

Design Pattern

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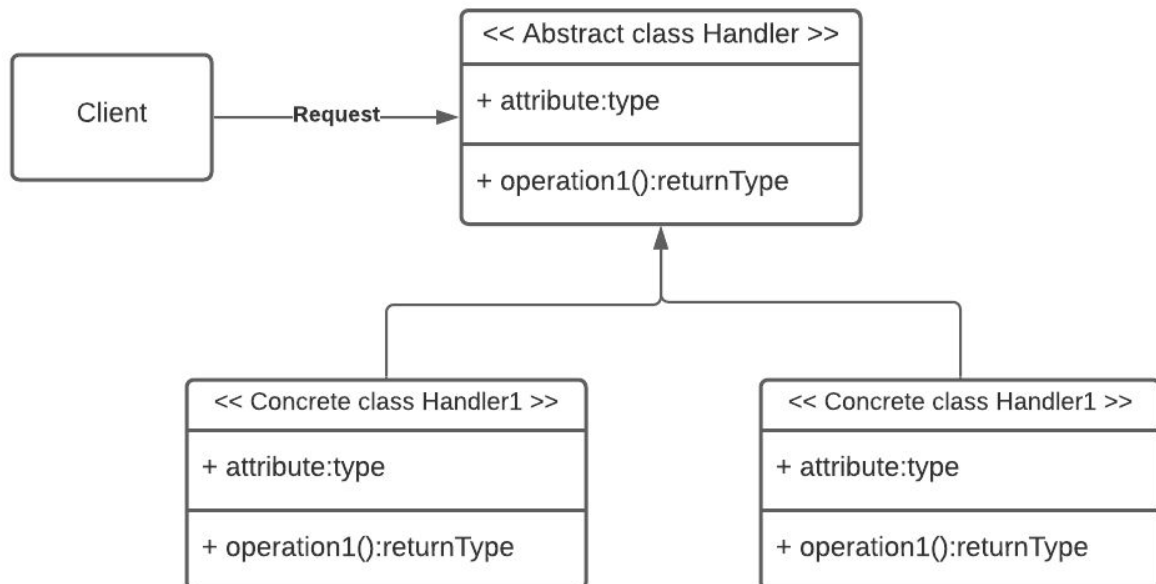
Task:

1. Class diagram and description of Chain of responsibilities design Pattern
2. Example(Java Classes) for Prototype(Creational) or Flyweight(Structural)

Chain of Responsibilities:

- It is a pattern where a group of objects processes the request from the command object.
- Each object in the chain can either process requests or pass to other objects in the chain.

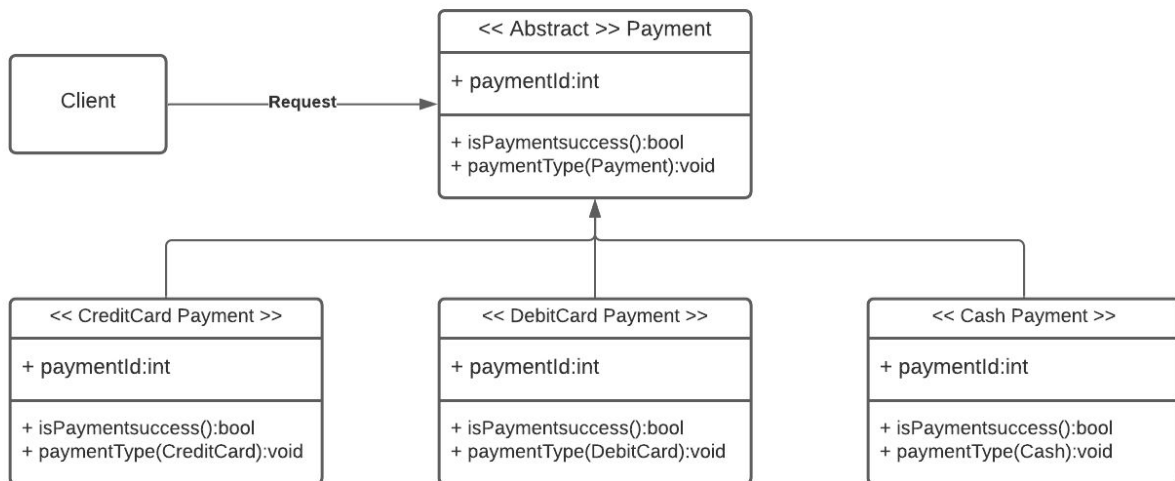
Class Diagram:



Example:

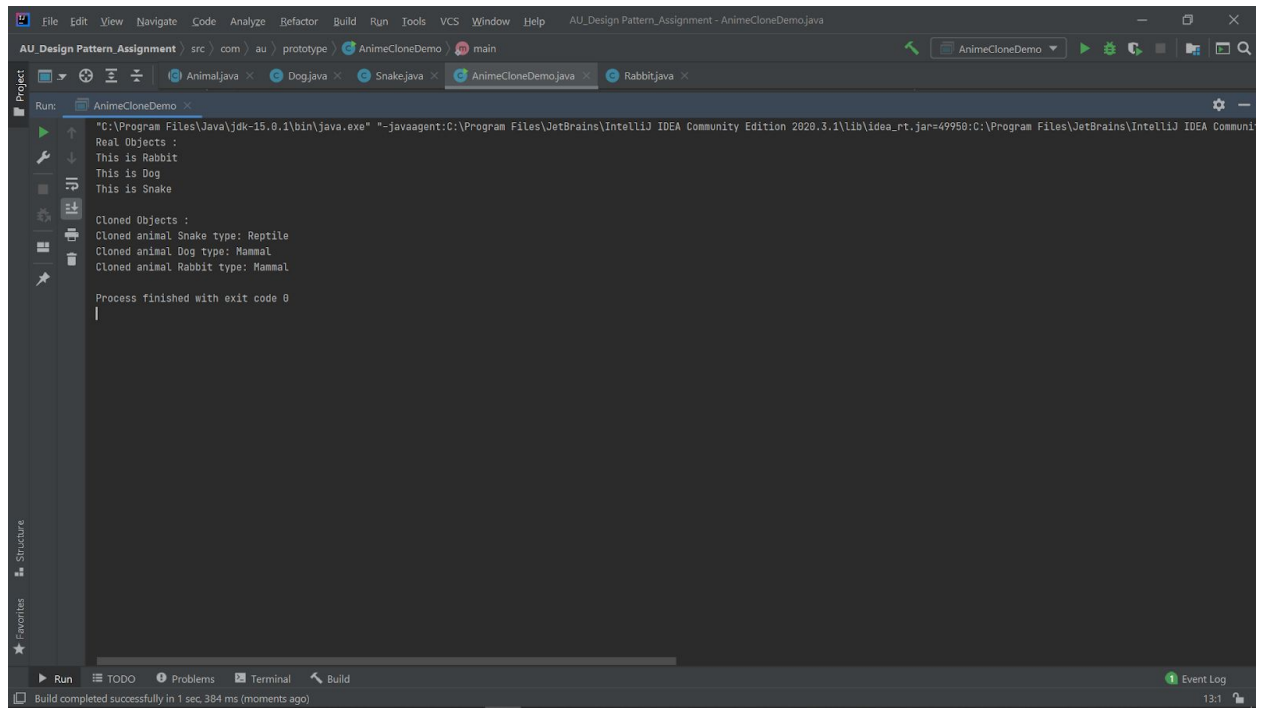
- In a shopping or order management system, the payment mode has different sections.
- Request execute payment method
- Check for credit card payment, if fails move to next object
- Check for debit card payment, if fails move to next object
- Check for cash payment, if pass payment is successful.

Class Diagram:



Prototype Design Pattern:

- It is one of the creational patterns.
- It says create the new object by cloning already available object



Note: Java code attached in another folder.