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Introduction to Next.js

Unlock the power of server-side rendering with Next.js!

DEFINITION

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

KEY CONCEPTS

Server-Side Rendering

Next.js allows pages to be rendered on the server, improving load times and SEO.

Static Site Generation

It can pre-render pages at build time, serving static HTML for faster performance.

API Routes

Next.js supports creating API endpoints within the application, simplifying backend integration.

File-Based Routing

Pages are created based on the file structure in the 'pages' directory, making routing intuitive.

Image Optimization

Next.js automatically optimizes images for faster loading and better performance.

EXAMPLES

→ Creating a blog with dynamic routes using Next.js.

→ Building an e-commerce site with server-side rendered product pages.

→ Implementing a dashboard with API routes for data fetching.

MEMORY TIPS

★ Remember 'SSR' for Server-Side Rendering and 'SSG' for Static Site Generation.

★ Think of 'pages' as folders in a filing cabinet for easy routing.

★ Visualize Next.js as a bridge connecting React and server capabilities.

COMMON MISTAKES

✗ Forgetting to export components from pages, leading to 404 errors.

✗ Neglecting to use 'getStaticProps' or 'getServerSideProps' for data fetching.

✗ Misconfiguring API routes, causing issues with data retrieval.

QUICK RECAP

Next.js is a powerful framework for building React applications with server-side rendering and static site generation. Key features include file-based routing and API routes, making development efficient and scalable.