NextJS

Installation & Setup

Step1: Install Next.js using npm or yarn:

npx create-next-app@latest my-next-app

OR

yarn create next-app my-next-app

Step 2: Step 3: Navigate into the project directory and run the development server

cd my-next-app npm run dev

Pages and Routing

File-Based Routing: Each file in the /pages directory becomes a route.

pages/index.js → /

pages/about.js → /about

Dynamic Routes: Use brackets for dynamic routes.

pages/posts/[id].js → /posts/1

File Structure Overview

Key Folders:

/pages: For page-based routing.

/public: For static assets (images, fonts, etc.).

/styles: For CSS files.

Next.js automatically handles routing based on files in /pages.

File Structure Overview

node_modules/

This directory is where all your project's dependencies (installed via npm or yarn) are stored. You typically won't interact with this folder directly.

.next/

This folder is automatically generated after building the application (e.g., npm run build or npm run dev). It contains compiled code and cached files for faster performance.

File Structure Overview

Package.json

A metadata file that defines your project. It lists dependencies, scripts, and other configurations.

Important Fields:

dependencies: Lists the npm packages required by your project.

scripts: Contains predefined scripts for common tasks like running the dev server or building the app.

.gitignore

Lists files and directories that Git should ignore when committing changes. Typically includes node_modules/, .next/, and other system-specific files.

Custom Folders

components/: A common convention is to store reusable UI components in this folder.

lib/ or utils/: Stores utility functions, API helpers, or custom hooks.

hooks/: Stores custom React hooks if your project uses them.