

TIPS

---



# Clean Architecture in Flutter?

[sohailokzz.github.io](https://sohailokzz.github.io)

---



Clean Architecture is a software design principle that aims to create a clear separation of concerns by defining different layers of abstraction in an application. Clean Architecture is also known as Hexagonal Architecture or Onion Architecture.



## **In Flutter:**

In the context of Flutter, Clean Architecture involves creating a modular application structure where each module has its own set of responsibilities and dependencies. There are typically four main layers in Clean Architecture: Presentation, Domain, Data, and Infrastructure.



## Presentation layer:

This layer contains the user interface of the application. In Flutter, this layer can be implemented using widgets and screens.



## Domain layer:

This layer contains the business logic of the application. In Flutter, this layer can be implemented using classes that define the operations and data structures needed for the application.



## Data layer:

This layer contains the implementation of data sources, such as APIs, databases, or file systems. In Flutter, this layer can be implemented using repositories or data sources that provide access to the data needed by the application.



## Infrastructure layer:

This layer contains the implementation of external libraries and services that the application depends on. In Flutter, this layer can be implemented using packages and plugins.



## Summary:

To implement Clean Architecture in Flutter, you can start by creating a separate directory for each layer of the architecture. Each layer should have its own set of classes and interfaces that define the responsibilities and dependencies of that layer. You can use dependency injection to manage the dependencies between the layers.





By using Clean Architecture in Flutter, you can create a more maintainable, testable, and scalable application. The separation of concerns and the use of interfaces and dependency injection make it easier to modify and extend the application without affecting other parts of the code.

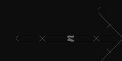
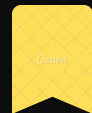


# Muhammad Sohail

Flutter Developer

**Was this article  
helpful to you?**

Please like and share it  
to your friends for supporting us!



[sohailokzz.github.io](https://sohailokzz.github.io)