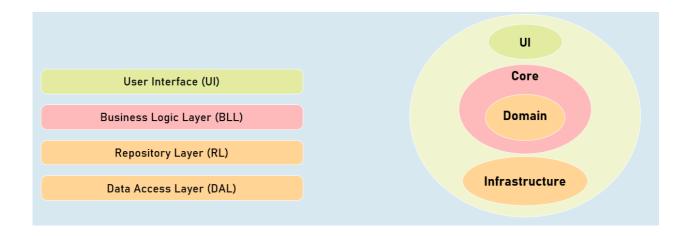
Section Cheat Sheet (PPT)

Overview of Clean Architecture

Instead of "business logic" depend on "data access logic", this dependency is inverted; that means, the "data access logic" depend on "business logic".

Benefit: The business logic is highly cleanseparated, independent of data storage and UI, unit-testable.



Traditional Three-Tier / N-Tier Architecture

- 1. User Interface (UI)
- 2. Business Logic Layer (BLL)

- 3. Repository Layer (RL)
- 4. Data Access Layer (DAL)

Clean Architecture

UI

- 1. Controllers, Views, View Models
- 2. Filters, Middleware

Core

- Business Logic Services
- 2. Business Logic Interfaces
- 3. Data Transfer Objects (DTO)

Domain

Repository Interfaces

2. Entity Classes

Infrastructure

- DbContext, Repositories
- 2 External API Calls

Clean Architecture

Changing external system

Allows you to change external systems (external APIs / third party services) easily, without affecting the application core.

Scalable

You can easily scale-up or scale-out, without really affecting overall architecture of the application.

Database independent

The application core doesn't depend on specific databases; so you can change it any time, without affecting the application core.

Testable

The application core doesn't depend on any other external APIs or repositories; so that you can write unit tests against business logic services easily by mocking essential repositories.

Clean architecture is earlier named as "Hexagonal architecture", "Onion architecture", "Domain-Driven Design", "Vertical Slice Architecture". Over time, it is popular as "clean architecture".

Clean Architecture

