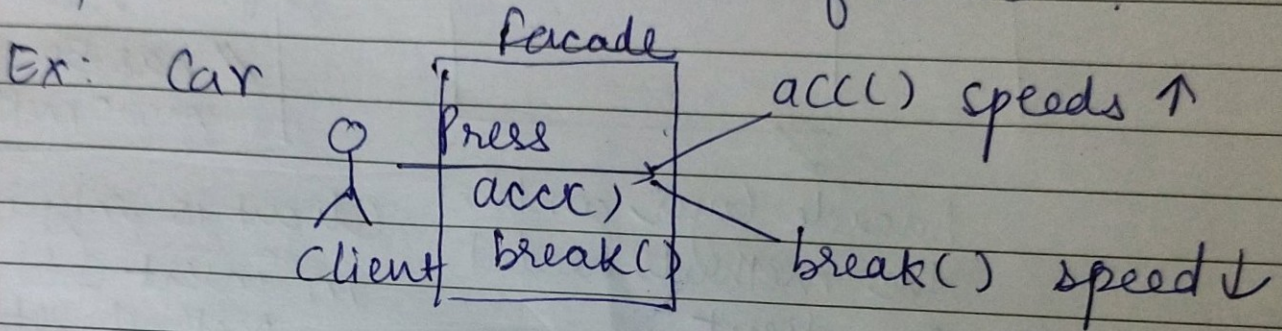


Facade Design Pattern

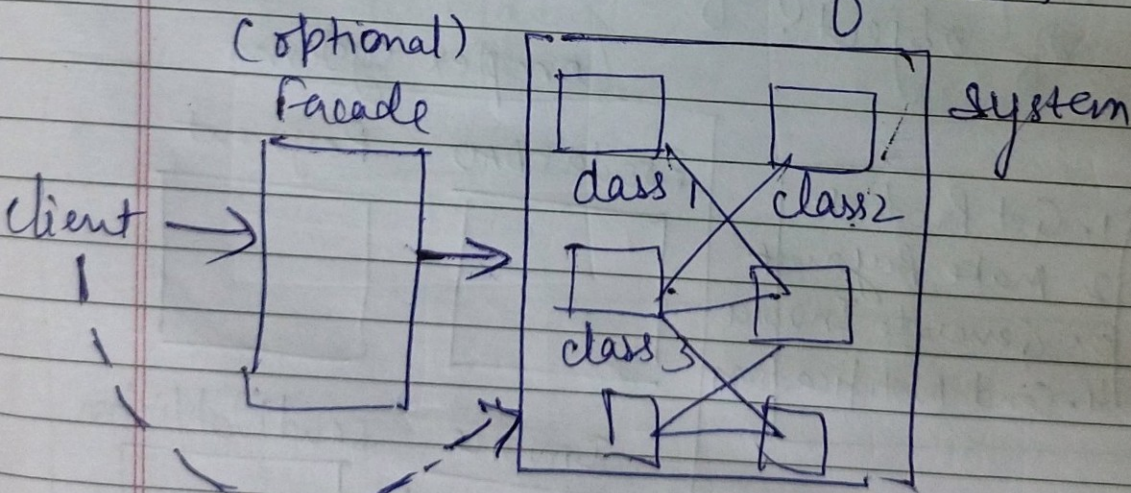
- Simple
- widely used.

● Real World UseCases

Used :- When we have to hide the system complexity from user then we use facade.



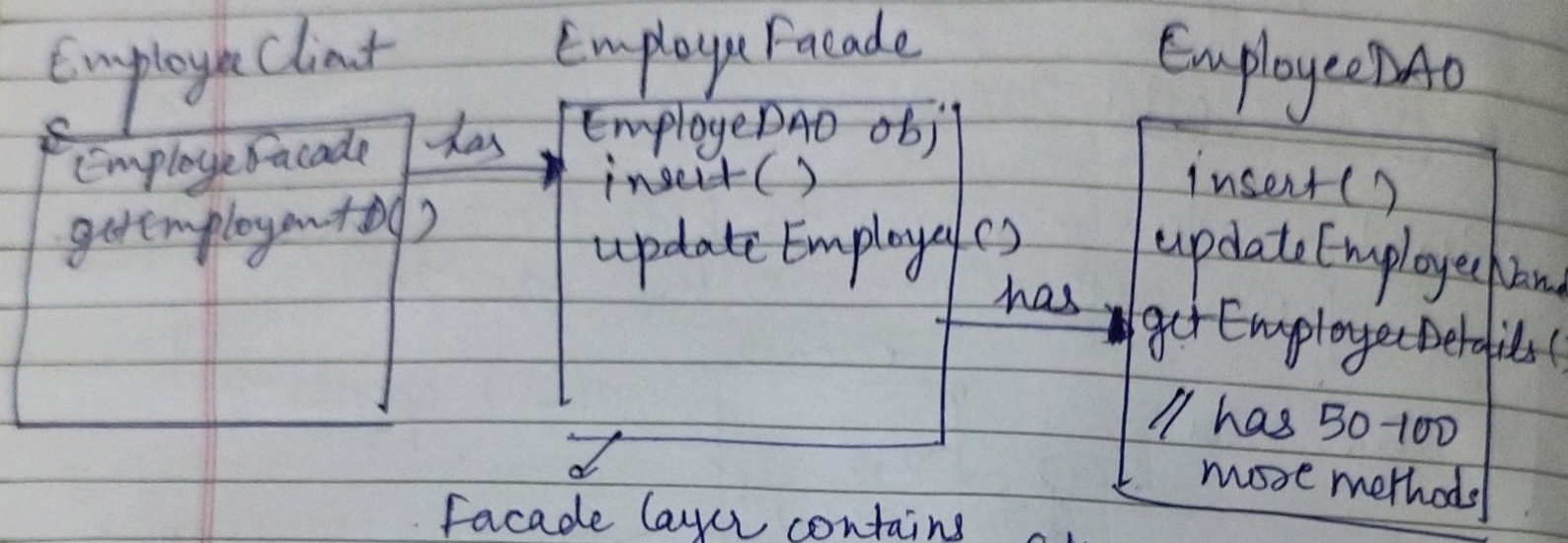
Because as a user only know the functionality but don't know the complexity. Behind the acceleration and break function.



It's a client choice either to use facade or to use the classes directly.

Ex 2: DAO (Data Access Object)

Scenario 1:- Use Facade when you have to expose only certain methods to the client.



Facade layer contains the methods needed by client
↓

Facade takes the responsibility of creation of object.

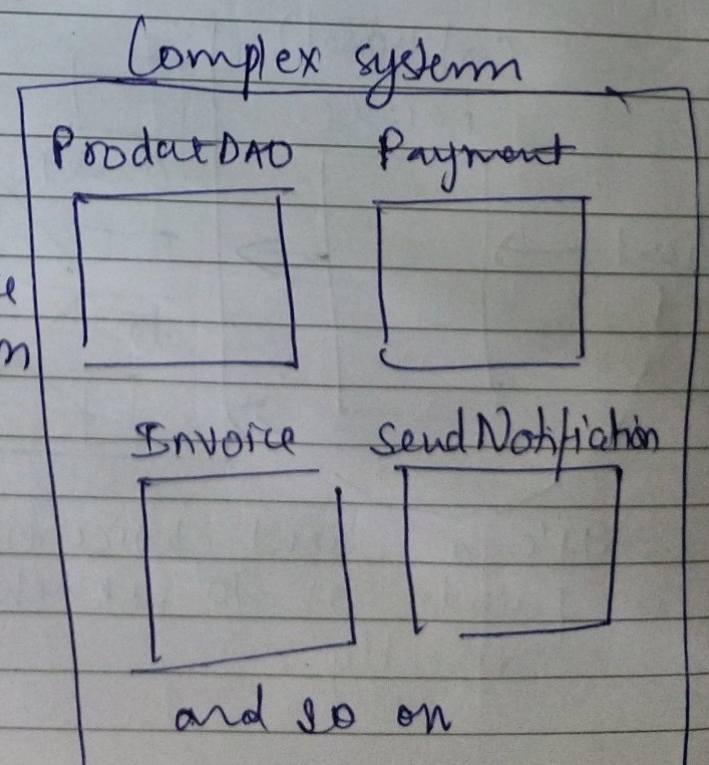
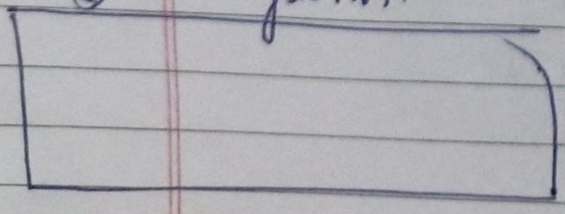
Client is only interested in insert and update method let say.

Scenario 2:-

Client → order

1. Get Product
2. Make Payment
3. Generate Invoice
4. Send Notification

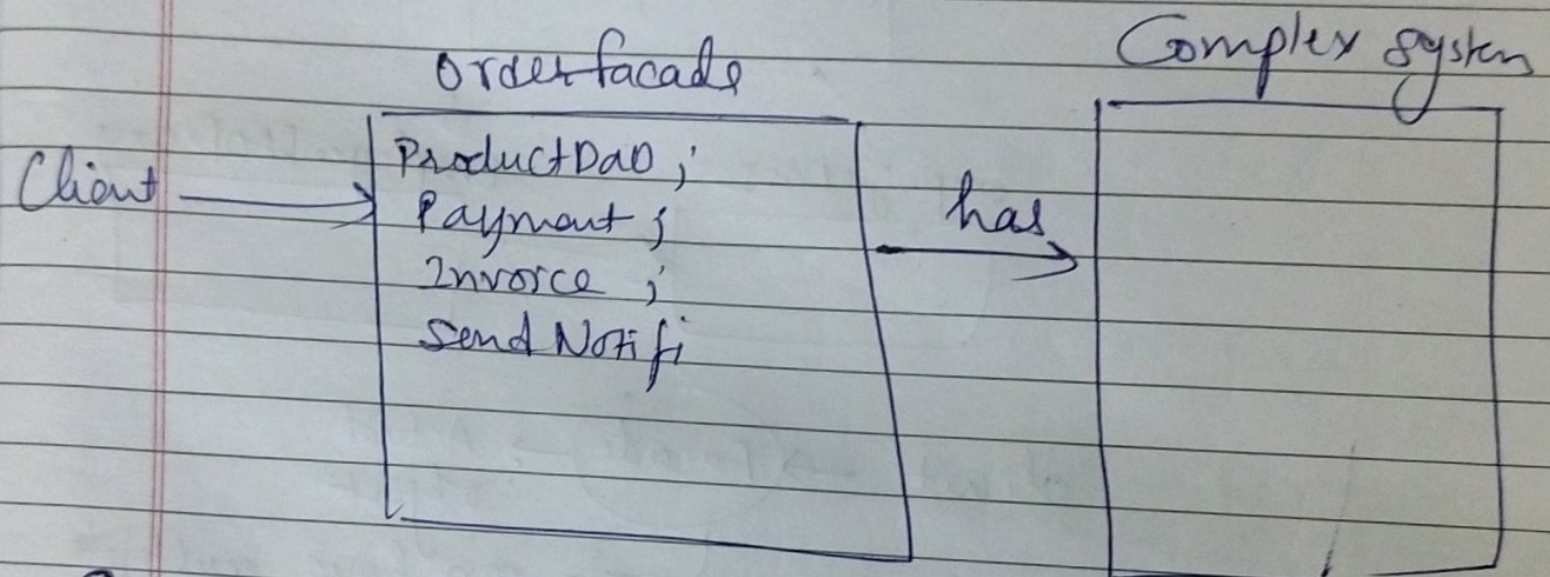
Subsystem



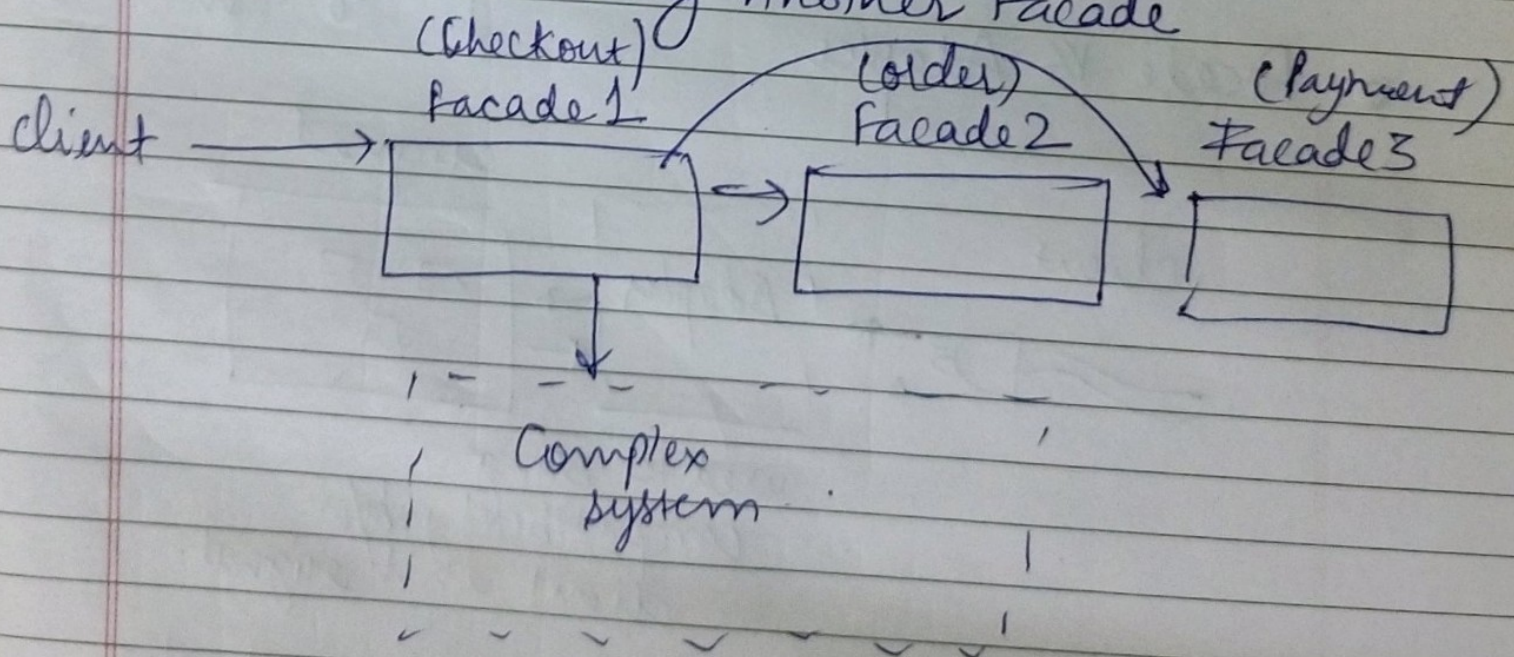
Problem : Any changes in the logic of these classes impacts client.

Ex) If the logic of order creation changes then it will affect client (New step Added)

Solution : Bringing a facade Layer.

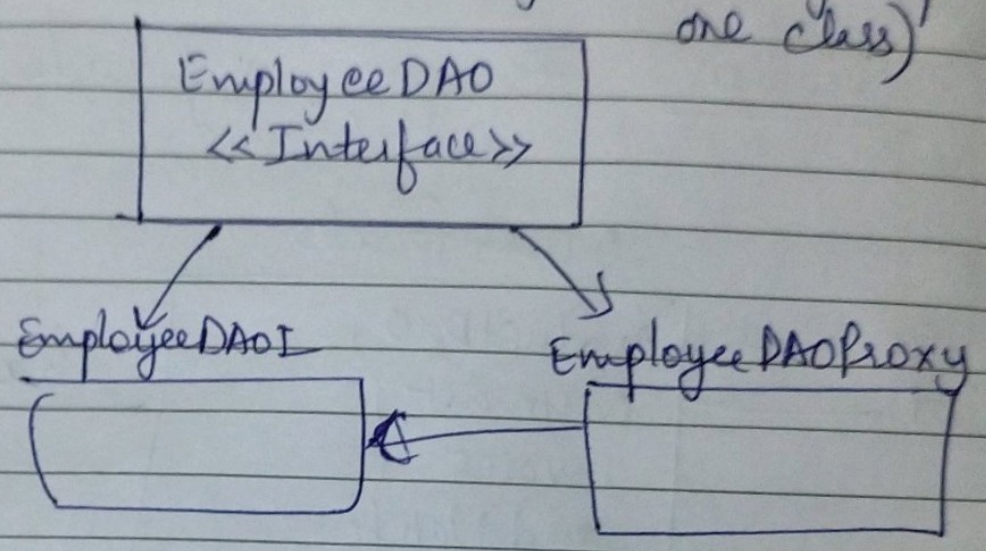


Scenario : Facade Using Another Facade



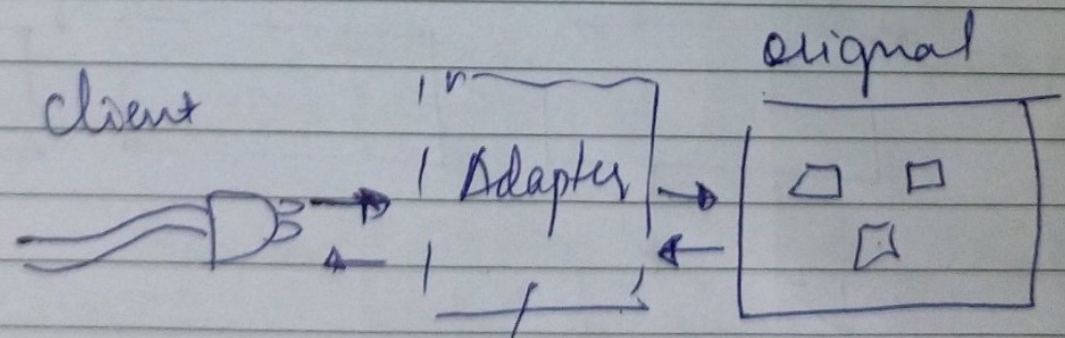
● Facade VS Proxy

Proxy → client → Proxy → Actual object
 Proxy is same as object type
 (Take cases of only a particular one class)



client → Facade → Actual object
 It can have multiple object of different type

● Facade VS Adapter



→ But Facade is used to hide the complexities