



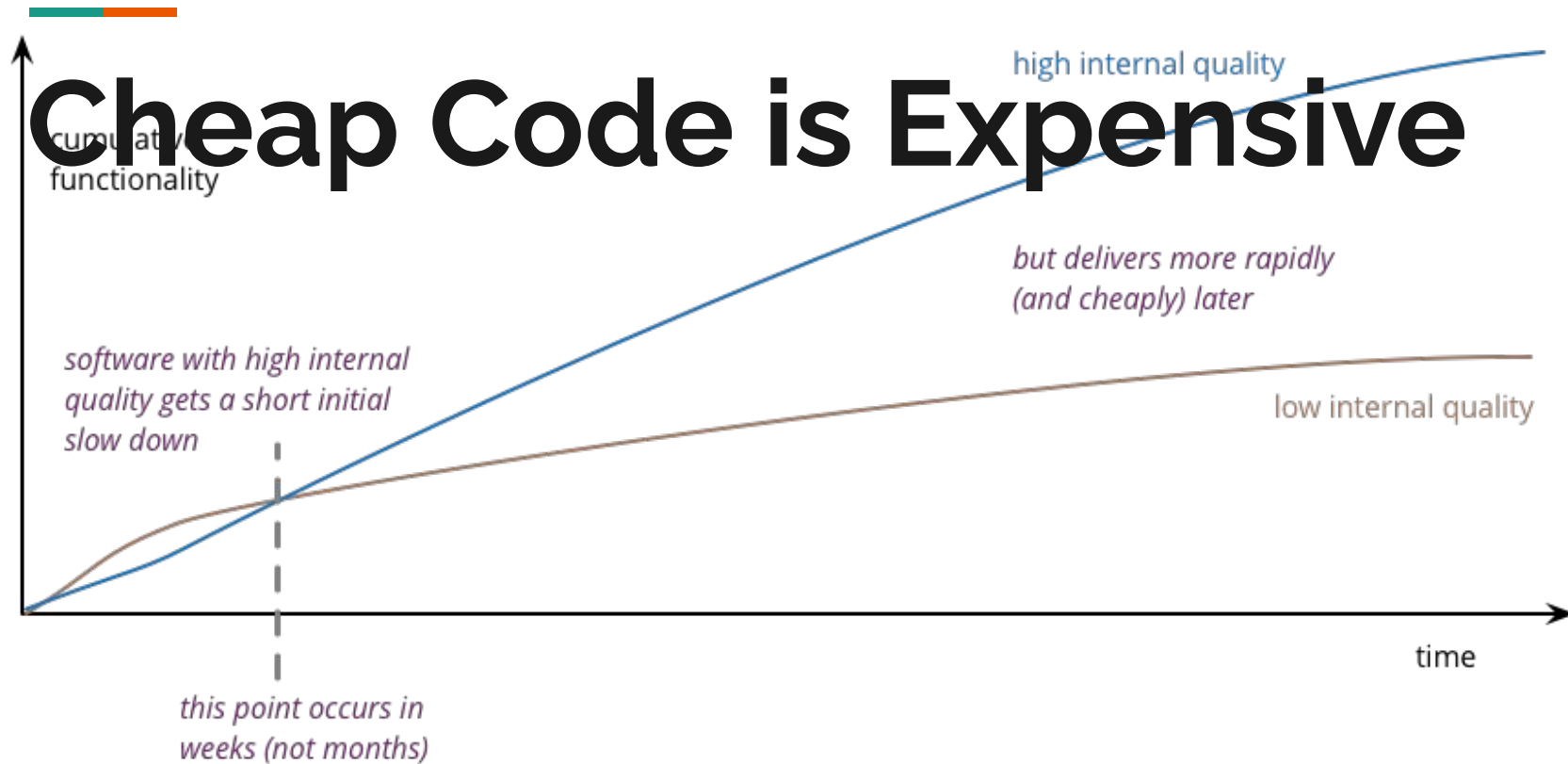
Clean Architecture

Ahmed M. Hassan



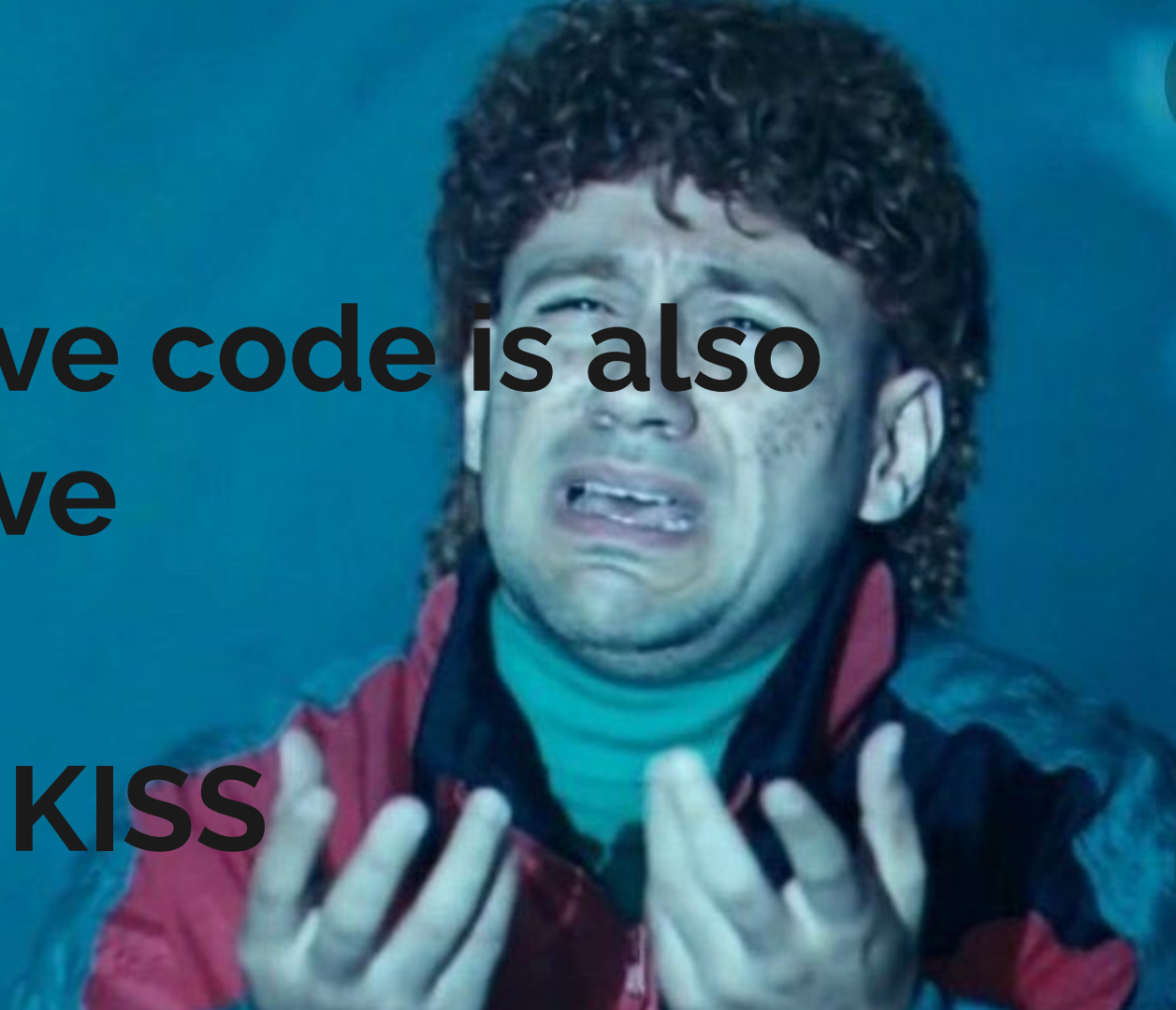
+7.5lbs next set

Cheap Code is Expensive



**Expensive code is also
expensive**

YAGNI - KISS





Fundamental Software Objectives

Separation of Concerns



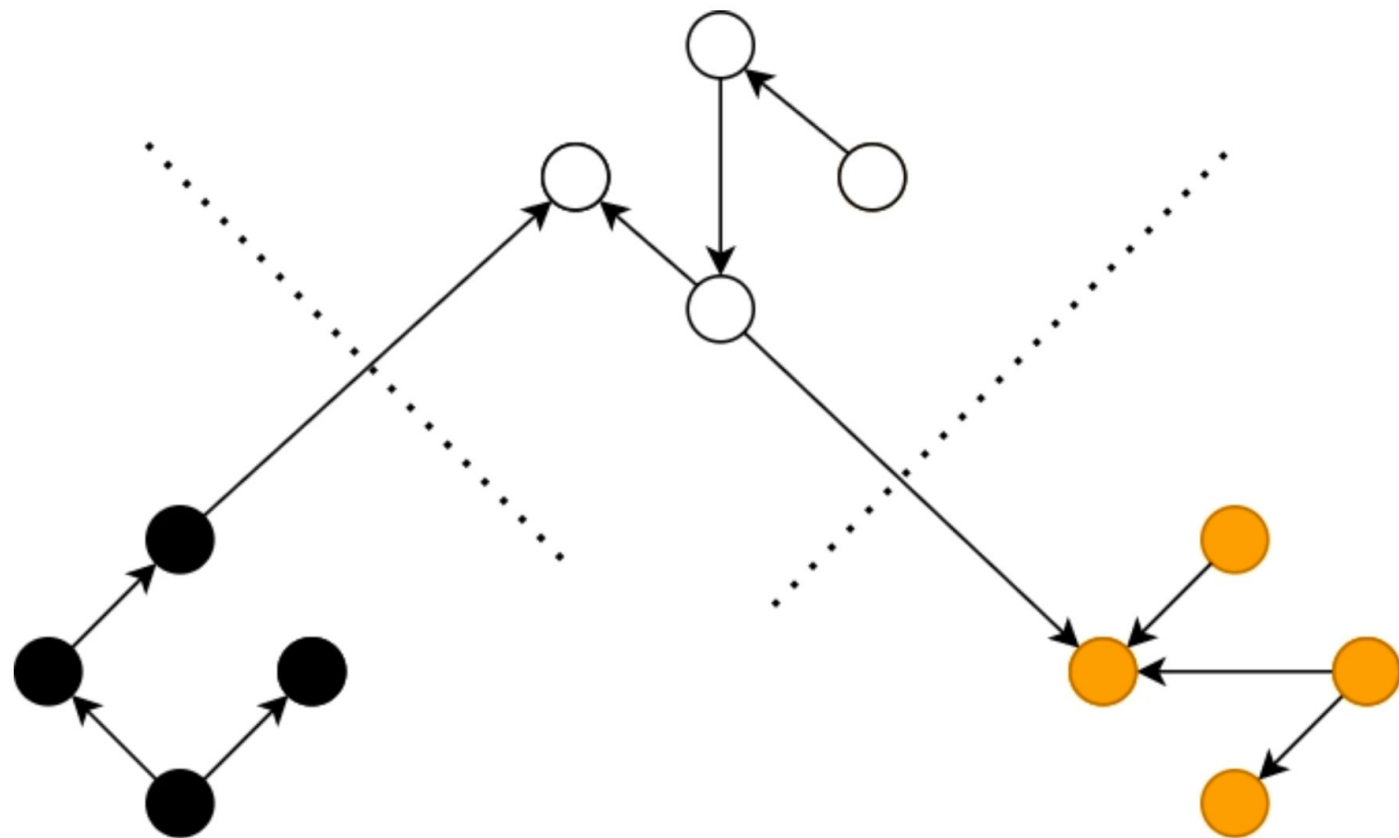
// High cohesion: Each class has a single responsibility

```
class UserManager {  
    func login(email: String, password: String) -> Bool {  
        // Perform login  
        return true  
    }  
  
    func logout() {  
        // Perform logout  
    }  
}
```

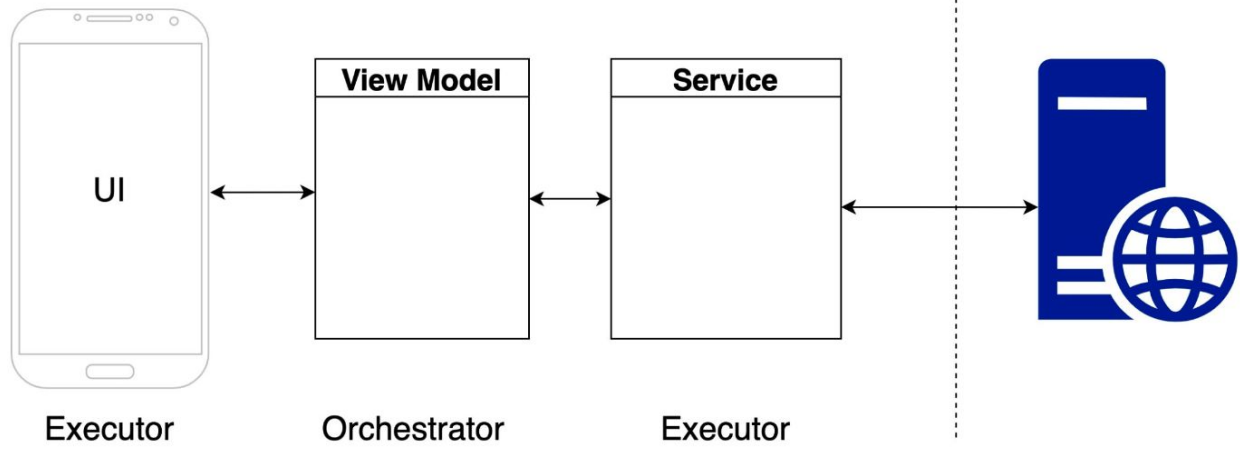
High Cohesion & Low coupling

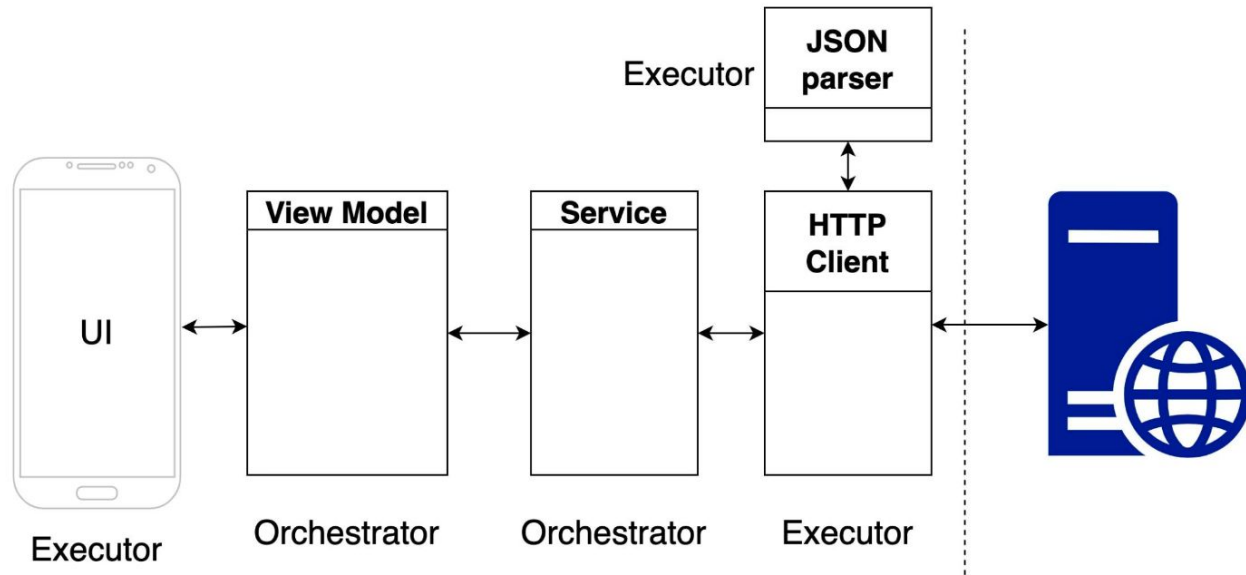
// Low coupling: Classes communicate through well-defined interfaces

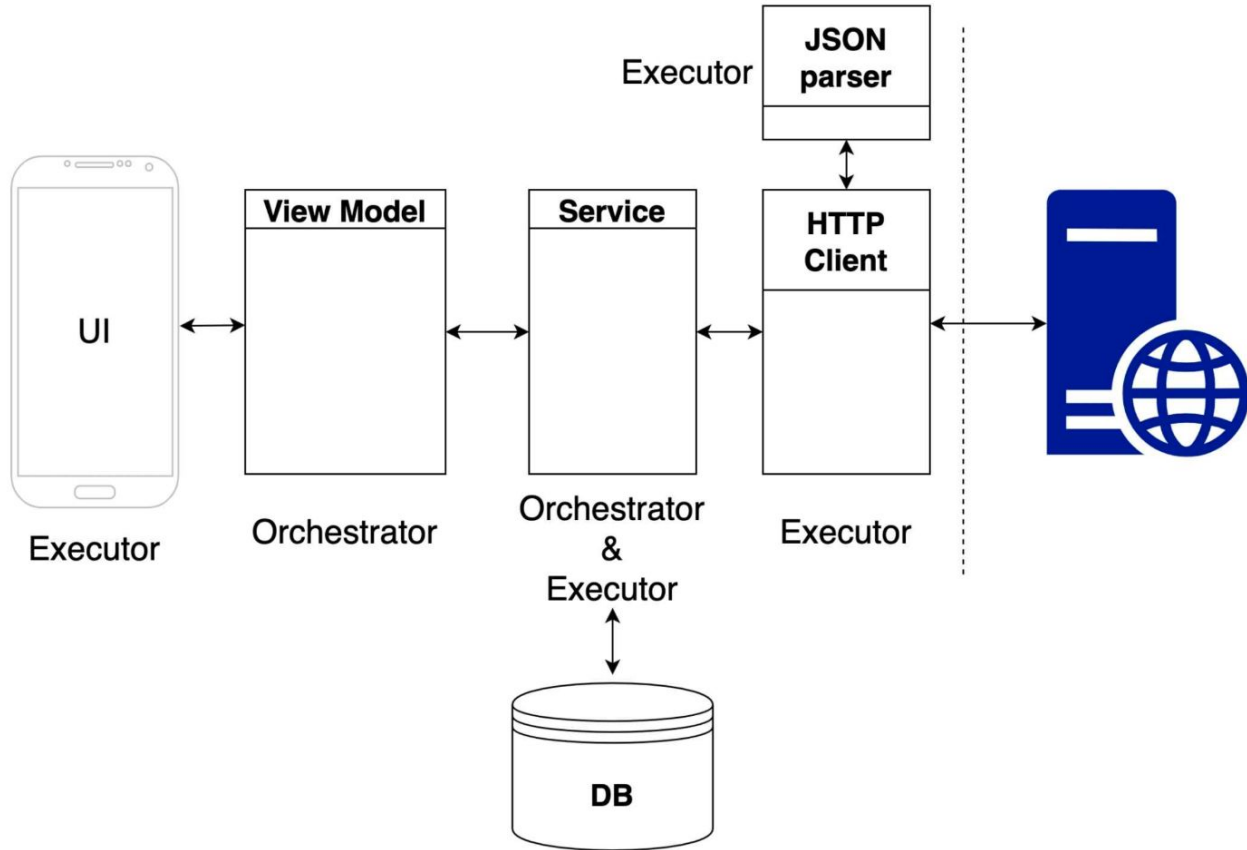
```
protocol UserProfileProtocol {  
    func getUserProfile() -> UserProfile?  
    func updateUserProfile(_ profile: UserProfile)  
}  
  
class UserProfileService: UserProfileProtocol {  
    func getUserProfile() -> UserProfile? {  
        return nil  
    }  
  
    func updateUserProfile(_ profile: UserProfile) {  
        // Update user profile  
    }  
}
```

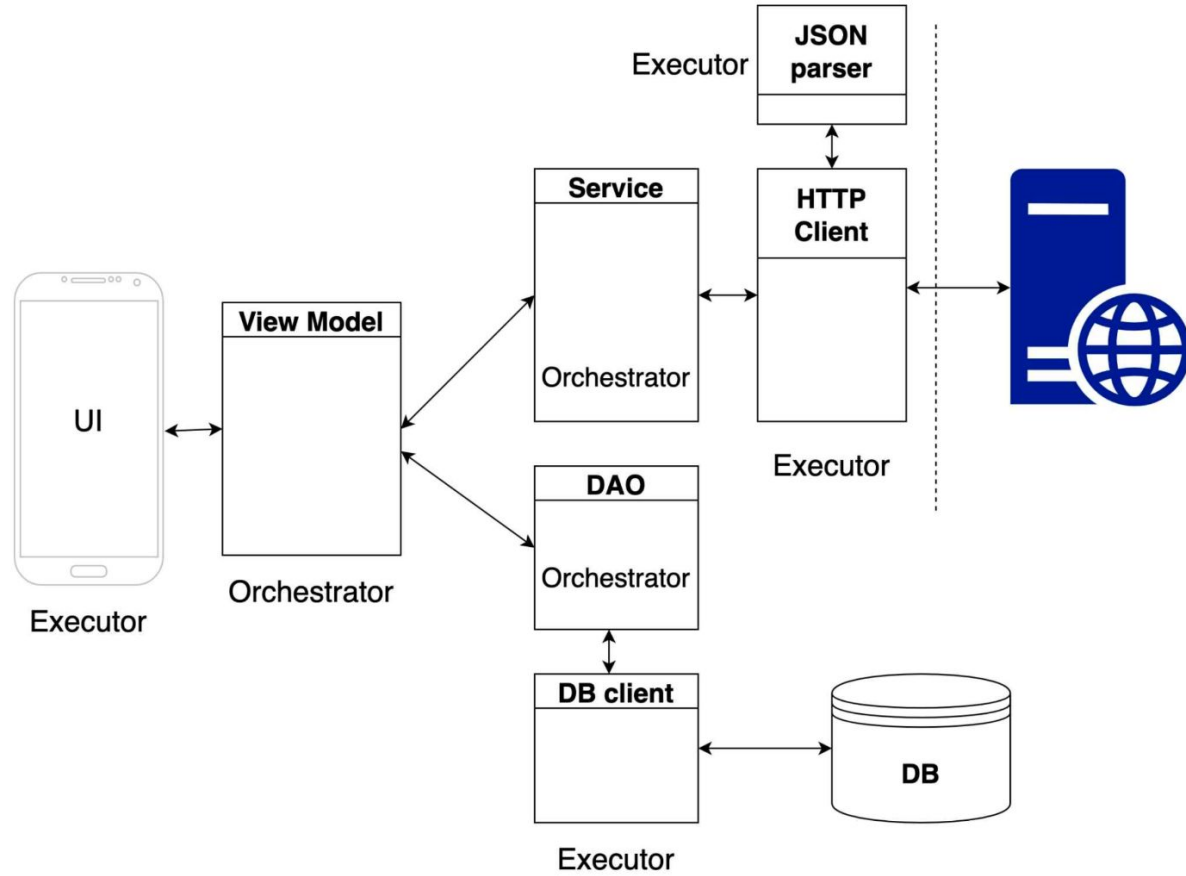


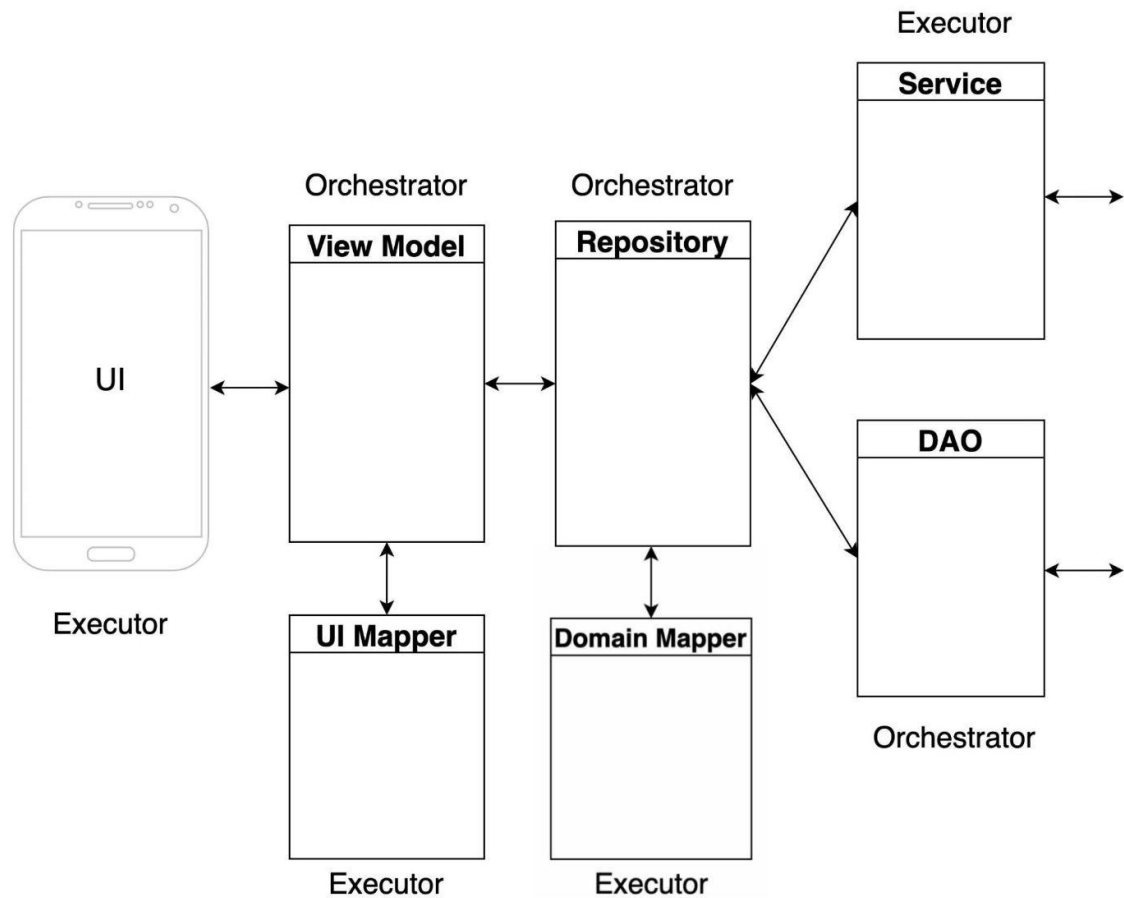
S.C.P







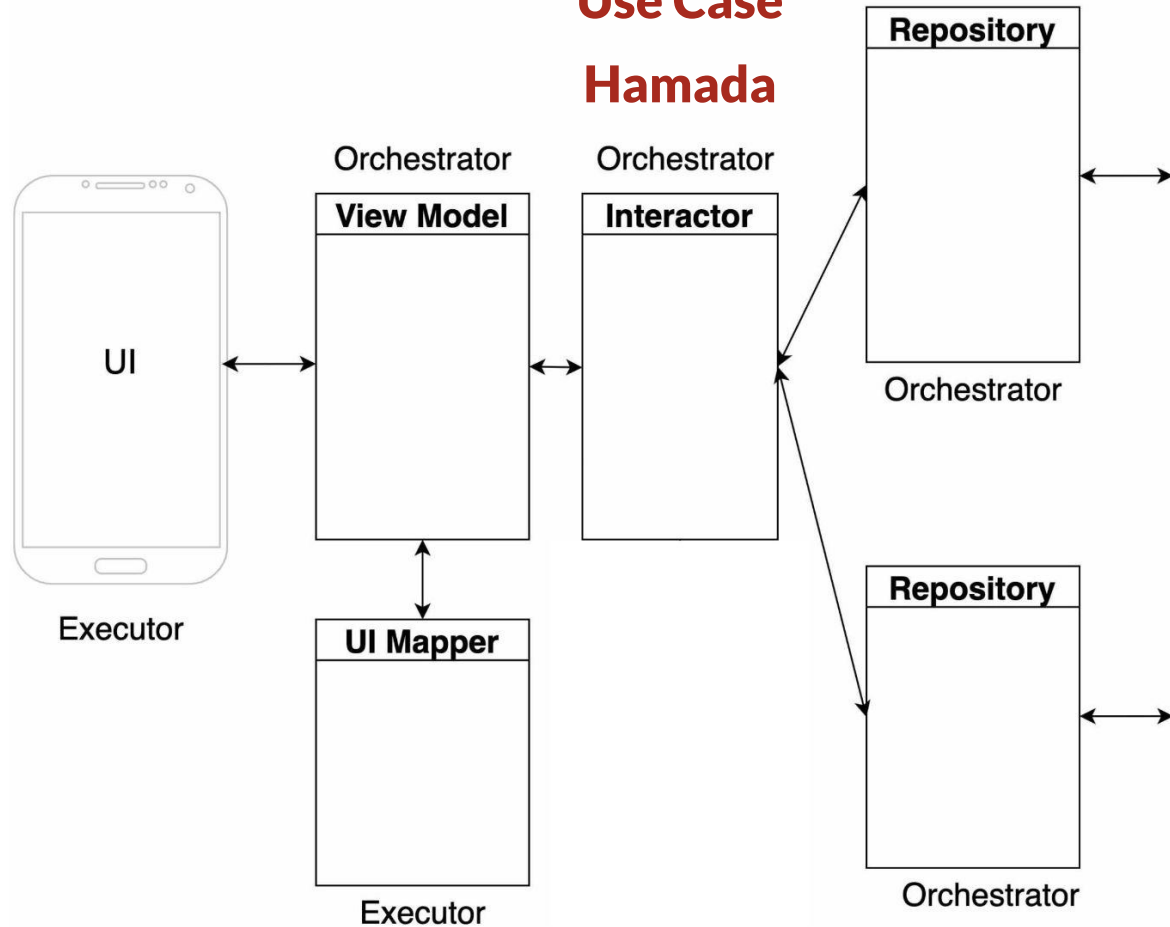




Interactor

Use Case

Hamada

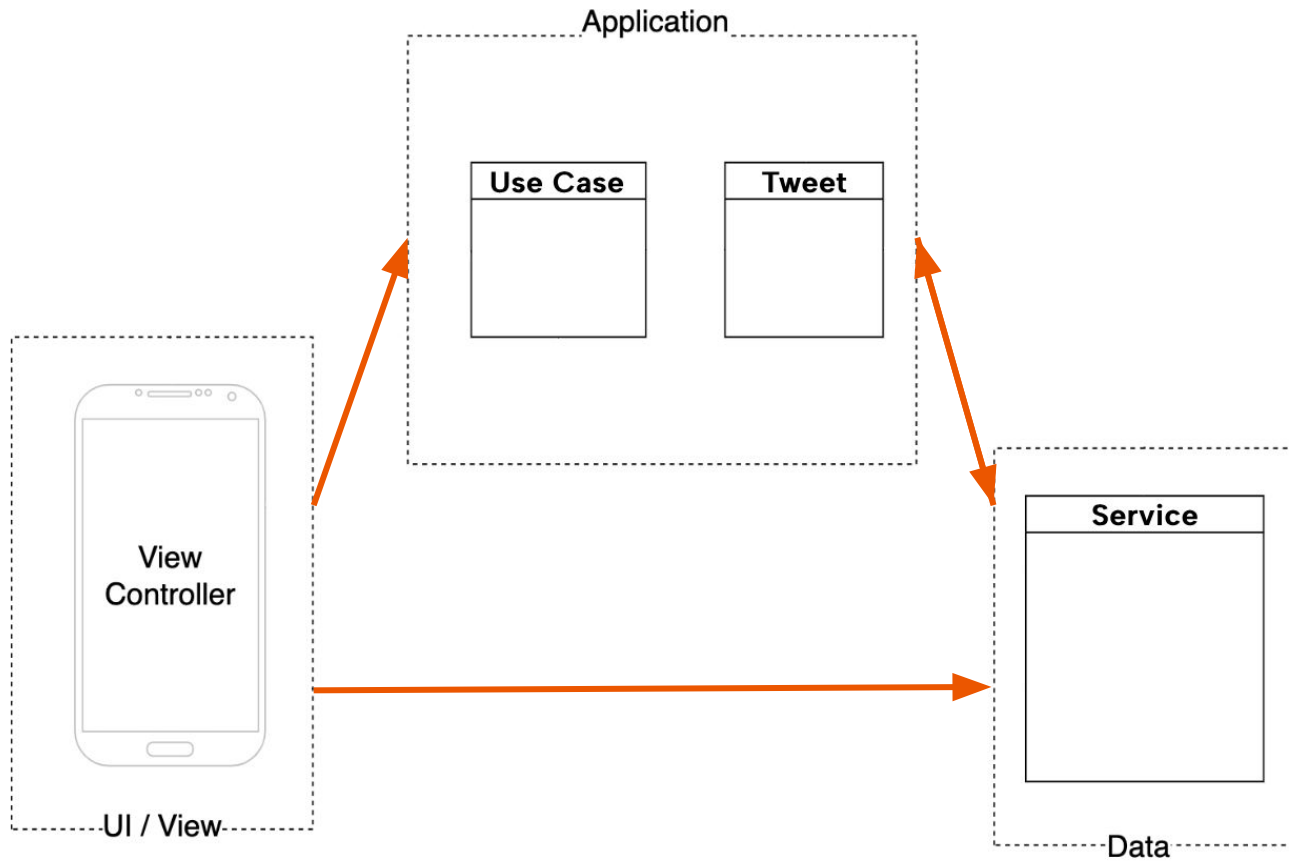


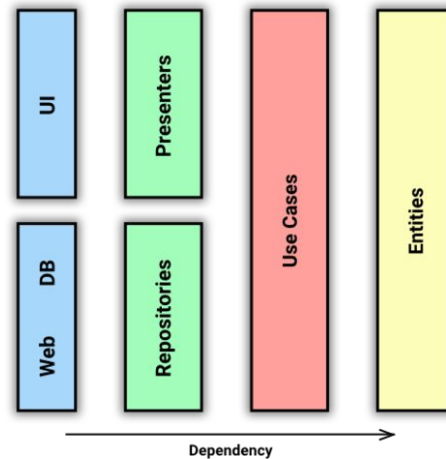
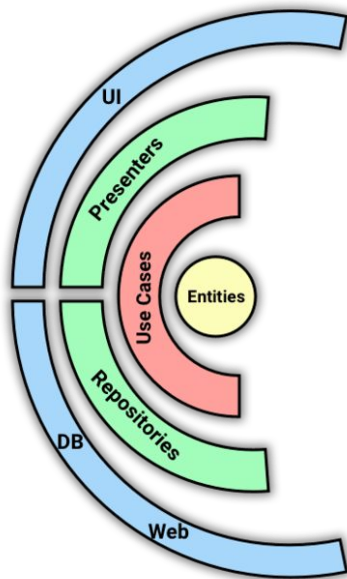
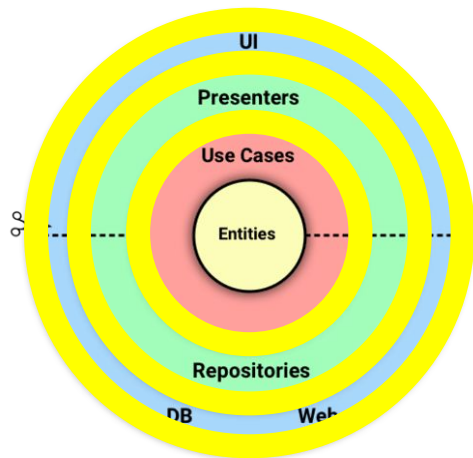


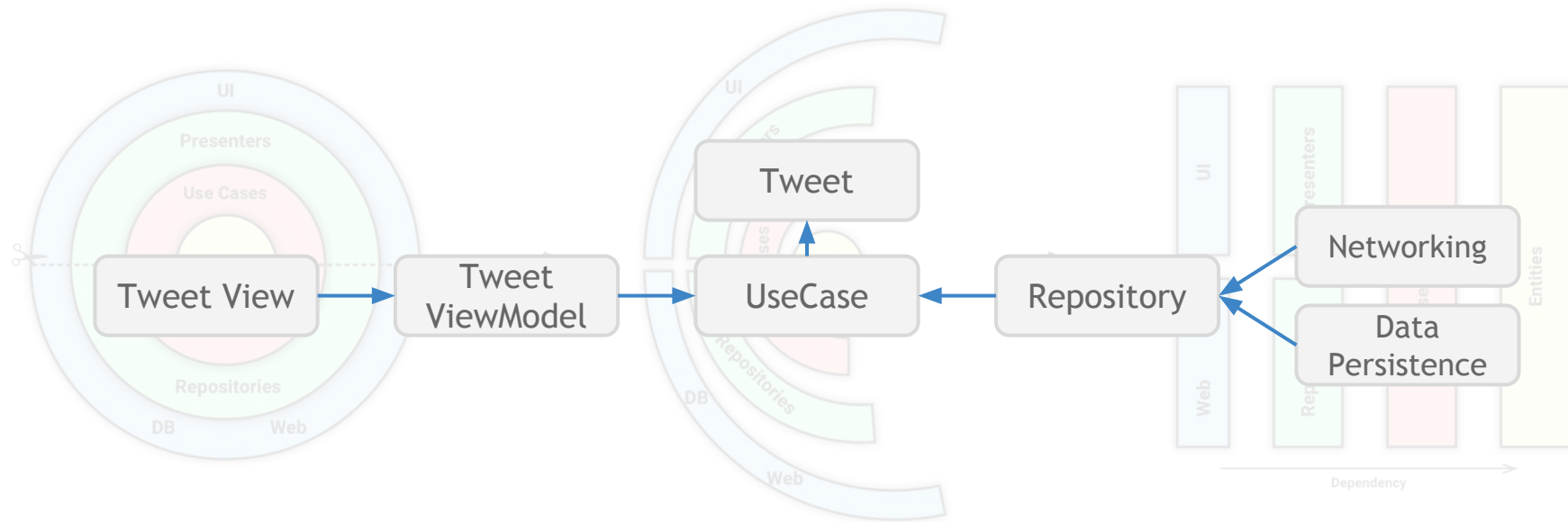
أنا بتكلم في حاجة تعيش العمر كله 😂



S.O.L.I.D









**Consistency
is the key.**

SRC2-6



Q&A

References

- The Clean Architecture - Robert C. Martin
- Clean Mobile Architecture - Petros Efthymiou
- Onion Architecture - Jeffrey Palermo

