

Think of a burger :

- **layout.tsx = Bun (same for all)**
- **page.tsx = Different fillings (changes on each page)**
- **So, every page (page.tsx) sits inside the layout (layout.tsx).**

- The <link> tag is used in HTML to connect a webpage to external resources like stylesheets (CSS).

Why do we use it?

- To add styles (CSS) to a webpage or link other resources like icons.

Purpose:

- It helps make the webpage look nice by applying styles from an external CSS file.

What Are Components?

Components are small, reusable building blocks of a webpage in Next.js. They help organize code, making it easy to manage, reuse, and update.

Why do we use them?

- **Write once, use multiple times, reducing code duplication.**
- **Makes it easier to update and debug specific UI sections.**
- **Allows large applications to be built in a structured manner.**
- **Organizes code logically, making it easier to understand.**
- **Helps in rendering only the necessary parts of the UI efficiently.**

How can we apply CSS in Next.js?

- **Global CSS** applies one CSS file for the entire website.
- **CSS Modules** limit styles to specific components, preventing overlap.
- **Styled Components** let you define styles within JavaScript code.
- **Tailwind CSS** offers ready-to-use classes for quick styling.

What is Tailwind CSS?

- It is a framework with pre-made classes.
- It helps you style HTML elements easily.
- You don't need to write custom CSS.
- Use these classes to add styles like colors, spacing, and more.
- It makes designing websites quicker and easier.

Write difference between Tailwind CSS and Standard CSS.

Tailwind CSS

- Provides pre-built utility classes for styling.**
- Faster for simple designs as you apply small classes directly in HTML.**
- Helps maintain a consistent design system.**
- Can make HTML look crowded with many class names.**
- Less flexible for complex layouts compared to custom CSS.**

(Standard CSS)

- **Requires writing custom styles for each element.**
- **More control and flexibility over design.**
- **Allows for complex layouts and specific styling.**
- **Keeps styles separate from HTML, making the HTML cleaner.**
- **Takes more time to write and manage compared to Tailwind CSS.**

Thankyou