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Introduction to Next.js

Unlock powerful web apps with Next.js!

DEFINITION

Next.js is a React framework that enables server-side rendering and static site generation. It simplifies building fast and SEO-friendly web applications.

KEY CONCEPTS

Server-Side Rendering

Next.js can render pages on the server, improving load times and SEO.

Static Site Generation

Pre-renders pages at build time, making them faster and more efficient.

API Routes

Allows you to create serverless functions directly in your Next.js app for backend logic.

Dynamic Routing

Enables creating routes based on data, making your app flexible and scalable.

Image Optimization

Automatically optimizes images for faster loading and better performance.

EXAMPLES

- Creating a blog with server-side rendered posts.
- Building an e-commerce site with dynamic product pages.
- Implementing a dashboard with API routes for data fetching.

MEMORY TIPS

- ★ Remember 'SSR' for Server-Side Rendering as 'Speedy Site Response'.
- ★ Think of 'SSG' as 'Static Superfast Generation'.
- ★ Use 'API' as 'All Pages Integrated' to recall API Routes.

COMMON MISTAKES

- ✗ Neglecting to optimize images, leading to slow load times.
- ✗ Confusing static and dynamic routes.
- ✗ Forgetting to handle API errors properly.

QUICK RECAP

Next.js is a powerful framework for building React applications with features like server-side rendering and static site generation. It enhances performance and SEO, making it ideal for modern web development.