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1-DEFINITION OF DESIGN PATTERNS?

Design Patterns

In software engineering, design patterns are reusable solutions to common problems that occur within a given context in software design. They provide a template for how to solve a problem in a way that can be reused across different projects



2- IMPORTANCE IN SOFTWARE DEVELOPMENT

DESIGN PATTERNS ARE ESSENTIAL IN SOFTWARE DEVELOPMENT FOR SEVERAL REASONS.

Efficiency



User Experience

Collaboration



Scalability

Problem-Solving

Economic Growth







OVERVIEW OF CATEGORIES:,,

Creational

Singleton,
Factory Method,
and
Abstract Factory

Structural

Adapter,
Composite,
and
Decorator

Behavioral

include Observer,
Strategy,
and
Command