Fastfood ordering and management System (FOMS)

FDAE Team 6
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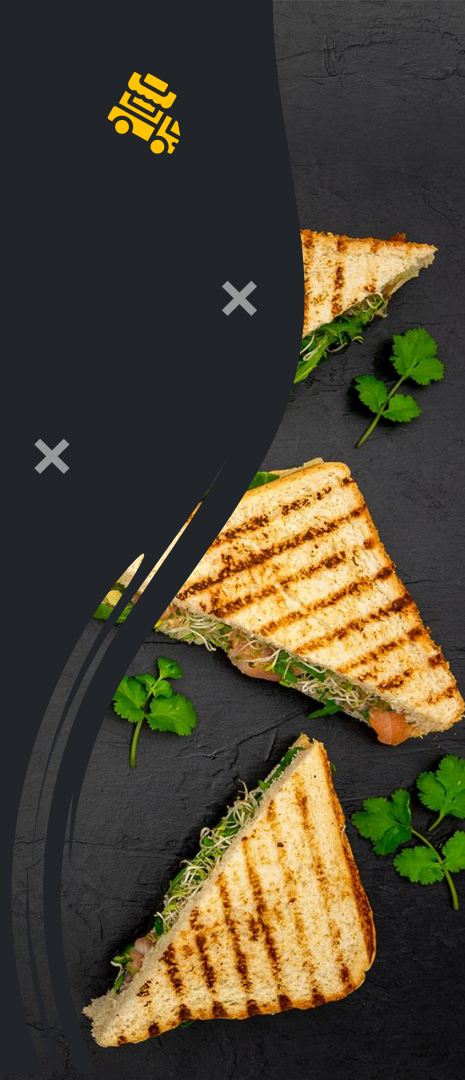
Design Considerations



Our Considerations & Approach

Reusability

Extensibility

Maintainability

Single Responsibility Principle (SRP)

- Ensures high cohesion
- Refrain from creating single ‘god’ classes
- More classes with different distinct responsibilities

Open-Closed Principle (OCP)

- Ensures extensibility
- Open for extension but closed for modification
- Future implementations
- E.g. <<PaymentMethod>> Interface

Liskov Substitution Principle (LSP)

- Ensures reliability of system
- Subclasses perform as their superclasses
- Modifications made in subclasses do not compromise existing functionality in superclasses
- E.g. Subclasses “CustomerSide” and “CustomiseDrink” and base class “CustomiseOrder”

Interface Segregation Principle (ISP)

- Ensures dependency on essential interfaces only
- Reduces code complexity, establishes reusability and maintainability

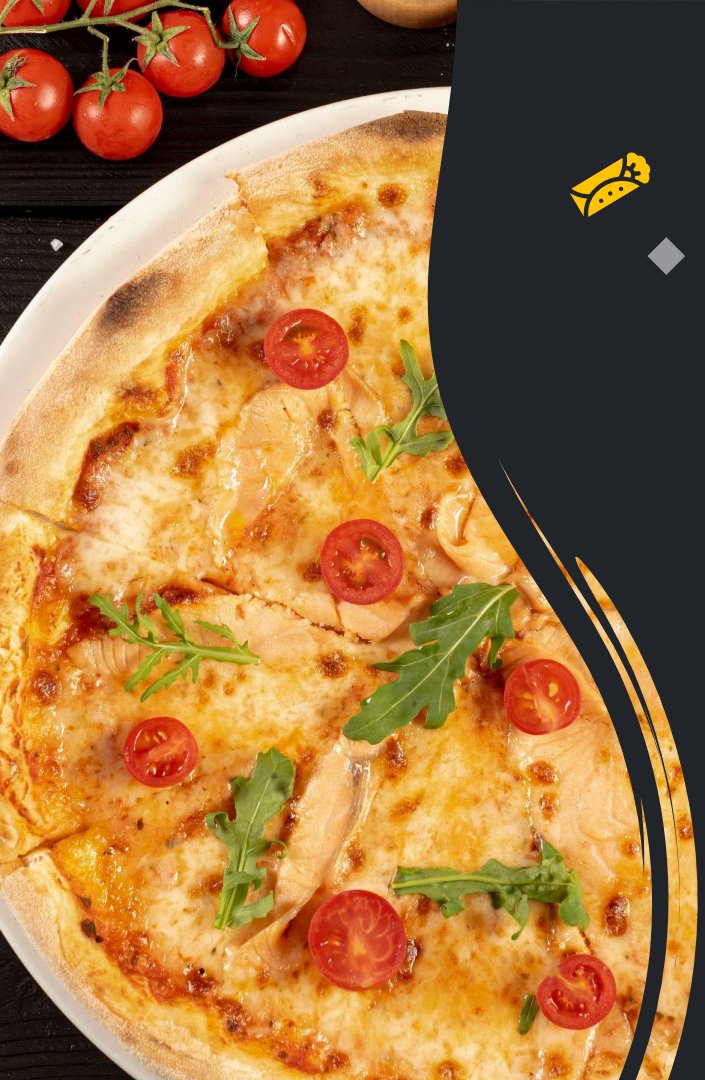
Dependency Injection Principle (DIP)

- Decouples higher level modules from lower level modules
- Increases the flexibility of the system
- Minimises impact on higher level modules when modifying lower level modules
- E.g. <<PaymentMethod>> interface, <<BranchInterface>>, <<OrderInterface>>

Walkthrough

Reflection

Looking back...



Thank You !

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