

Onion orchitecture is a form of layered orchitecture & we Con visualize these layers as Concentric layers. precentation - Usually have 4 layers.

- Domain layer - Service layer - Infrastructure layer - Presentation Layer

Advantages of onion orchitecture.

- All of the layer interact with even other strictly through the interfaces defined in the layer below.

the Flow of dependencies is towards the core of the - Using dependency inversion throughout the project, depending on

abstractions (interfaces) & not the implementations, allowe les to Switch out the Implementation at runtime transparently. - We are depending on abstractions at compile-time, which gives us strict contracts to work with, & we are being Provided with implementation at runtime.

Domain

15 very high with the onion orcelitecture because everything depends on abstractions.

Flow of Dependencies

the main idea behind the onion architecture is the flow of dependencies, or rather how the layers interact with each other,

the deeper the layer resides inside me onion, fewer dependencies it has.

- the Domain layer does. Not have only direct dependencies on the outside layers. It is isolated, in way, from the outside world. the outer layers are all ahowed to reference the layer that are directly below them in the hierarchy. - we can conclude that all dependencies in onion orchitecture

Flow Inwords - the from of dependencies dictates what a certain layer in the onion orchitecture can do. Because It depends on the layers below it in the hiearchy.

- We can use lower layer of the onion overlitecture to define contracts or interfaces.

the outer layers of the orchitecture implement their interfaces that means that in Domain layer, we are not concerned ourselves with infrastructure details such as the database of external services.

The database of external services.

Using these approach, we can encapsulate all of the rich business logic in the Domain & Service layers without business logic in the Domain & Service layers without ever having to know any implementation details.

Ever having to know any implementation details.

In the Service layer, we are Joing Interfaces then one defined by the layer below, which is the Domain layer

The Domain layer

At you can see, It consists

Solution 'OnionArchitecture' (8 of 8 projects)

Core

Core

Contracts

Commain

Comm

of the Web Project, & Six

class libories. the Domain

Project will hold the Domain

Layer implementation.

the Services & Services. Abstractions

ore going to be our Service layer

Project will be our infrastructure Layer, & Presentation Project
will be the Presentation layer implementation.