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IT & Software › Full Stack Development › Monorepos

Introduction to Monorepos

Streamline Development with Monorepos for Better Collaboration!

DEFINITION

> Monorepos are single repositories that house multiple projects, enabling easier management and collaboration. They simplify dependency management and code sharing across projects.

KEY CONCEPTS

Single Repository

All code for different projects is stored in one central location.

Code Sharing

Easily share code and libraries between projects without duplication.

Dependency Management

Manage dependencies centrally, reducing version conflicts and improving consistency.

Tooling Support

Many tools and frameworks support monorepos, enhancing build and test processes.

Scalability

Monorepos can scale efficiently as the number of projects and teams grows.

EXAMPLES

→ Google uses a monorepo for its vast array of projects.

→ Facebook manages its codebase with a monorepo for better collaboration.

→ A startup consolidates its web and mobile apps into a single monorepo.

MEMORY TIPS

★ Think of a monorepo as a library that contains all books (projects) in one place.

★ Remember 'one repo, many projects' to visualize its structure.

★ Use the acronym 'SCCDS' (Single, Code, Central, Dependencies, Scalability) to recall key features.

COMMON MISTAKES

✗ Confusing monorepos with multiple repositories, leading to mismanagement.

✗ Neglecting to set up proper tooling, which can complicate builds.

✗ Overlooking the need for clear project boundaries, causing confusion.

QUICK RECAP

Monorepos centralize multiple projects in a single repository, enhancing collaboration and dependency management. They are scalable and supported by various tools, but require clear organization to avoid confusion.