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Introduction to Static Site Generation

Static Site Generation: Fast, Simple, and Efficient Websites

DEFINITION

> Static Site Generation (SSG) is a method of creating websites where pages are pre-built and served as static files. This approach enhances speed and security by delivering content without server-side processing.

KEY CONCEPTS

Pre-rendering

Pages are generated at build time, resulting in static HTML files ready for delivery.

Performance

Static sites load faster since they require fewer resources compared to dynamic sites.

Security

With no server-side processing, static sites are less vulnerable to attacks like SQL injection.

Hosting Simplicity

Static files can be hosted on any web server or content delivery network (CDN) easily.

Version Control

Static sites can be managed with version control systems, making collaboration easier.

EXAMPLES

→ A personal blog built with Jekyll.

→ A documentation site generated by Hugo.

→ A portfolio website using Gatsby.

MEMORY TIPS

★ Think 'Static = Speed' to remember the performance benefits.

★ Use 'Pre-built Pages' to recall how SSG works.

★ Remember 'Less Processing = More Security' for SSG's safety advantage.

COMMON MISTAKES

✗ Confusing static sites with dynamic sites.

✗ Neglecting to update content after the initial build.

✗ Overlooking the need for a build process.

QUICK RECAP

Static Site Generation creates fast and secure websites by pre-rendering pages. It simplifies hosting and enhances performance while reducing security risks. Remember the key benefits: speed, security, and simplicity.