SADP

Assignment No-4

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Aim: To implement a Structural/Behavioral design Pattern.

Object : Implement a Structural/Behavioral design

Problem Statement: Bakery factory system

Theory

Benefits of structural design Pattern

- Increased reusability
- Enhanced flexibility
- Separating implementation from interface
- Reducing complexity by providing classes
- Simple interface to a system that are easier for client program to understand.

Benifit of behavioral design Pattern

These Pattern help us to reduce complexity of code and duplication of code, reduced coupling and enable better support by other and feasibility in the future.

Type of structural design Pattern

- Adapter Pattern
- Bridge Pattern
- Composite Pattern
- Decorator Pattern
- Facade Pattern
- Flyweight Pattern

Type of Behavioural Design Pattern

- Chain of Responsibility Pattern
- Command pattern
- Interpreter Pattern
- Iterator Pattern
- Mediator Pattern
- Observer Pattern

Platform : Draw.io → class Diagram
Python → Code

I/P : Them to purchase
O/P : Price and delivery of the item

FAQ

Q) What are the elements of a design pattern?

Ans The element of desig pattern are

- Pattern name ineqate vocabulary of design
- Problem : intent context when to apply
- Solution : like structure classes
- Consequence : result solely

2) Compare Iterator and Adapter design pattern?

Ans Adaptor

To work the interface a class into another interface client expect, Adapter let class work together that couldn't otherwise because of incomptible interface.

Iterator

Provide a way to access the elements of an aggregate sequentially without exposing it

Underlying representation.