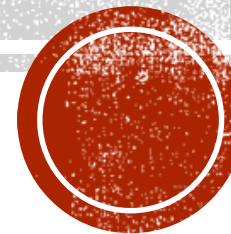


# РАЗВОЈ СОФТВЕРА 2

Слојевита архитектура. Апликативни слој.

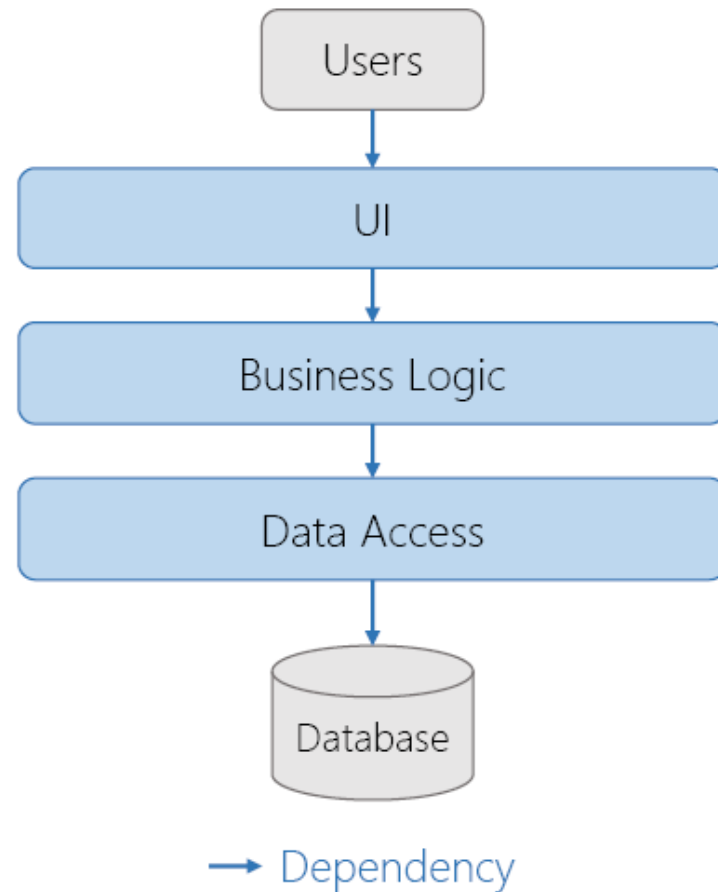


# What Are Layers?

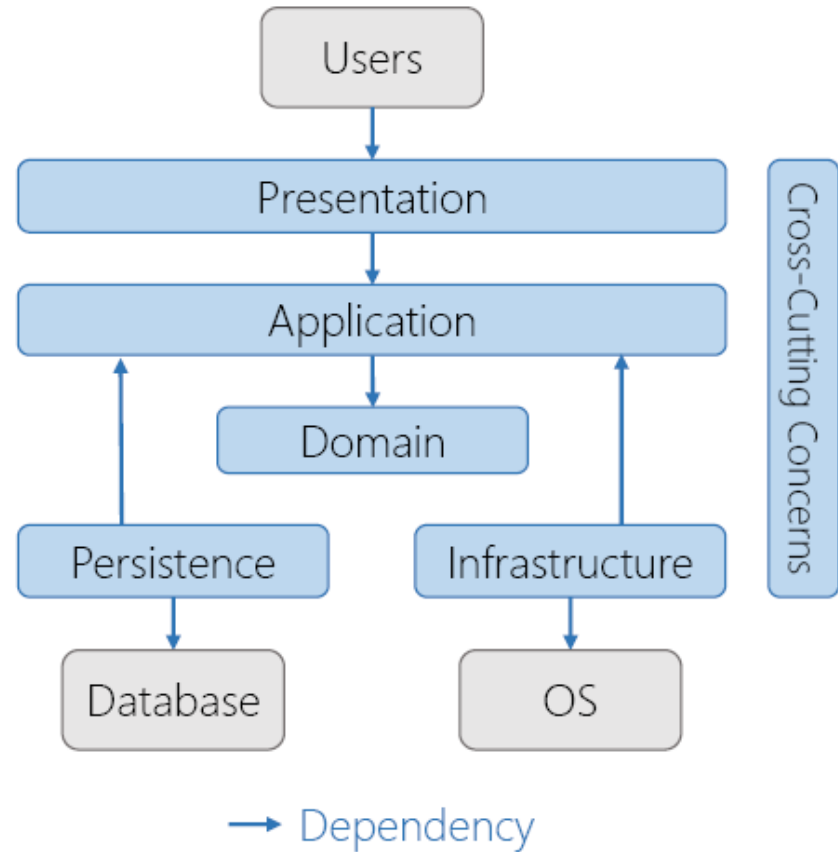
Levels of abstraction  
Single-Responsibility Principle  
Developer roles / skills  
Multiple implementations  
Varying rates of change

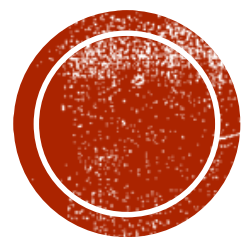


# Classic 3-Layer Architecture



# Modern 4-Layer Architecture



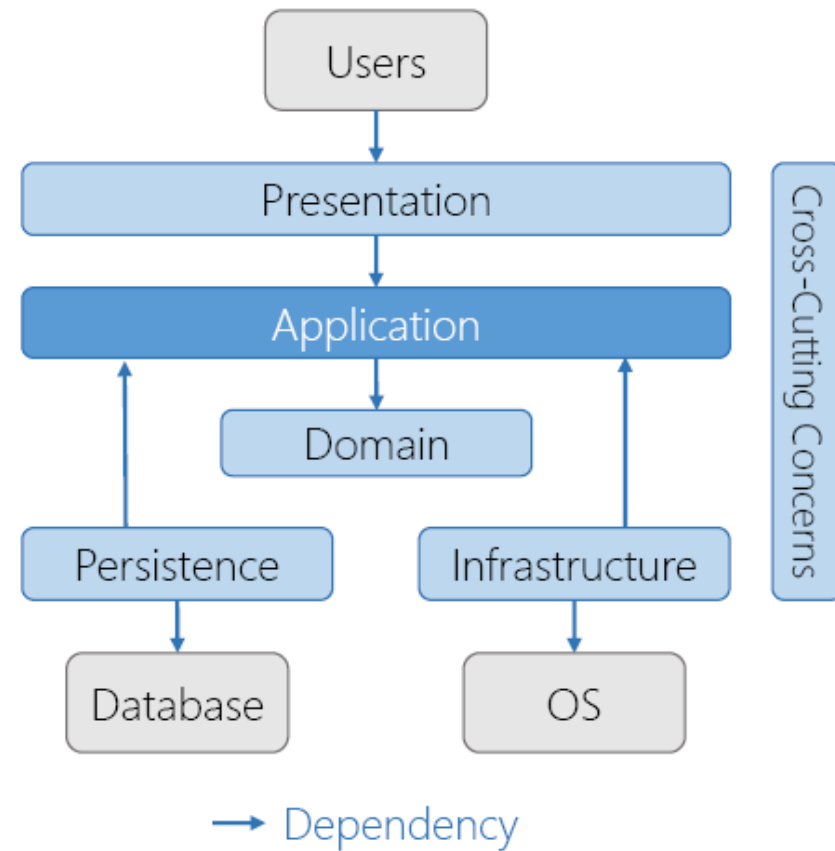


# АПЛИКАТИВНИ СЛОЈ



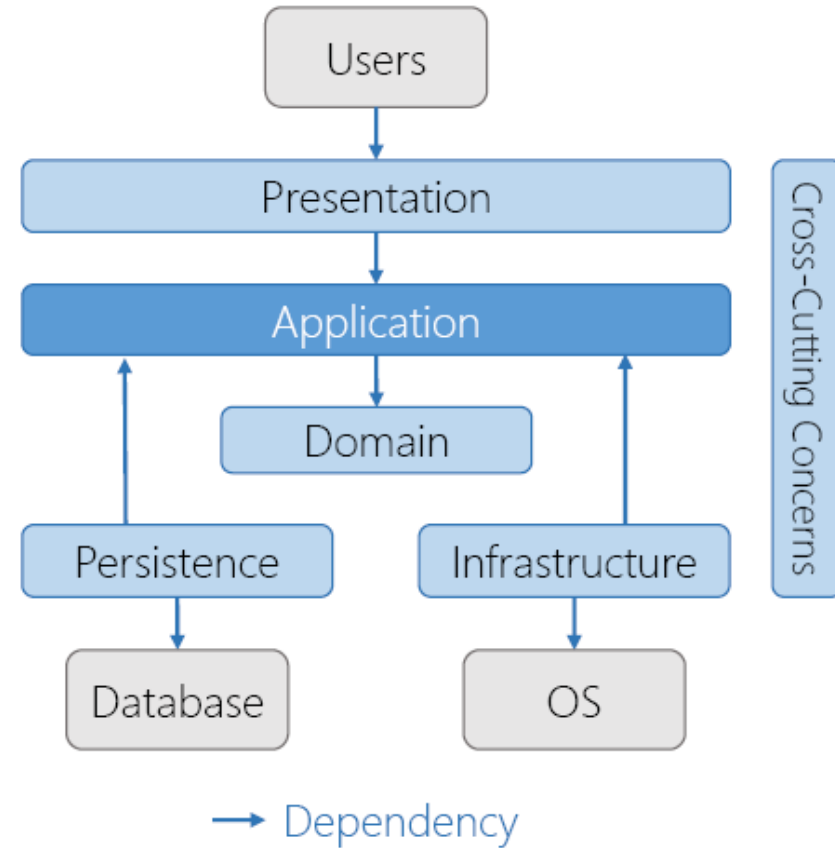
# Application Layer

Implements use cases



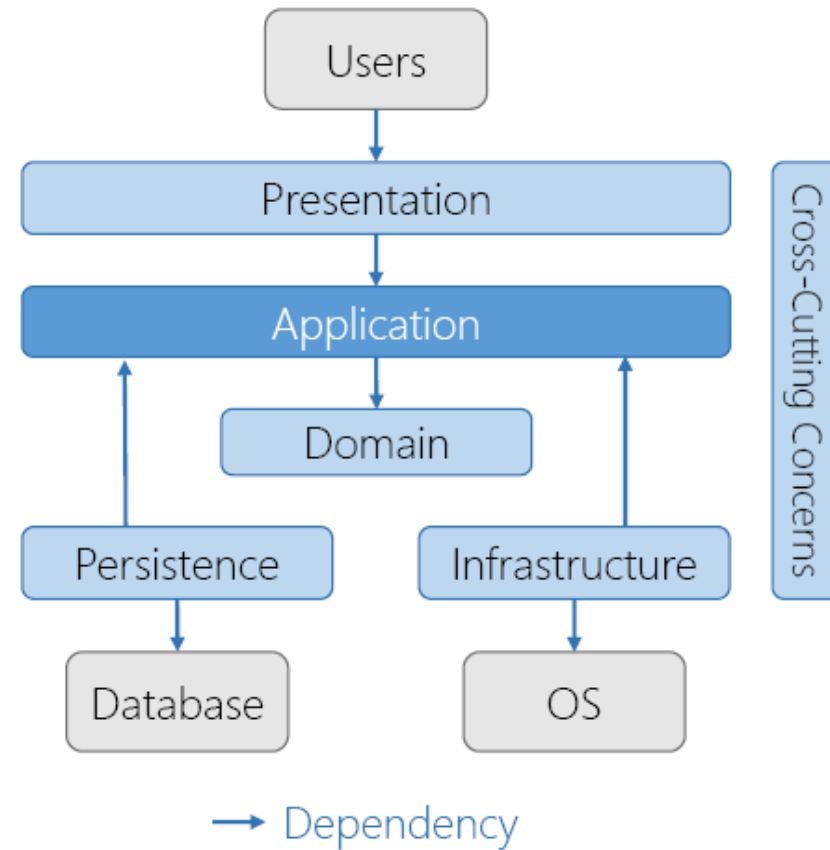
# Application Layer

Implements use cases  
High-level application logic



# Application Layer

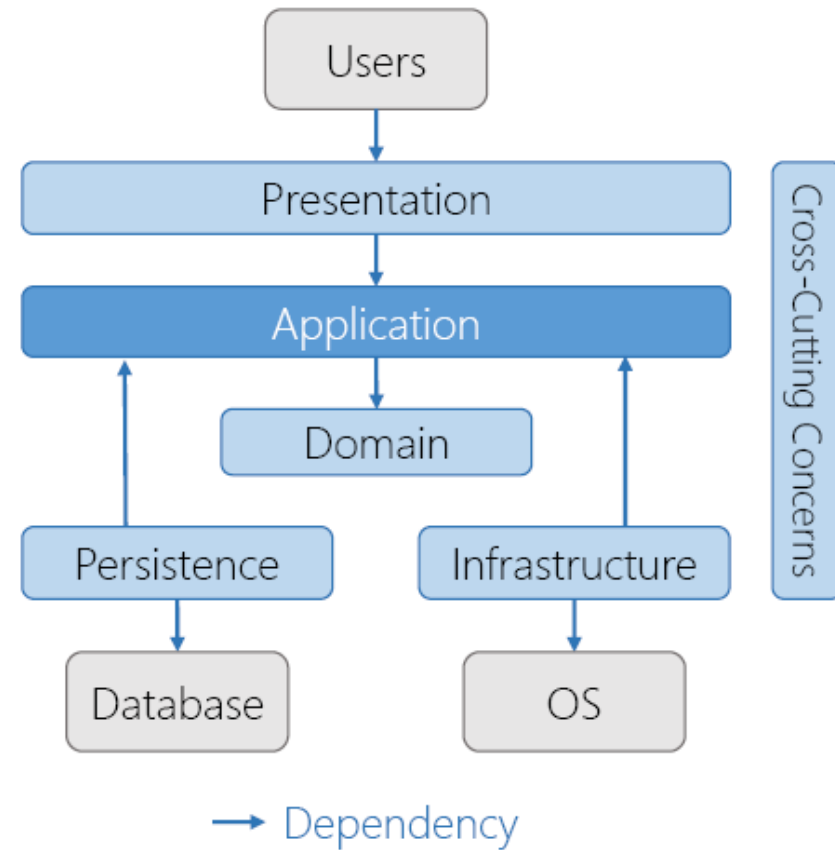
Implements use cases  
High-level application logic  
Knows about domain





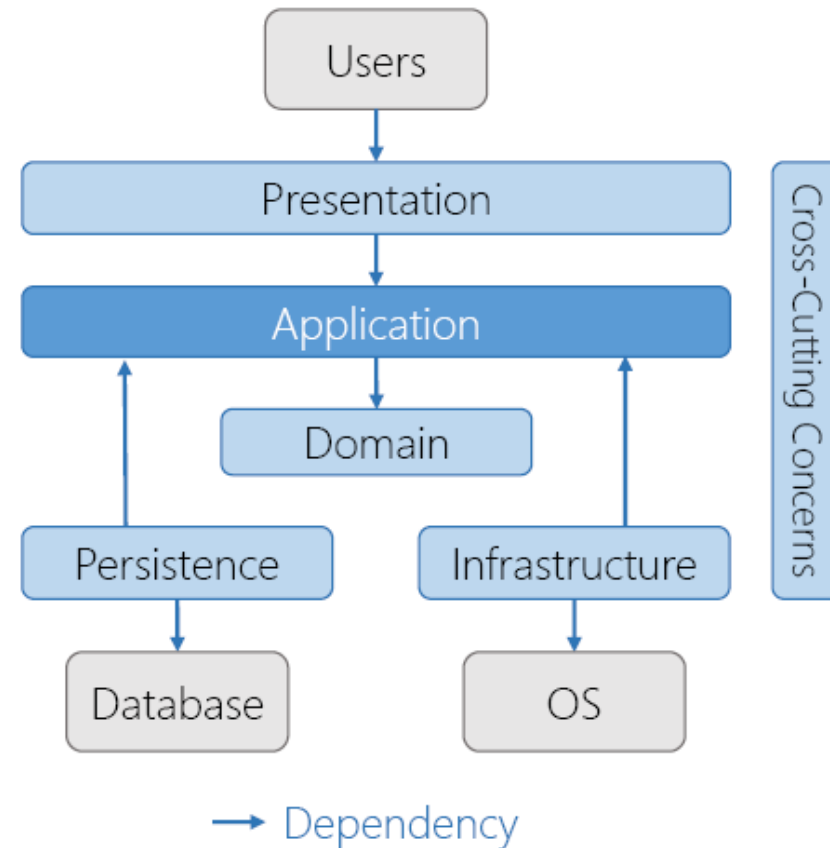
# Application Layer

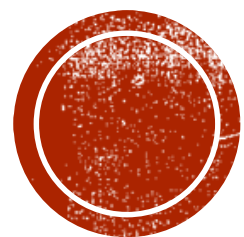
Implements use cases  
High-level application logic  
Knows about domain  
No knowledge of other layers



# Application Layer

- Implements use cases
- High-level application logic
- Knows about domain
- No knowledge of other layers
- Contains interfaces for details



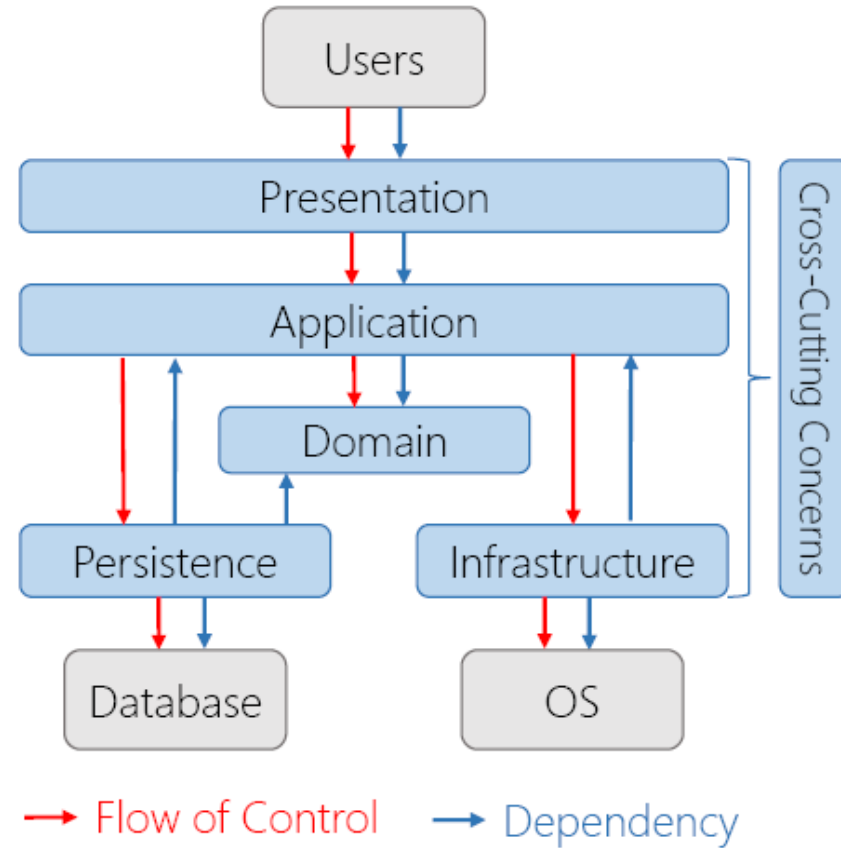


# ЗАВИСНОСТИ ИЗМЕЋУ СЛОЈЕВА



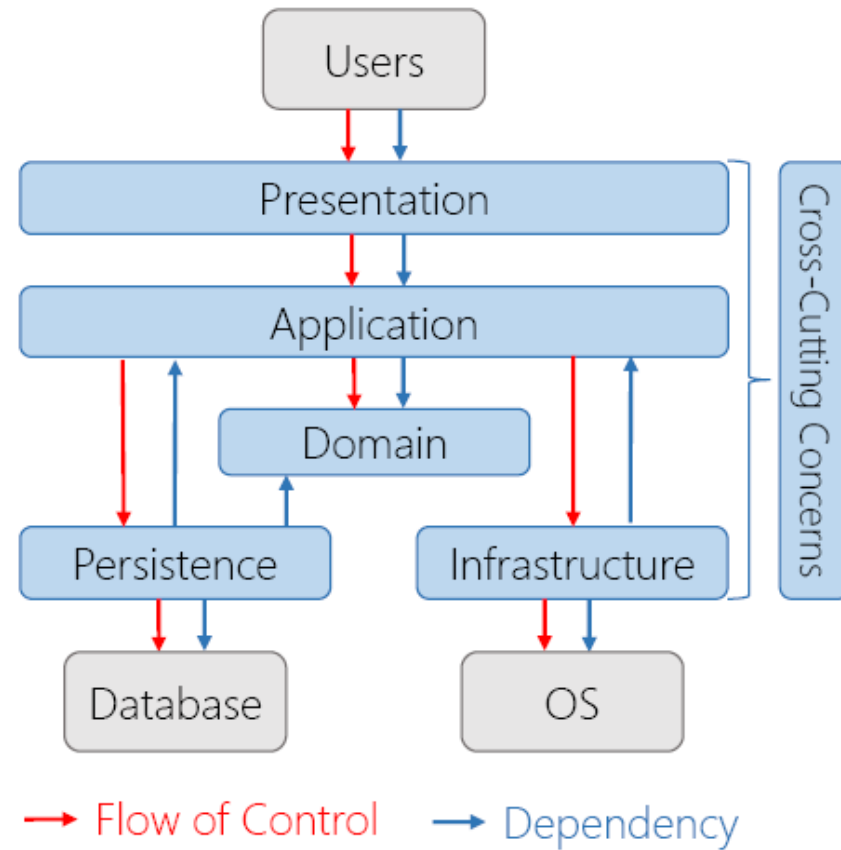
# Layer Dependencies

Dependency inversion



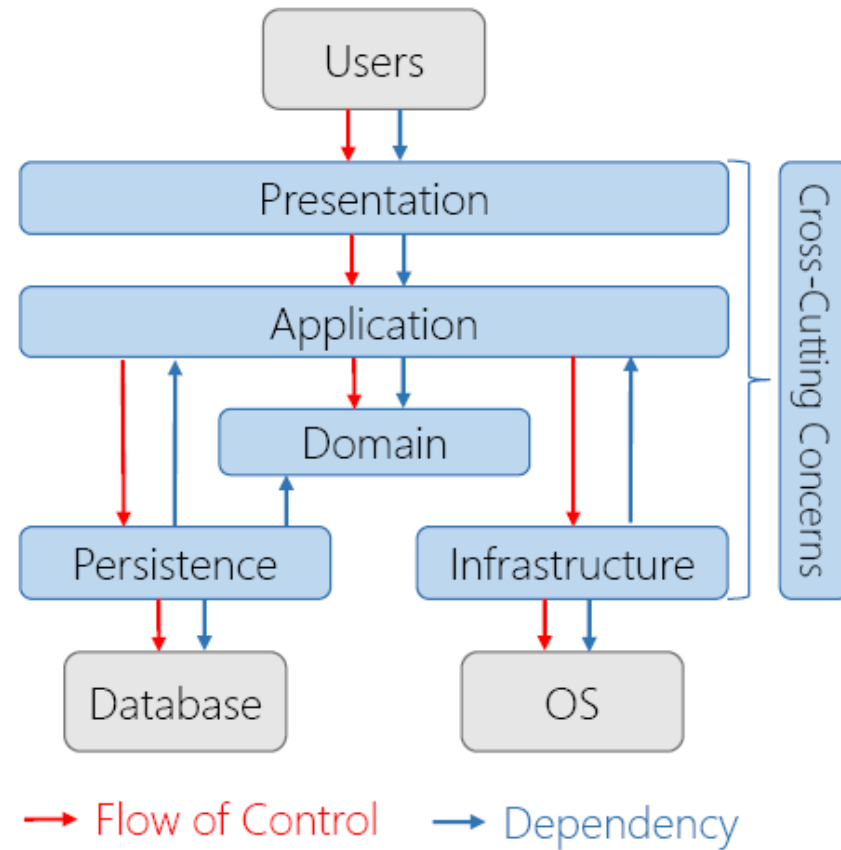
# Layer Dependencies

Dependency inversion  
Inversion of control



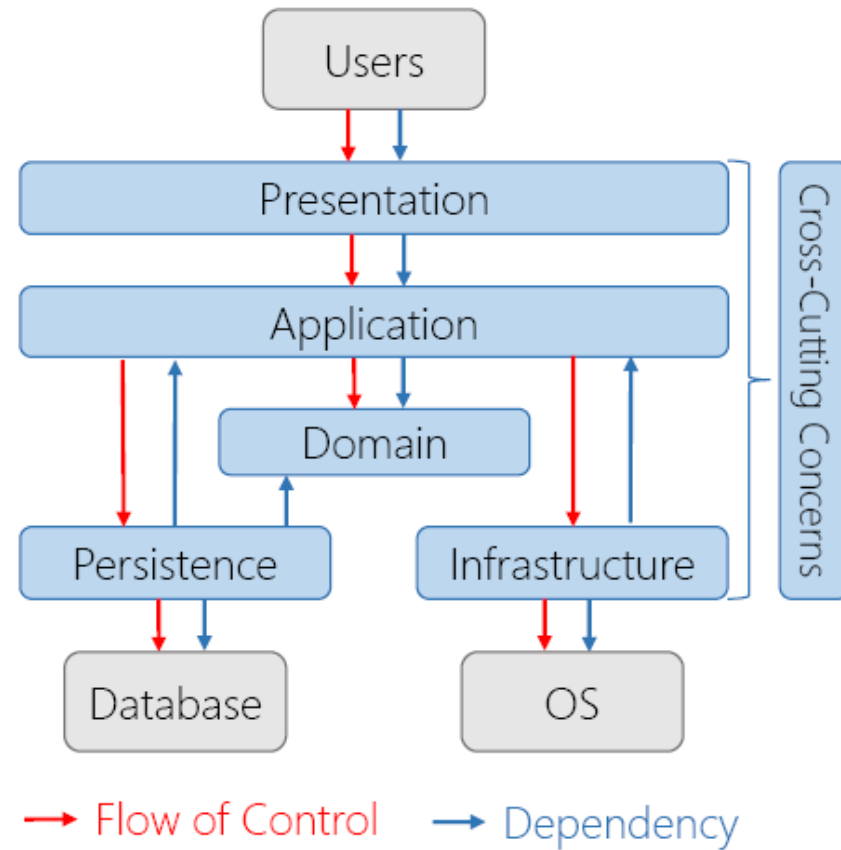
# Layer Dependencies

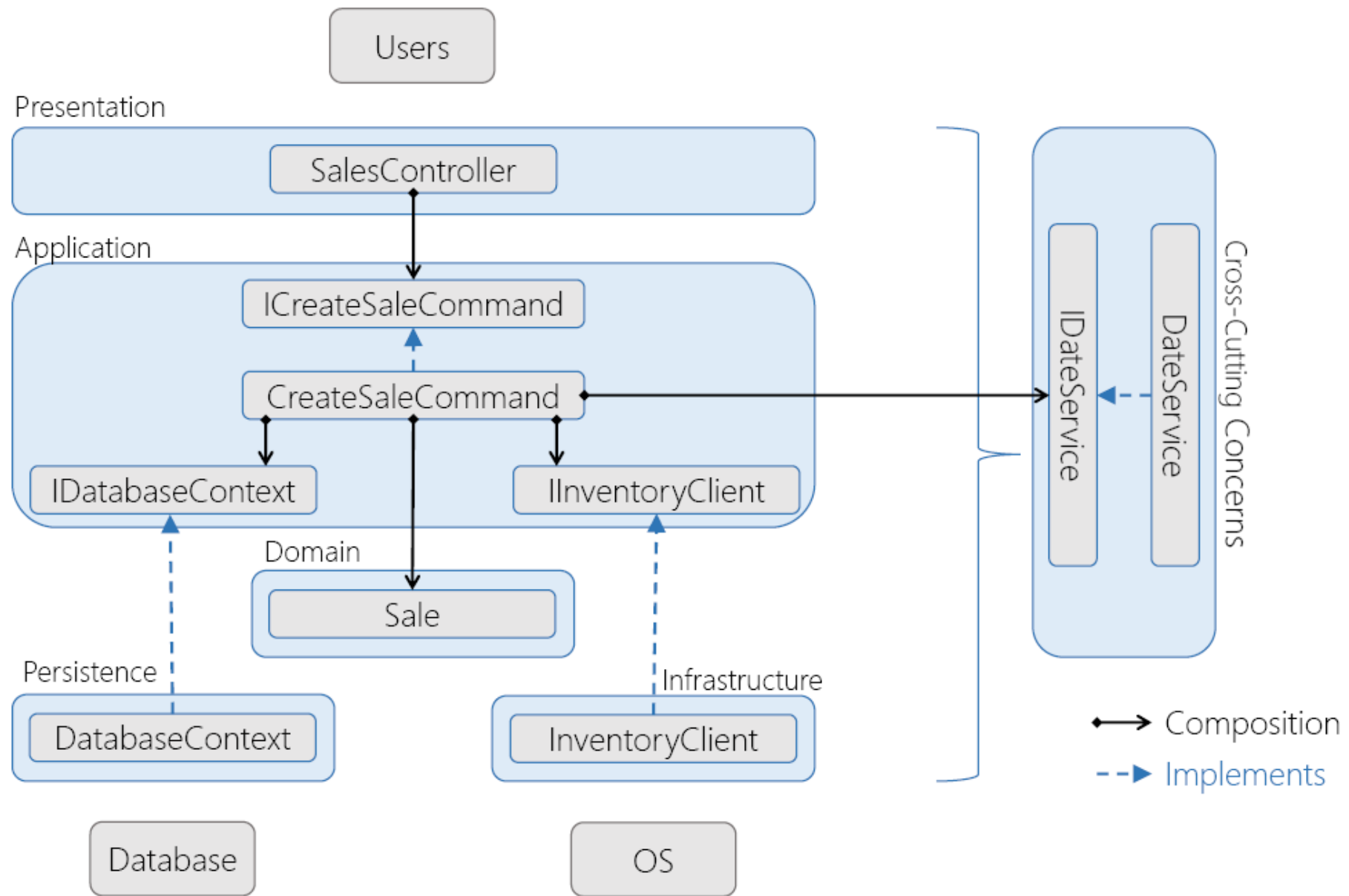
Dependency inversion  
Inversion of control  
Independent deployability



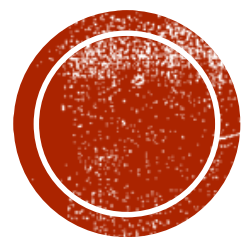
# Layer Dependencies

Dependency inversion  
Inversion of control  
Independent deployability  
Flexibility and maintainability









# ПРЕДНОСТИ И НЕДОСТАЦИ КОРИШЋЕЊА АПЛИКАТИВНОГ СЛОЈА



# Why Use an Application Layer?

## Pros

Focus is on use cases

Easy to understand

Follows DIP



# Why Use an Application Layer?

## Pros

- Focus is on use cases
- Easy to understand
- Follows DIP

## Cons

- Additional cost
- Requires extra thought
- IoC is counter-intuitive

