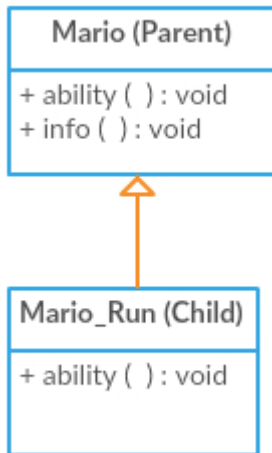
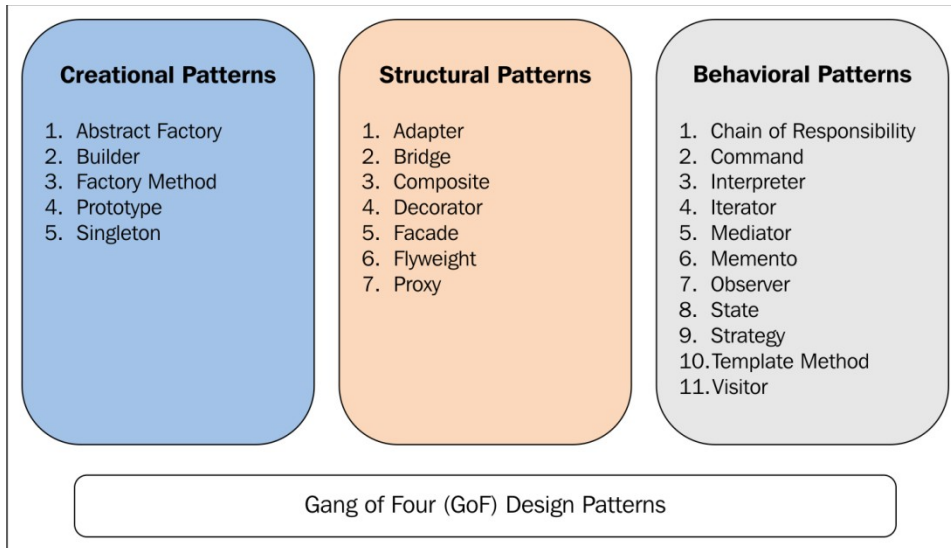
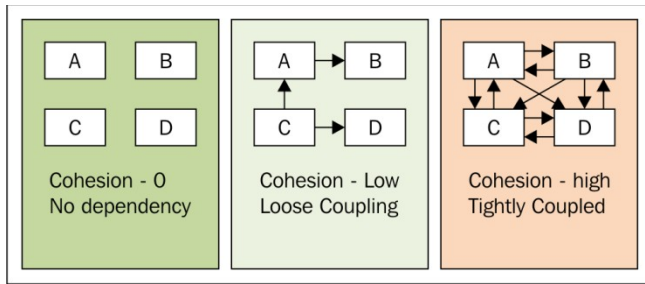
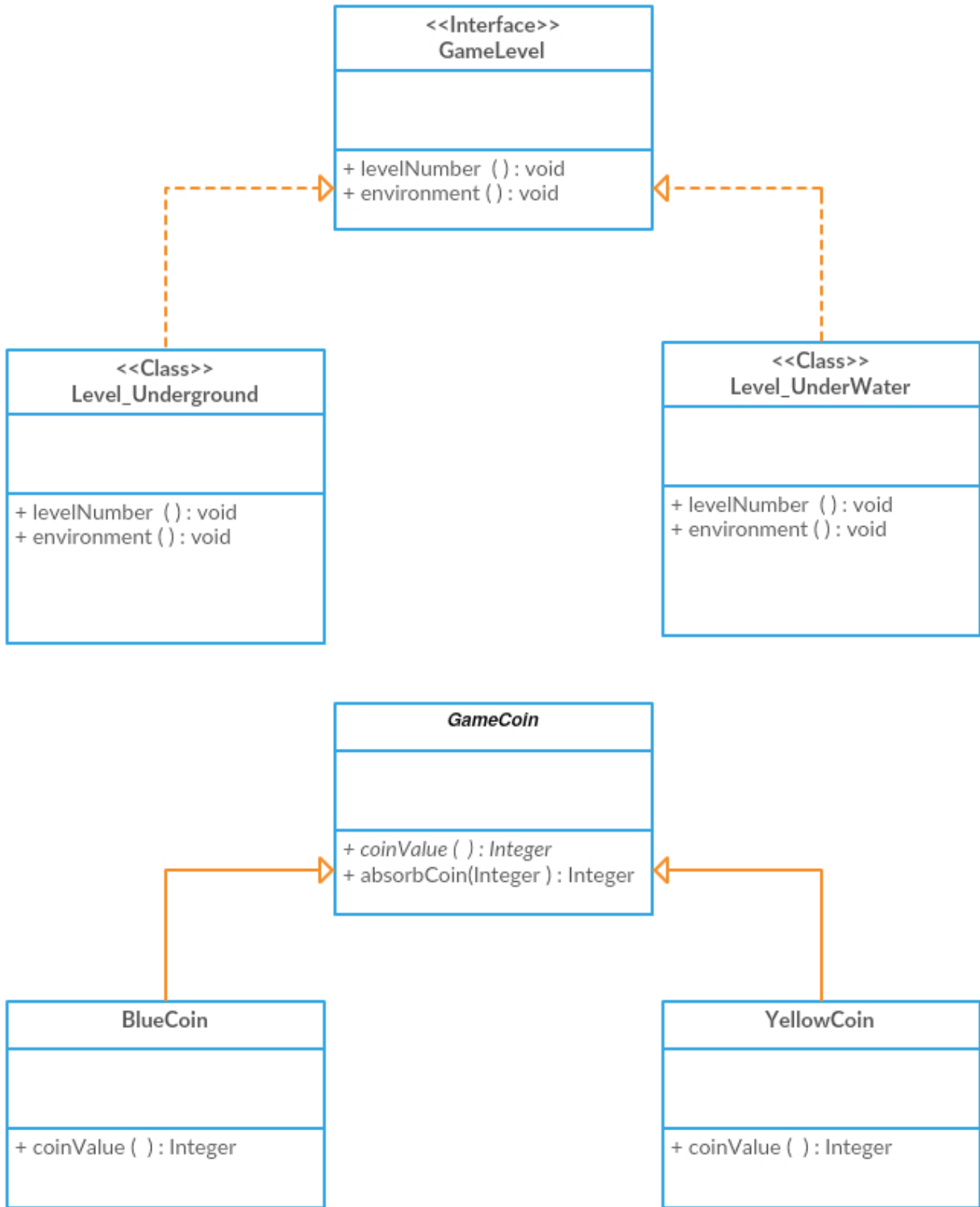
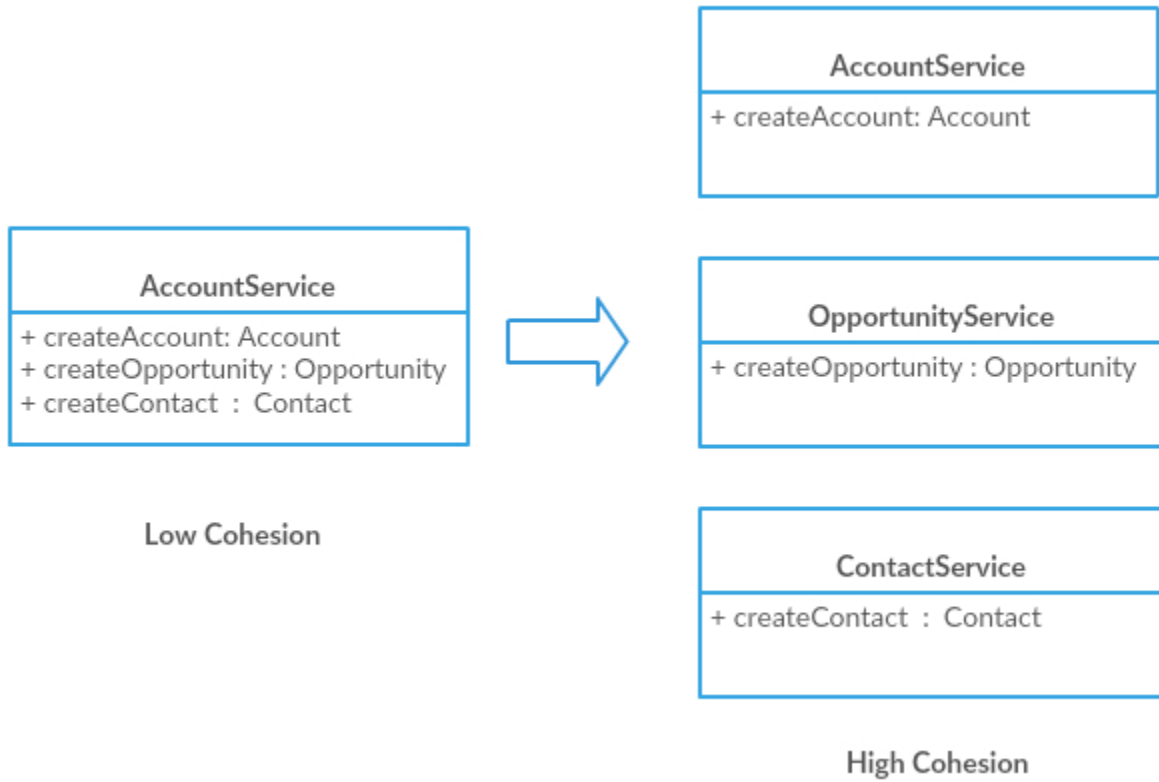
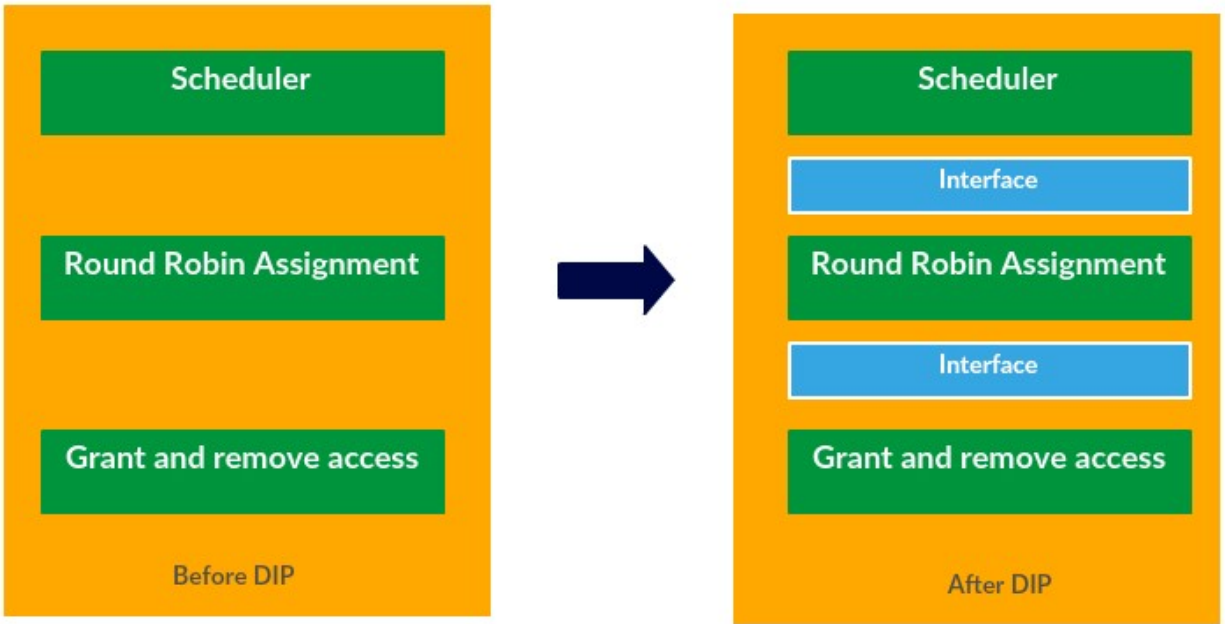


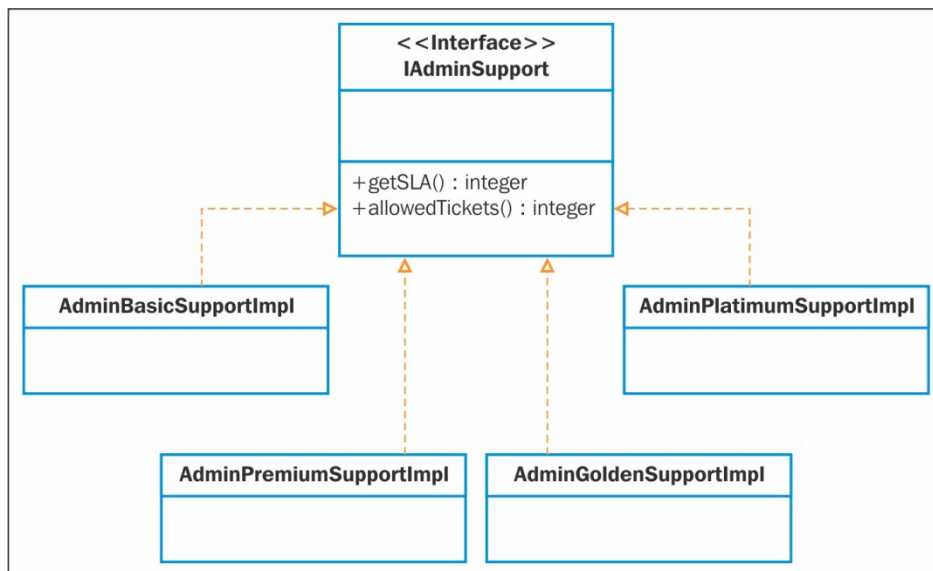
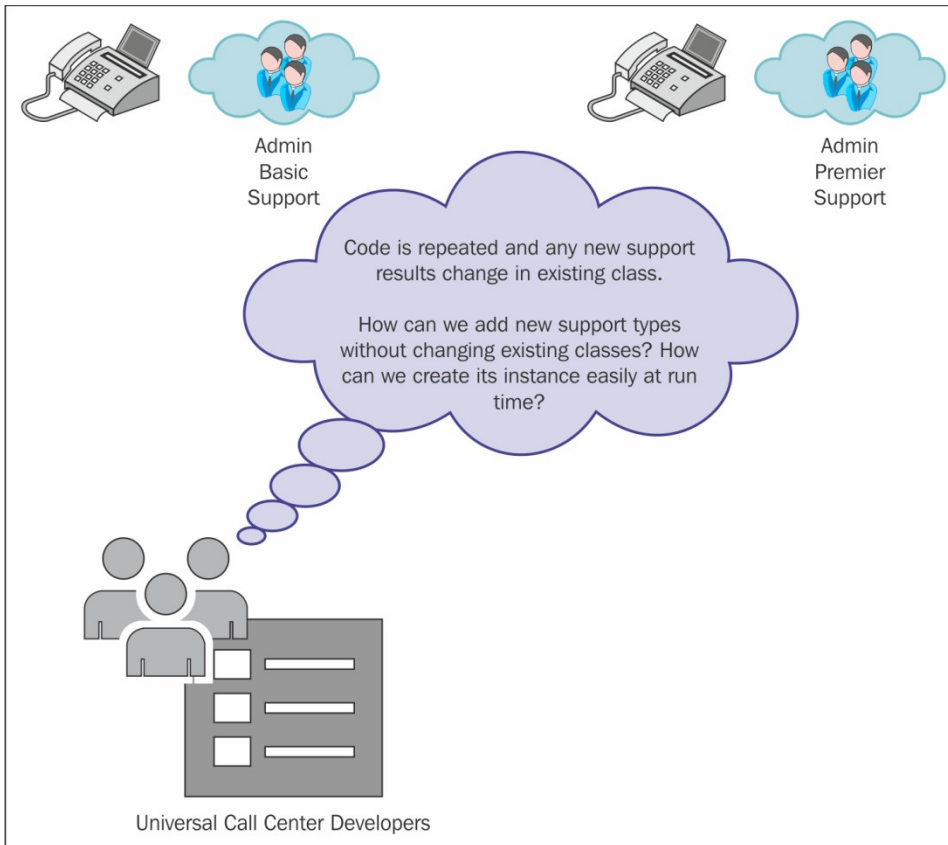
Chapter 1: An Introduction to Apex Design Pattern

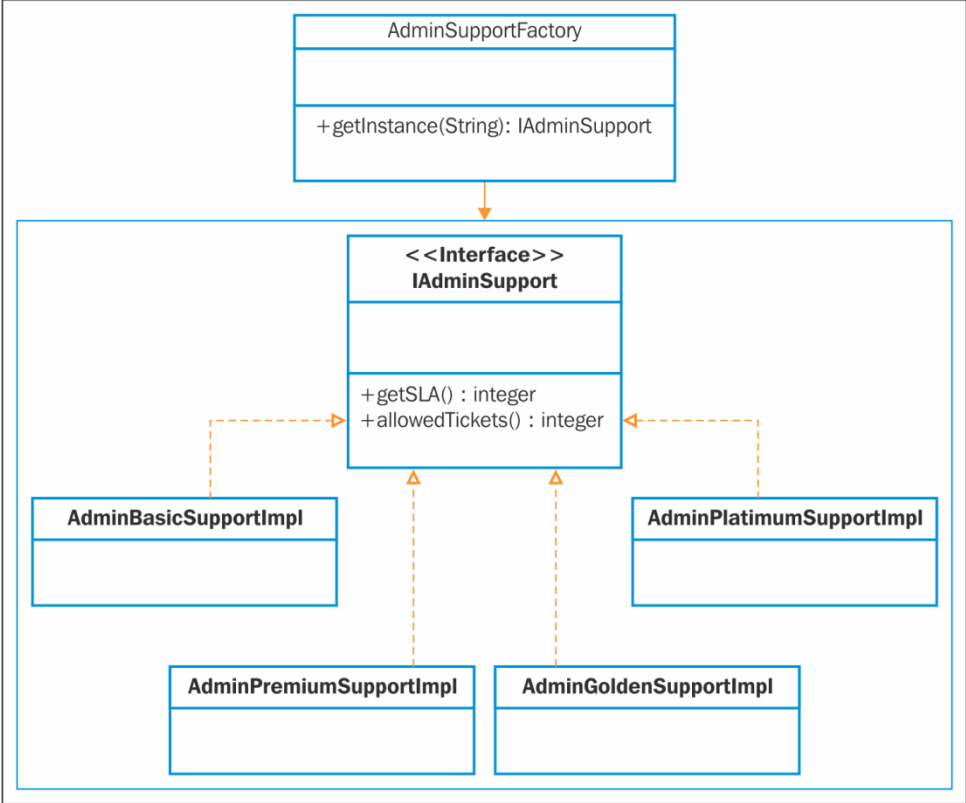


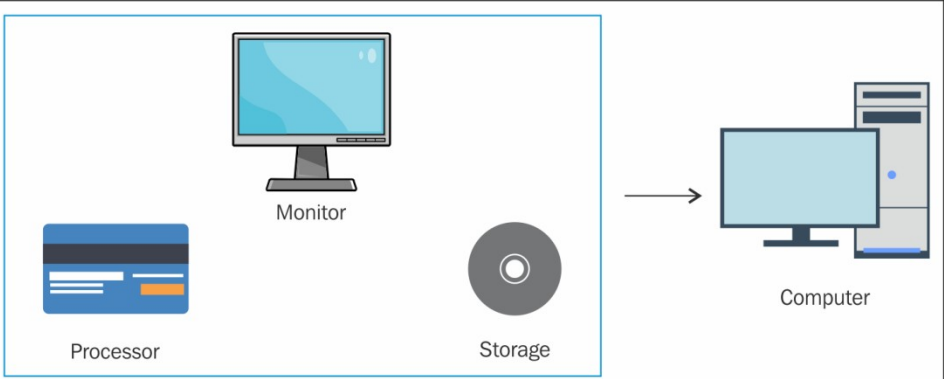




Chapter 2: Creational Patterns



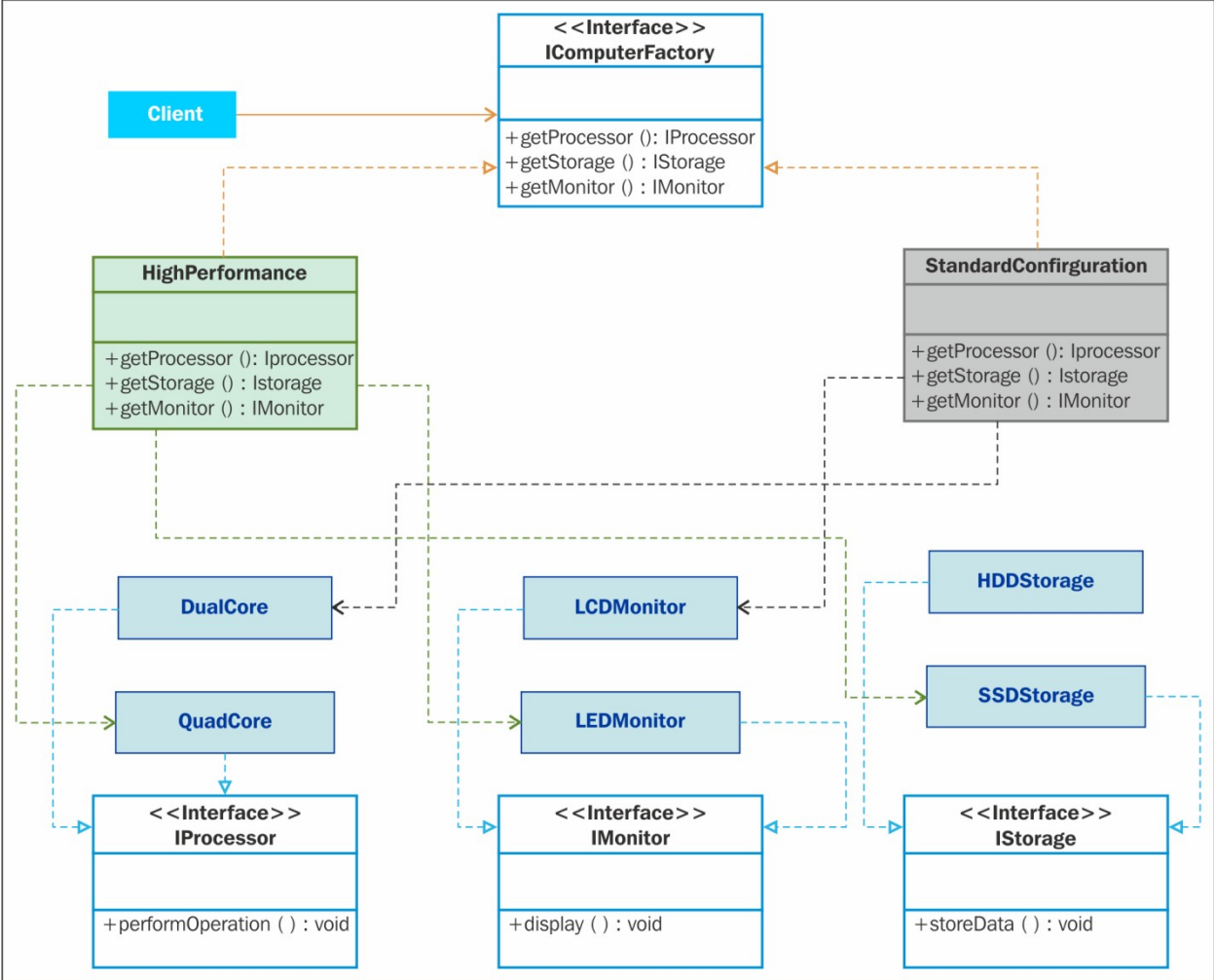


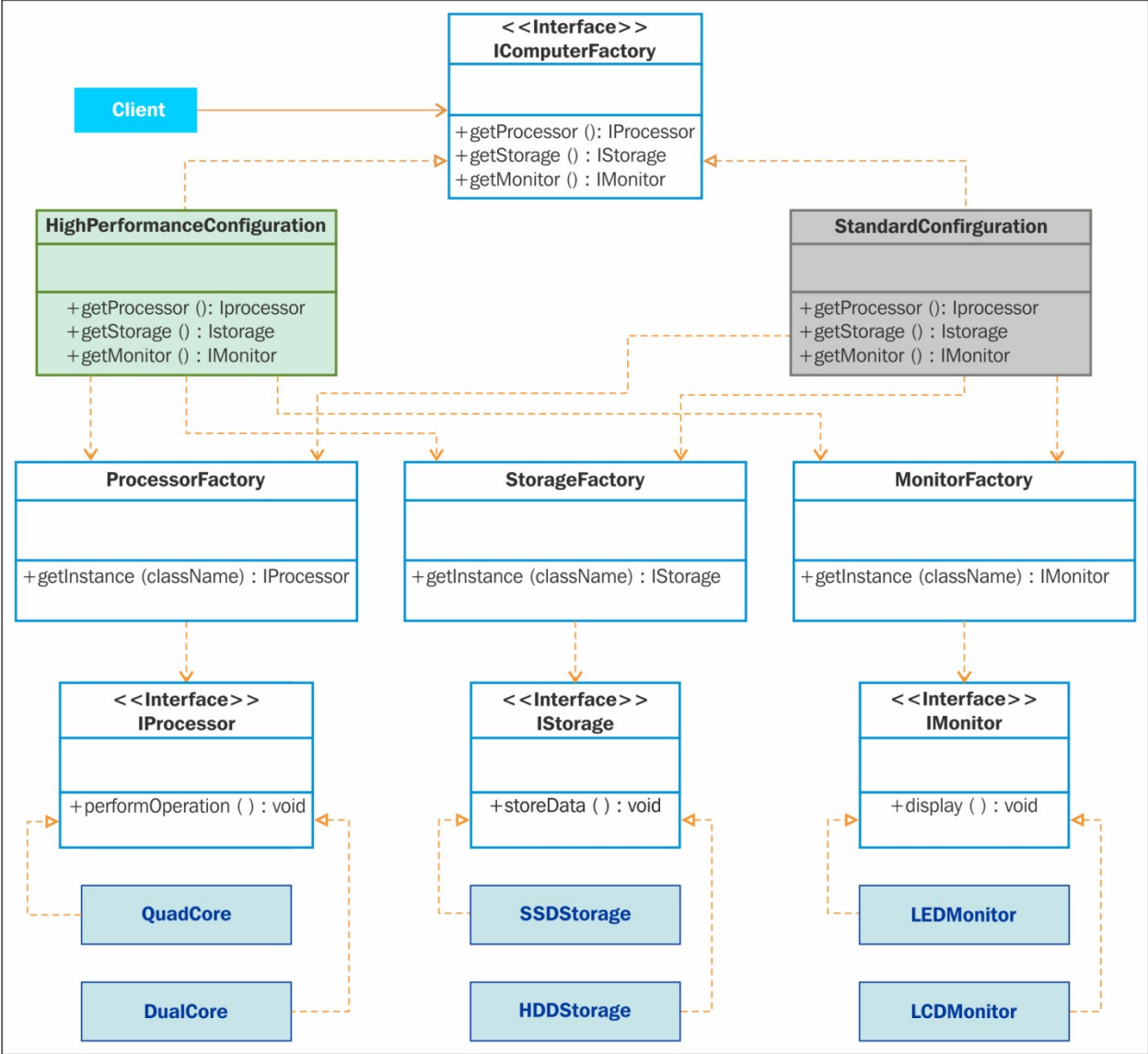


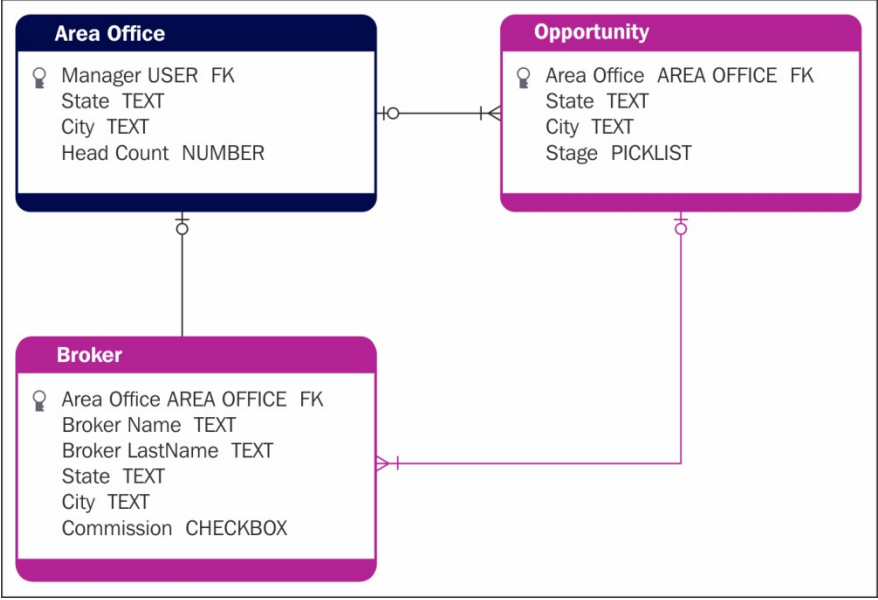
Factory Method Pattern can only return one type of Concrete Class.
I have to create Concrete Class of "Computer" for Call center agent but they may need different configurations.
Computer depends on other three Classes like Monitor, Processor and Storage.
There are "n" number of combinations. How can I combine Monitor, Processor and Storage together to give Computer as Output?

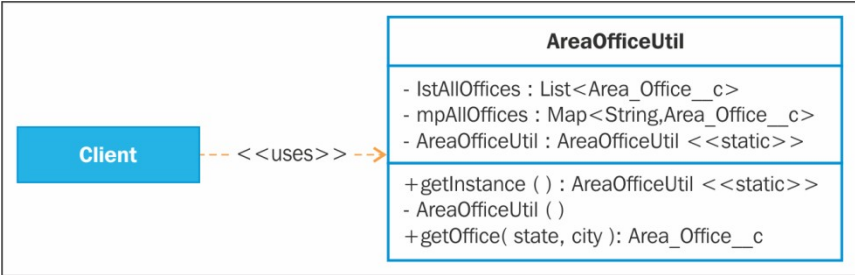
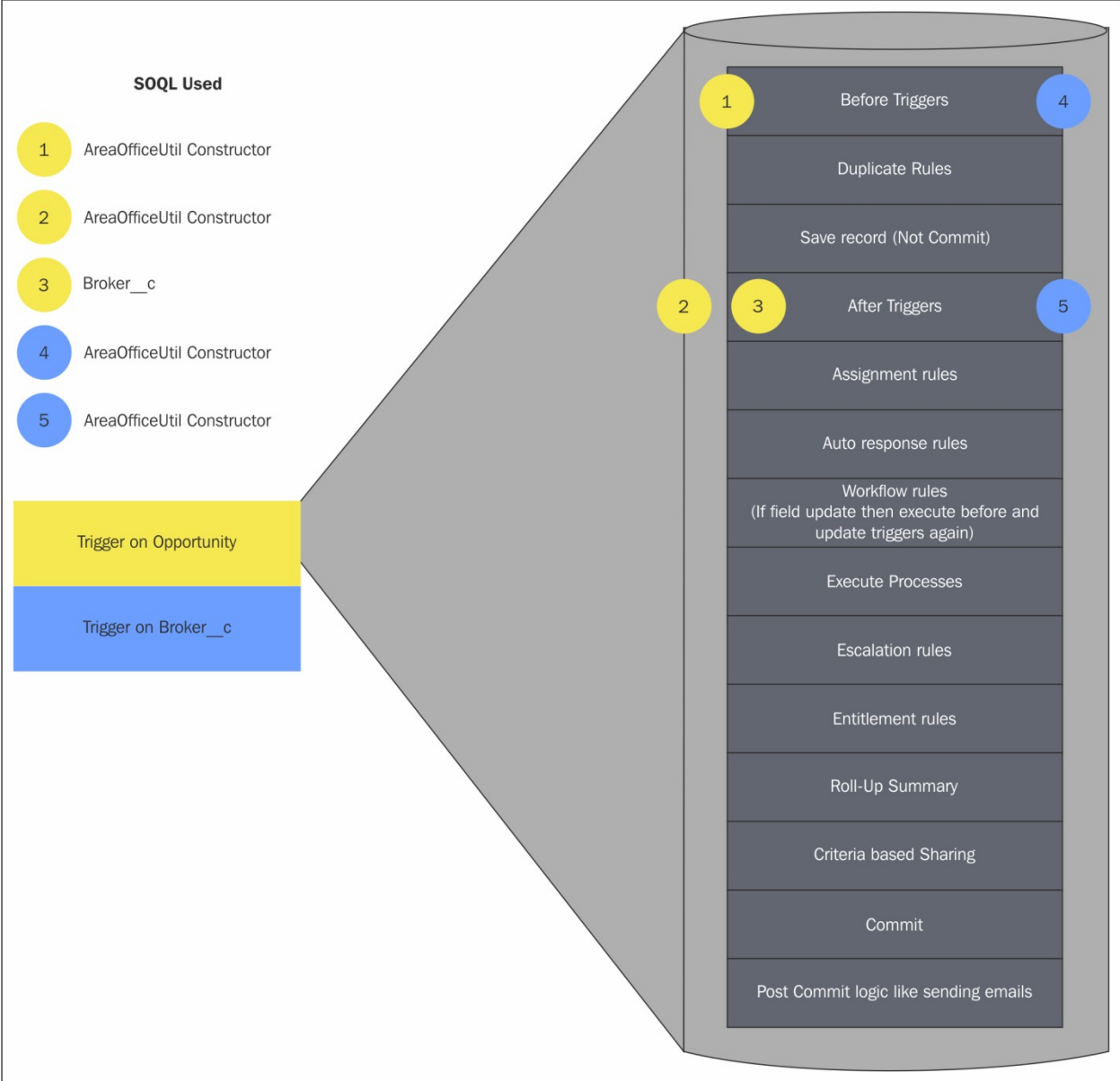


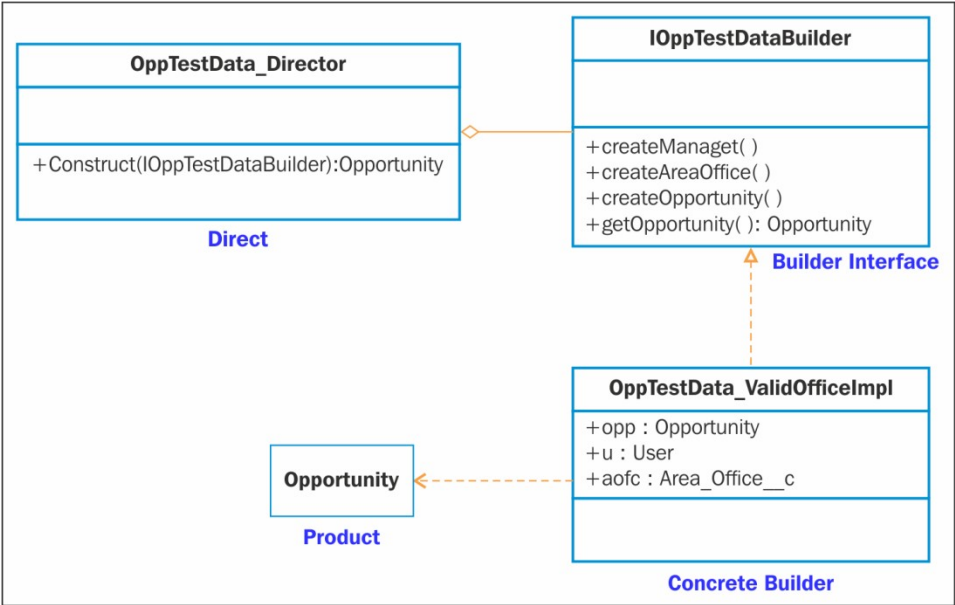
Developers

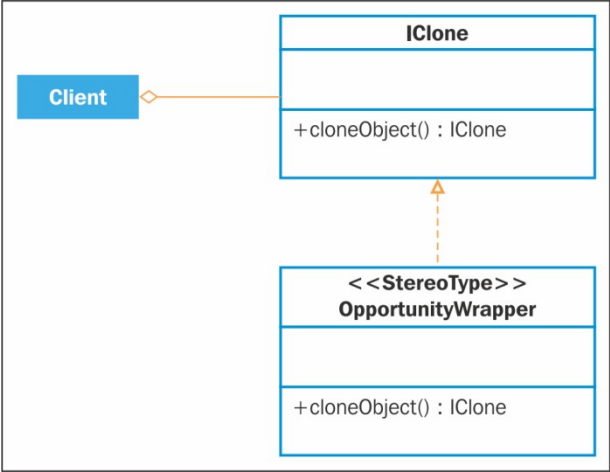
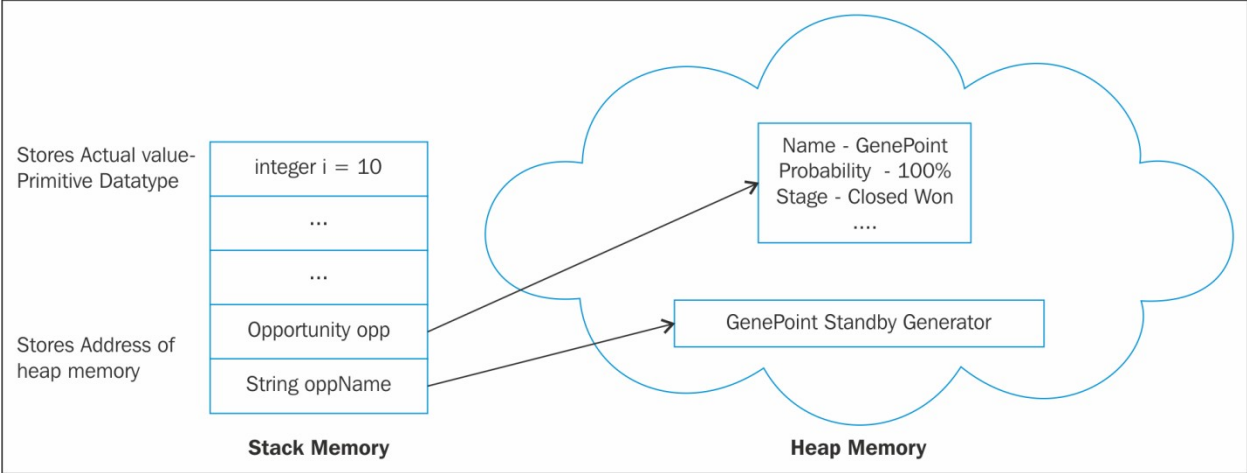




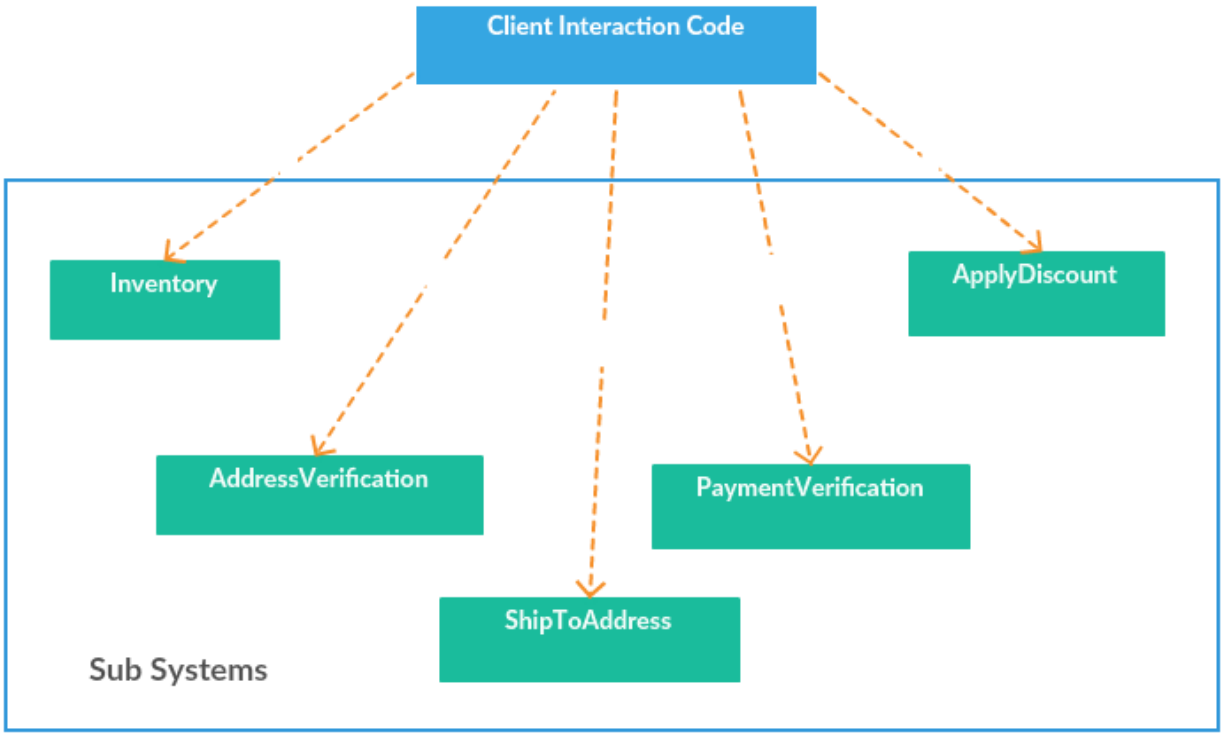


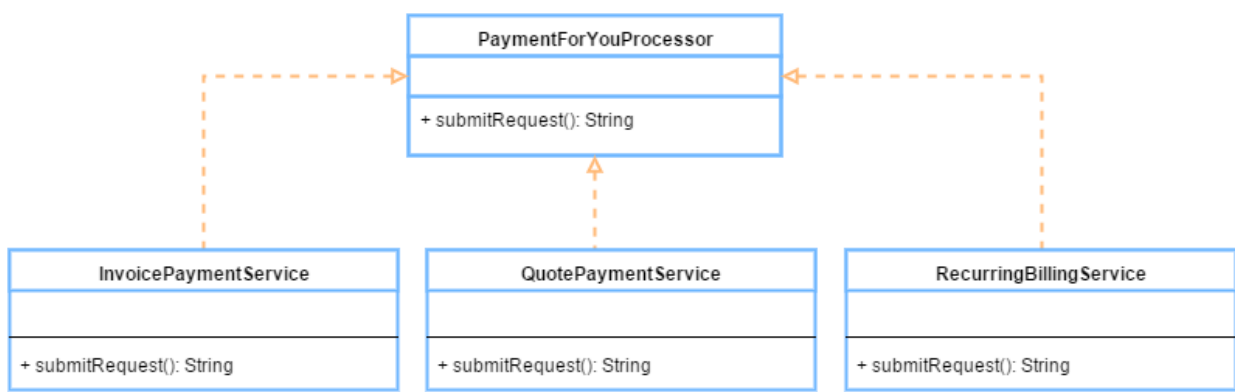
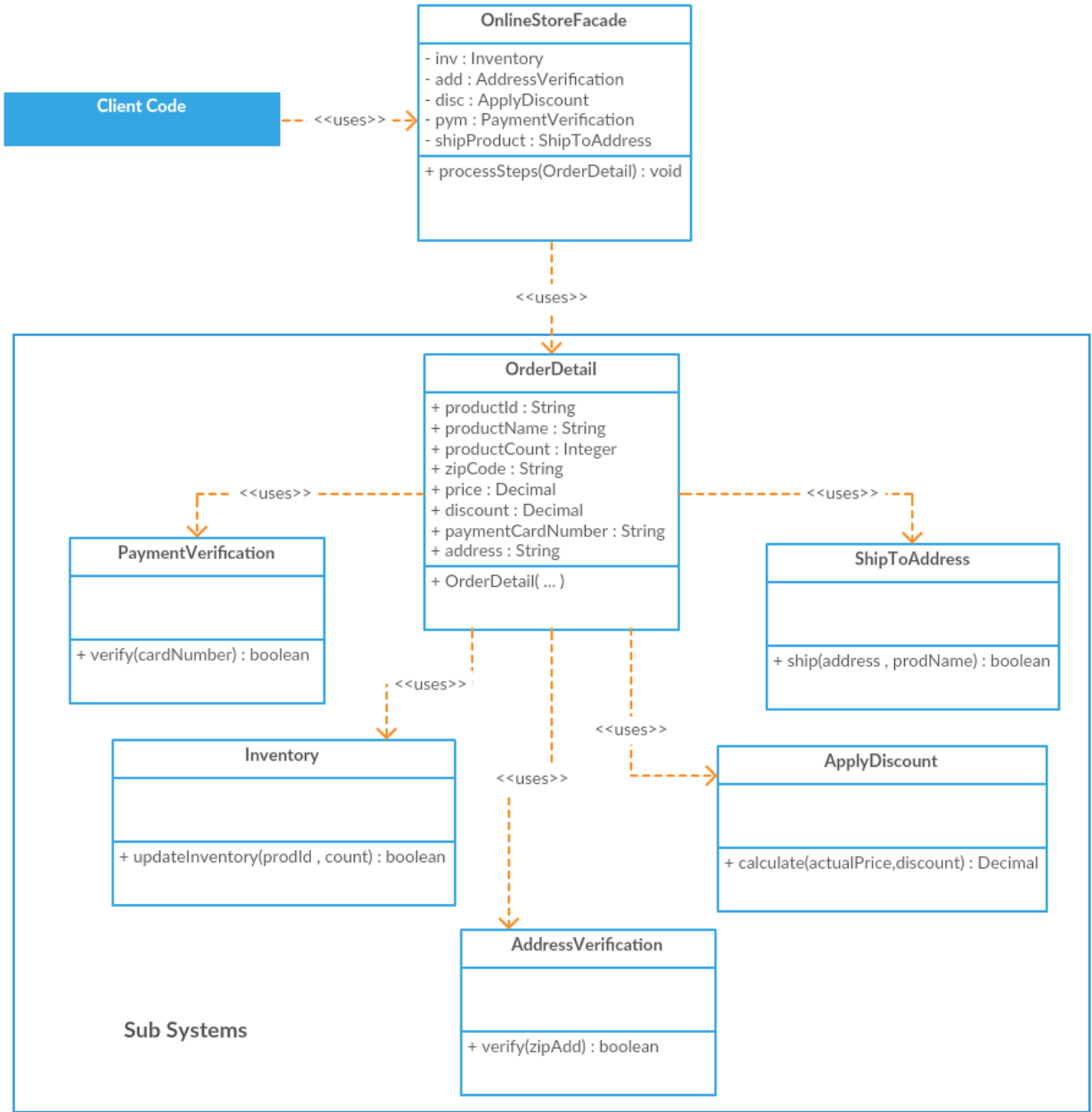


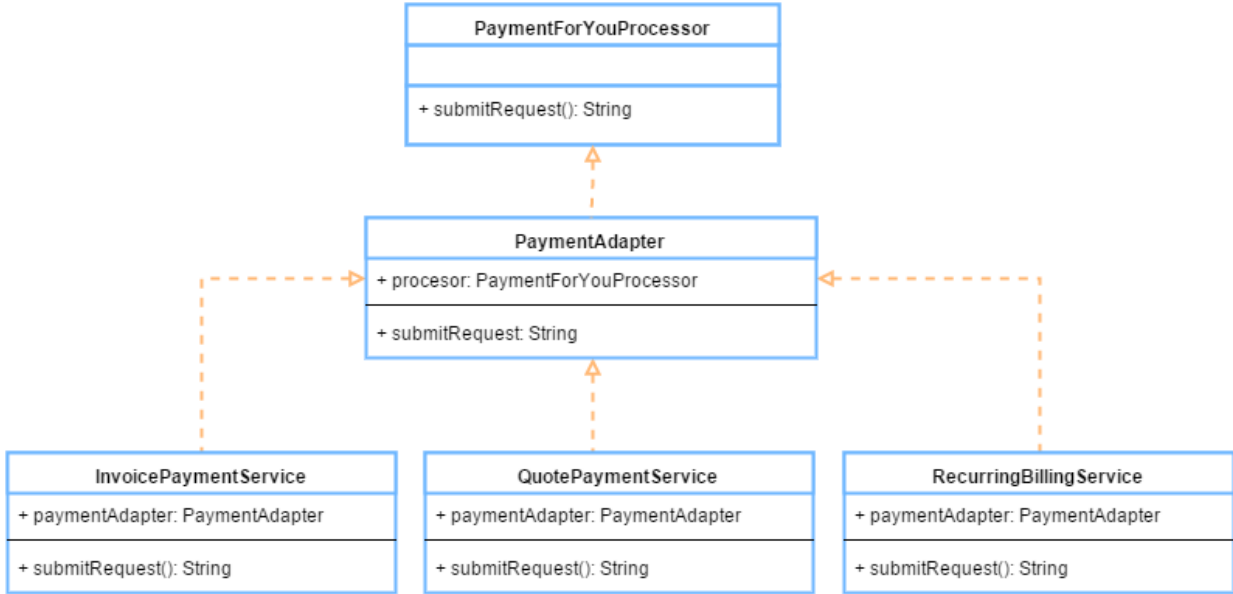




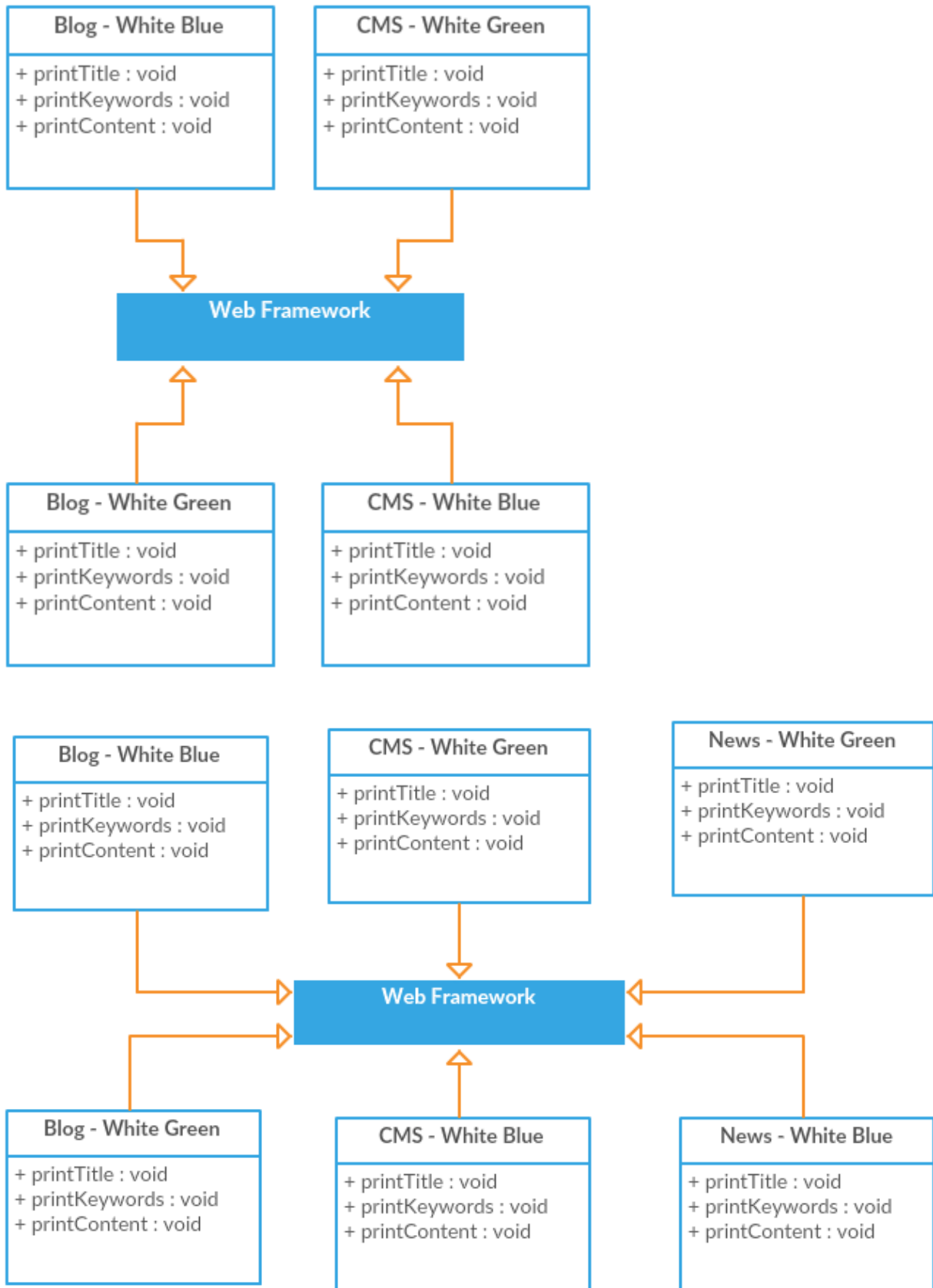
Chapter 3: Structural Patterns

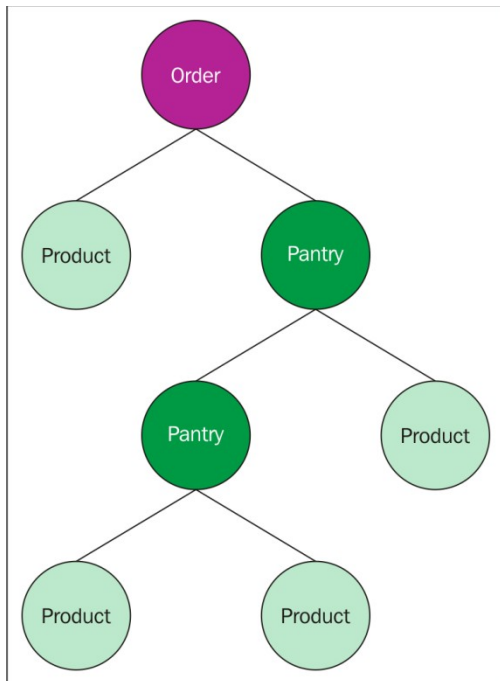
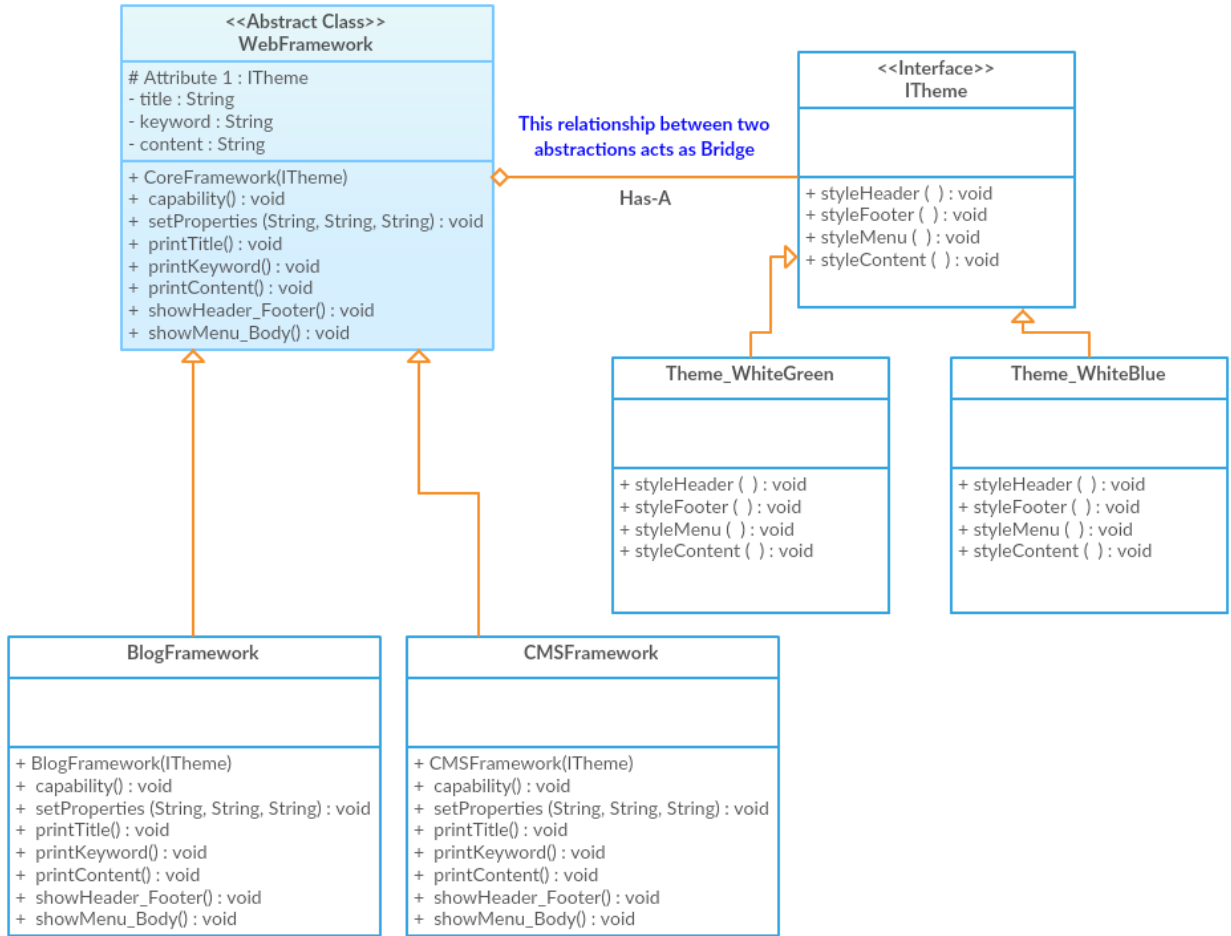


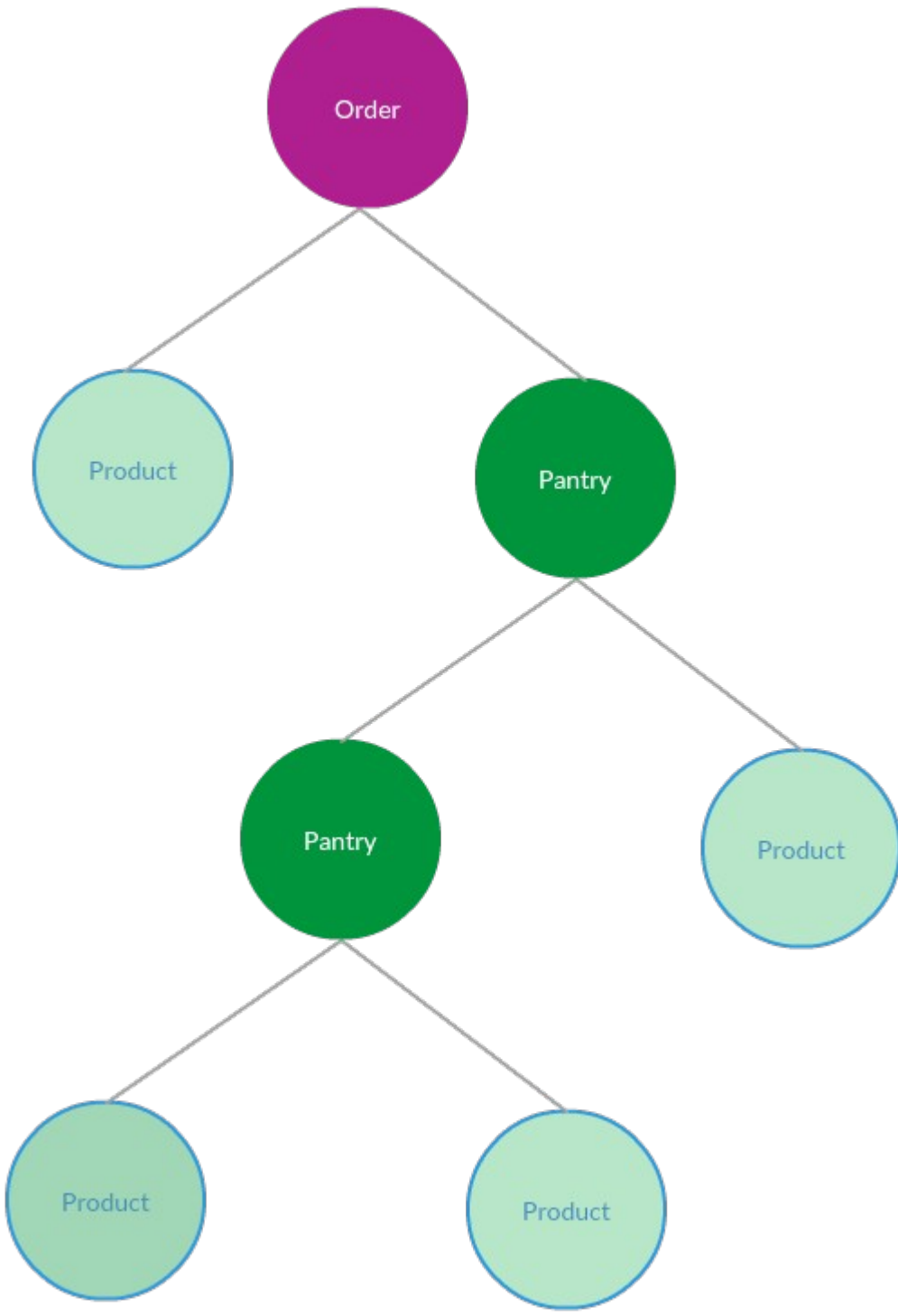


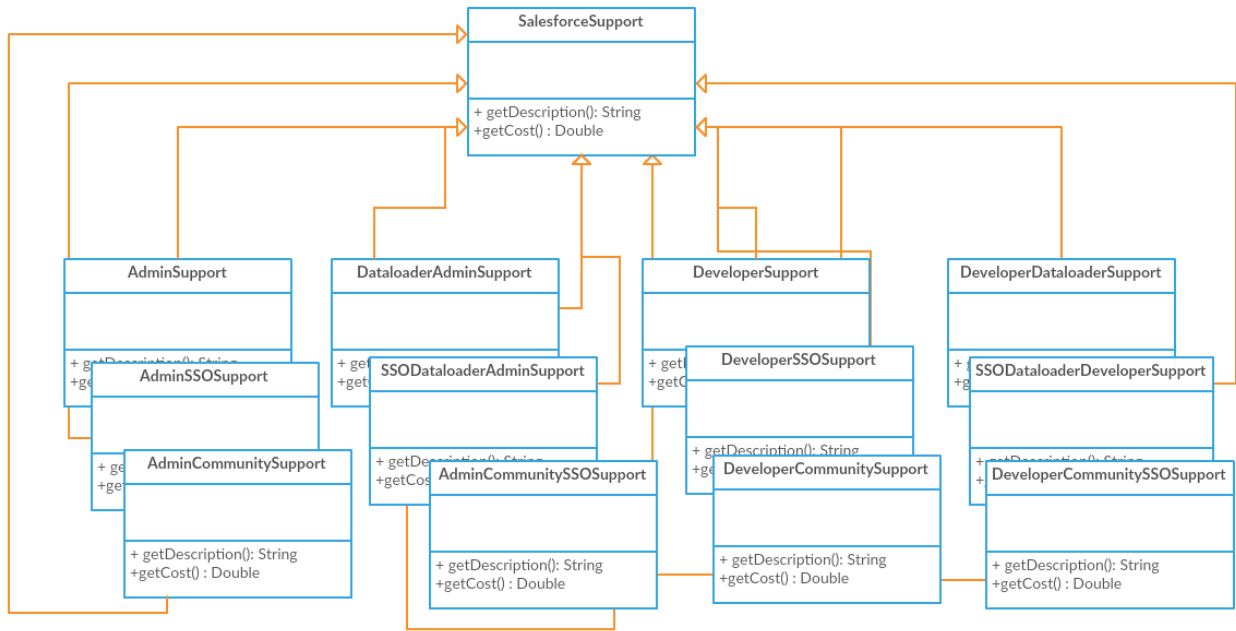
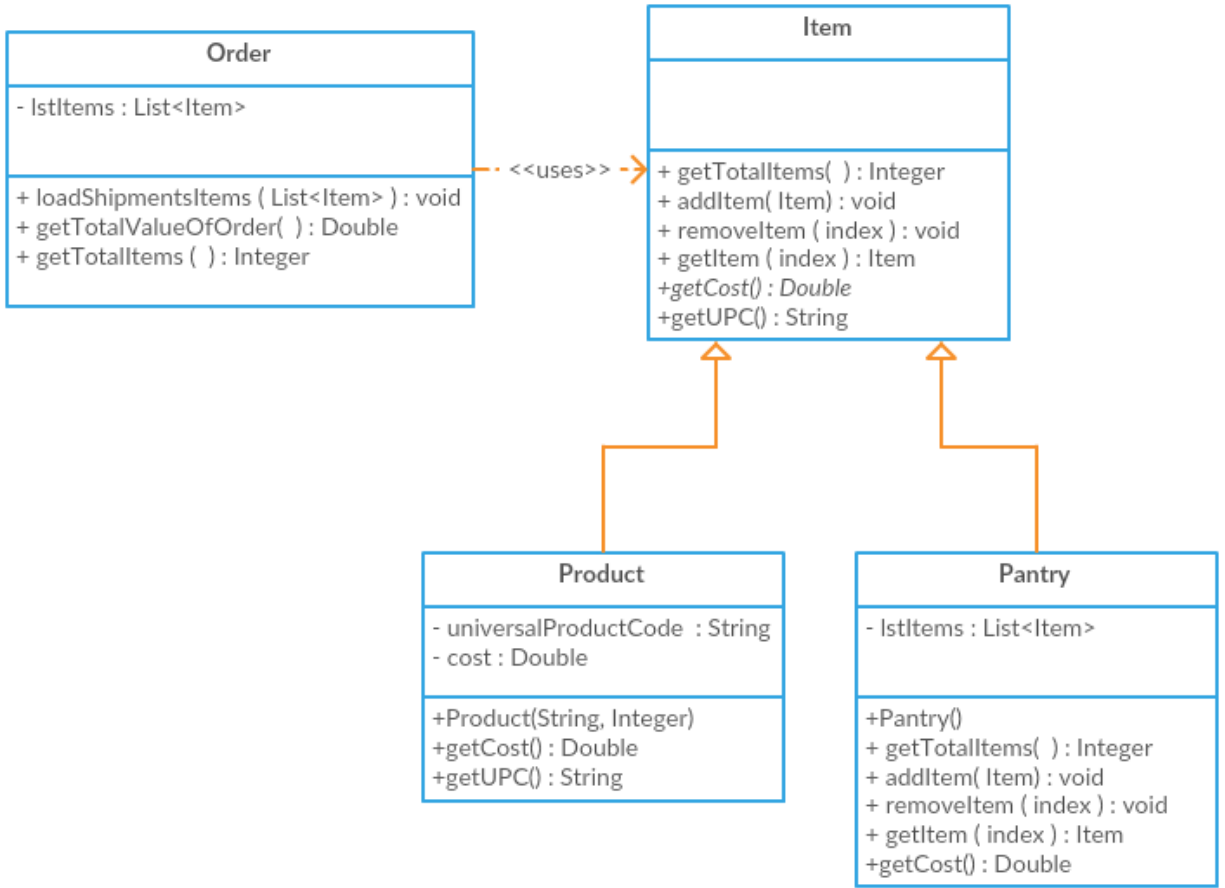


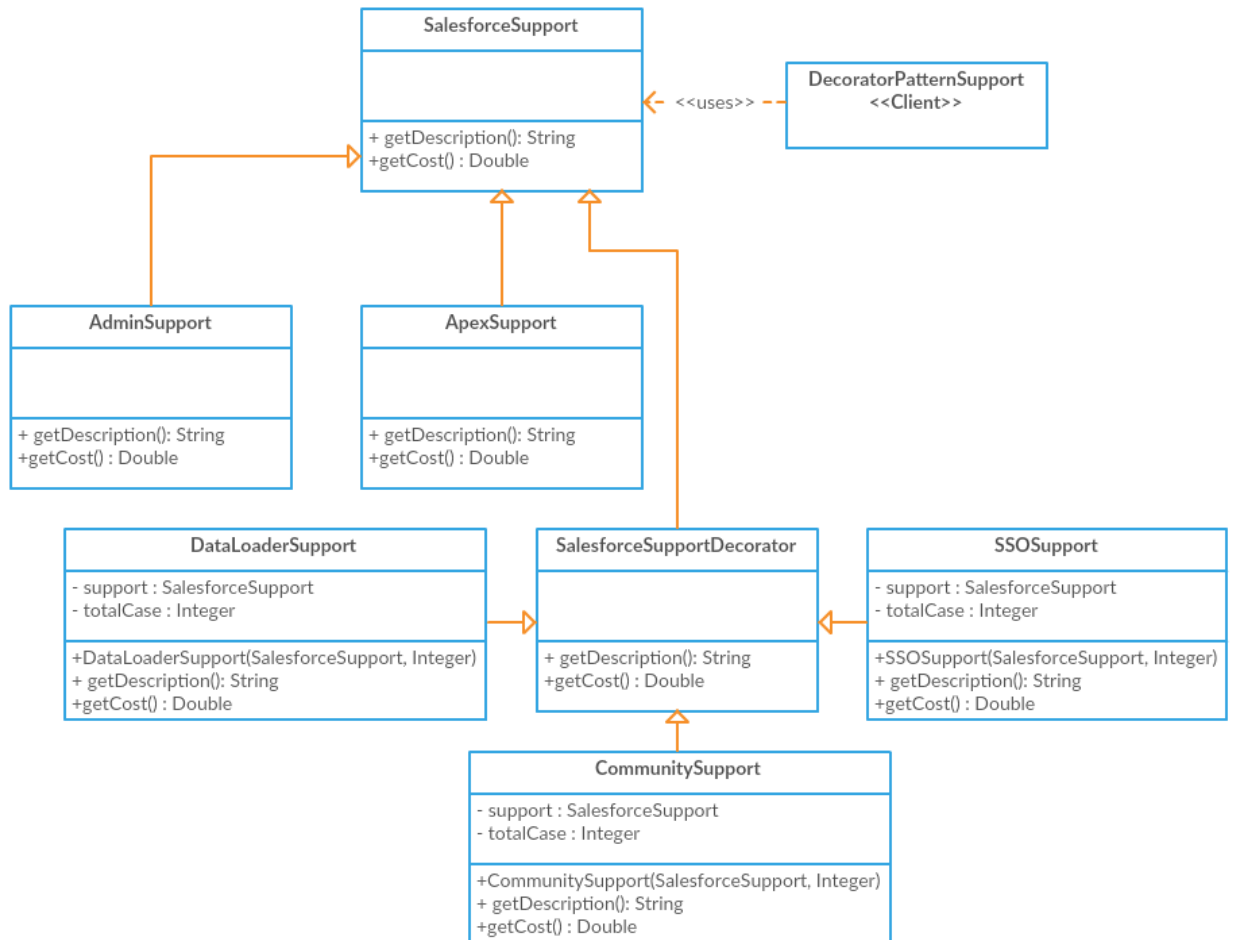
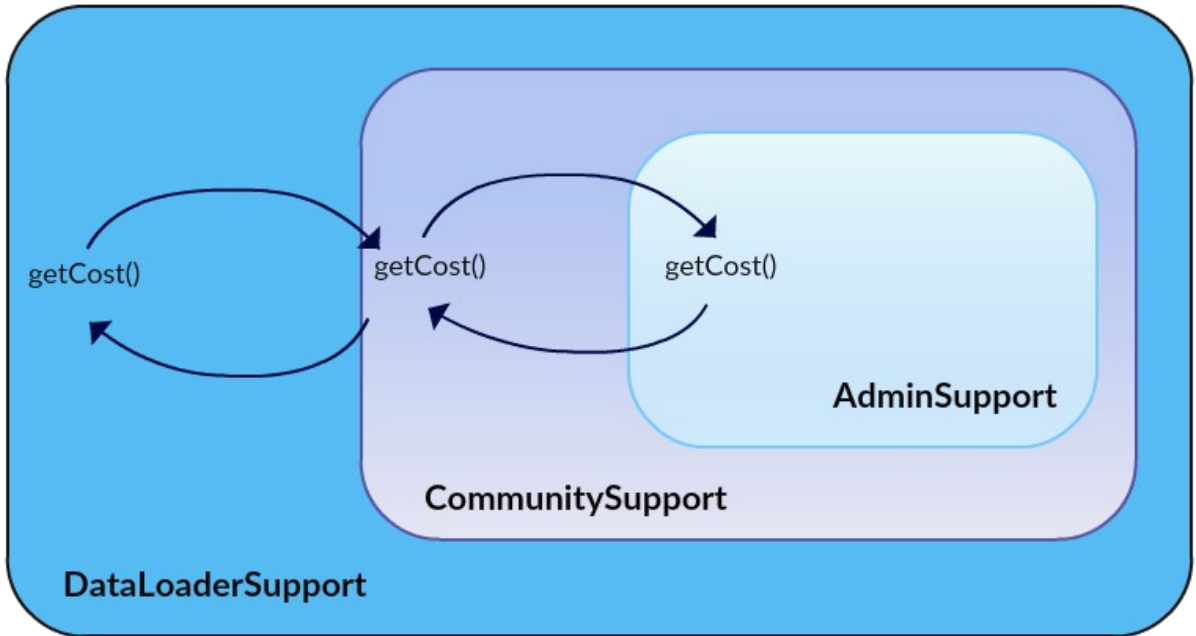






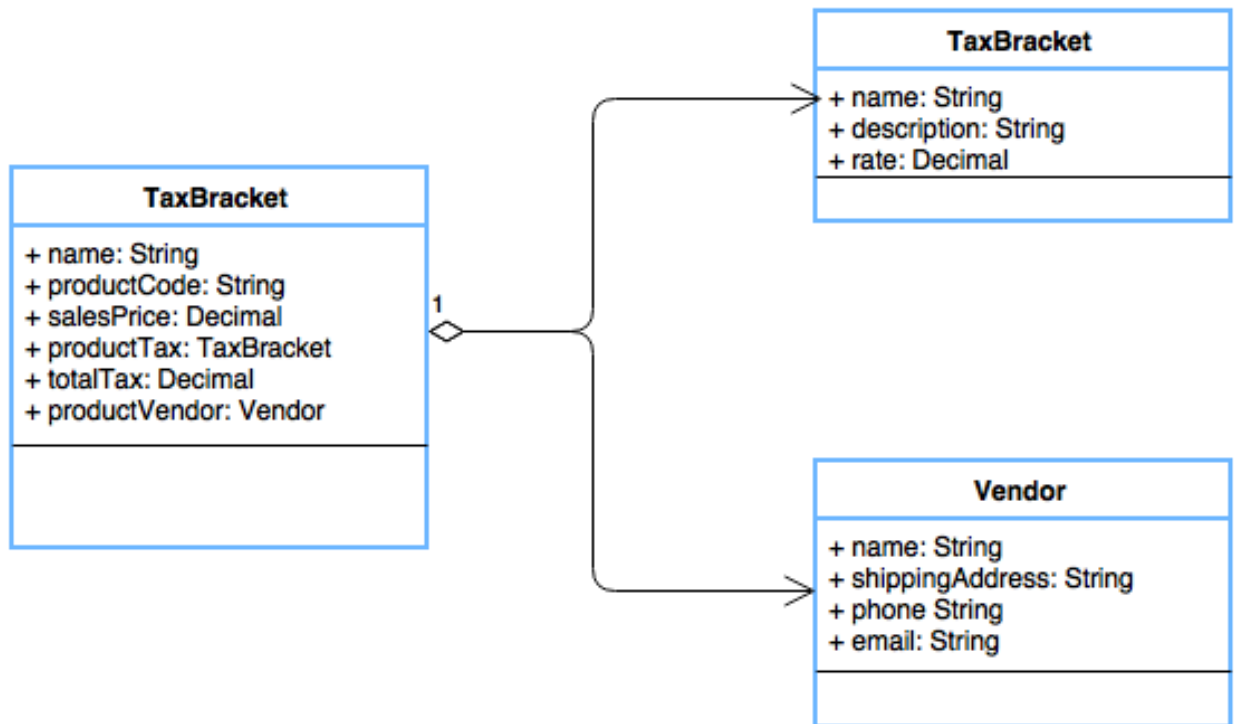
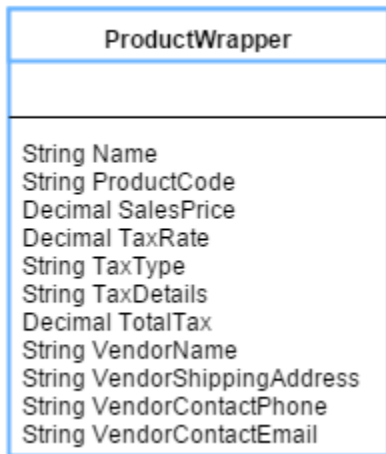


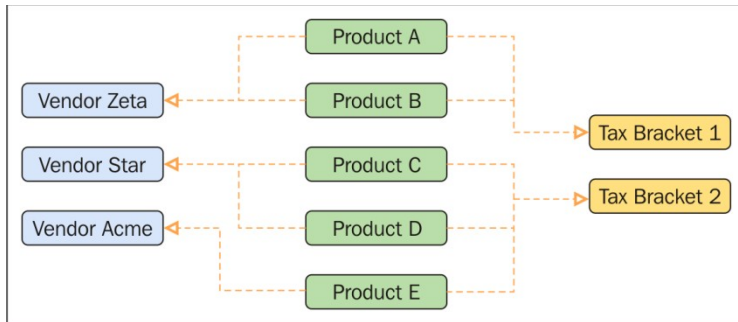




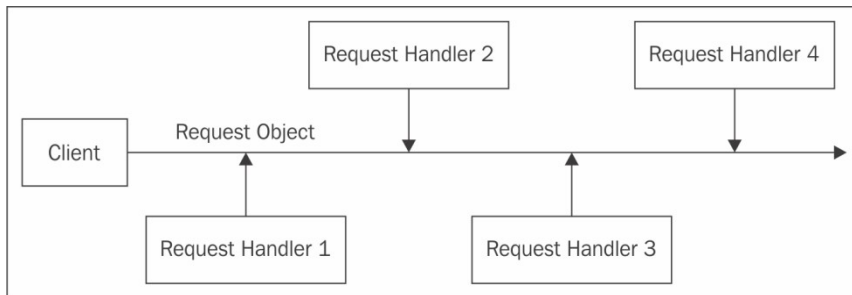
Products

Name	Product Code	Tax Rate	Tax Type	Total Tax	Vendor Name	Shipping Address	Vendor Phone	Vendor Email
GenWatt Diesel 200kW	GC1040	1.5	Entertainment Tax ?	\$ 300.00	XYZ Corp	A-34 Oakwood ave., Santa Clara	345-435-2345	sales@abccopr.com
GenWatt Diesel 10kW	GC1020	0.5	Luxury Tax ?	\$ 150.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
Installation: Industrial - High	IN7080	2	Service Tax ?	\$ 200.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
SLA: Silver	SL9040	1.5	Entertainment Tax ?	\$ 300.00	XYZ Corp	A-34 Oakwood ave., Santa Clara	345-435-2345	sales@abccopr.com
GenWatt Propane 500kW	GC3040	0.5	Luxury Tax ?	\$ 150.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
SLA: Platinum	SL9080	2	Service Tax ?	\$ 200.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
GenWatt Propane 100kW	GC3020	1.5	Entertainment Tax ?	\$ 300.00	XYZ Corp	A-34 Oakwood ave., Santa Clara	345-435-2345	sales@abccopr.com
GenWatt Propane 1500kW	GC3060	0.5	Luxury Tax ?	\$ 150.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
GenWatt Diesel 1000kW	GC1060	2	Service Tax ?	\$ 200.00	ABC Corp	123 Park street, Mount View	345-435-2345	sales@abccopr.com
SLA: Bronze	SL9020	1.5	Entertainment Tax ?	\$ 300.00	XYZ Corp	A-34 Oakwood ave., Santa Clara	345-435-2345	sales@abccopr.com



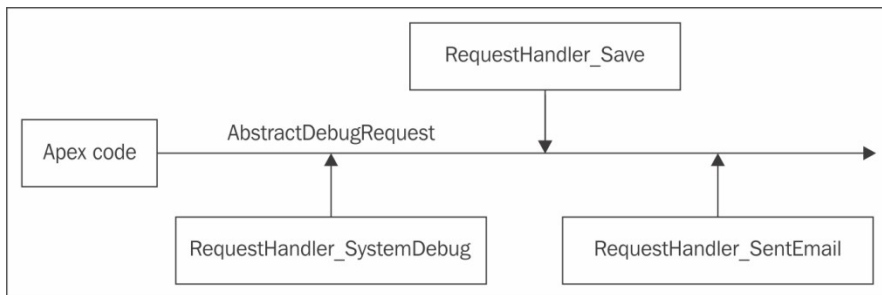


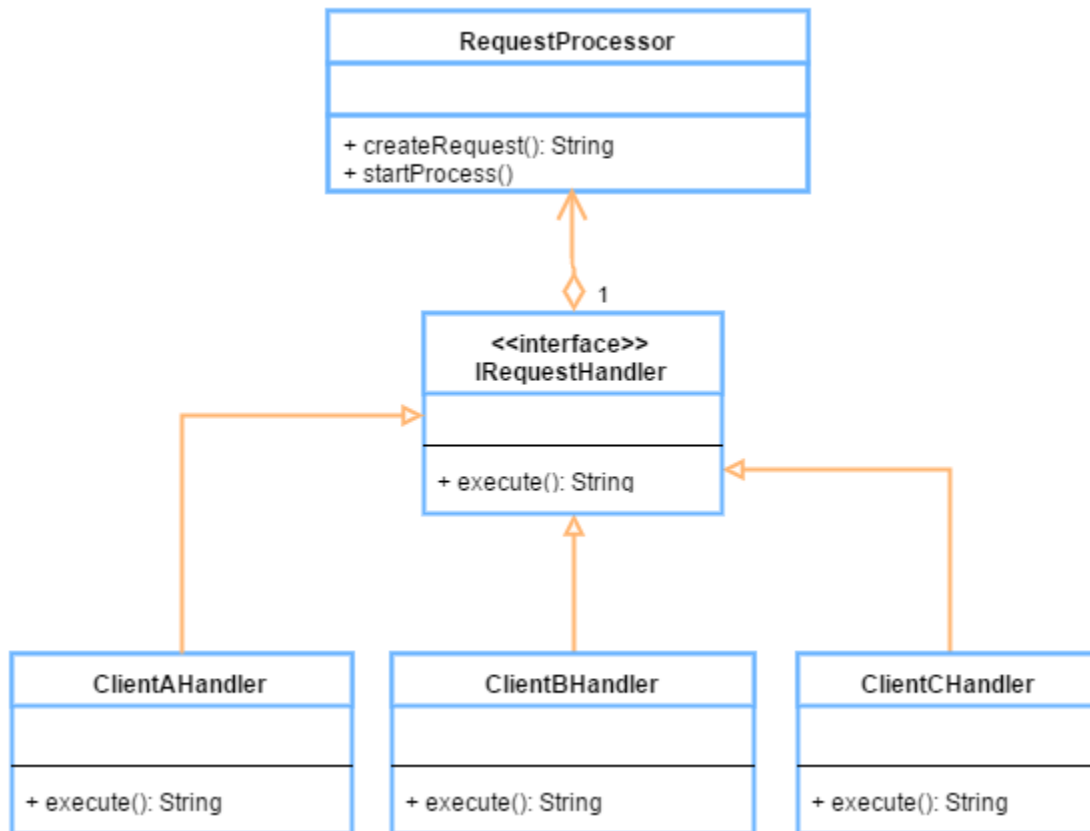
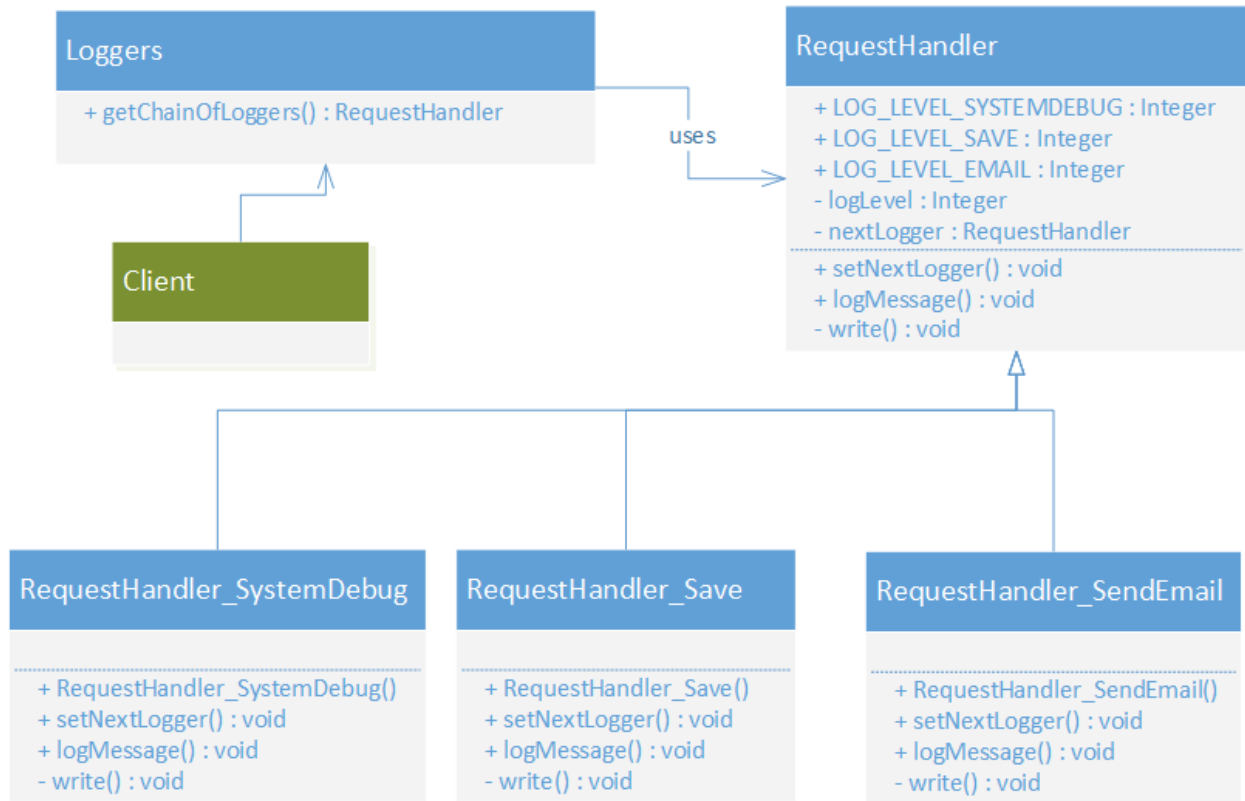
Chapter 4: Behavioral Patterns

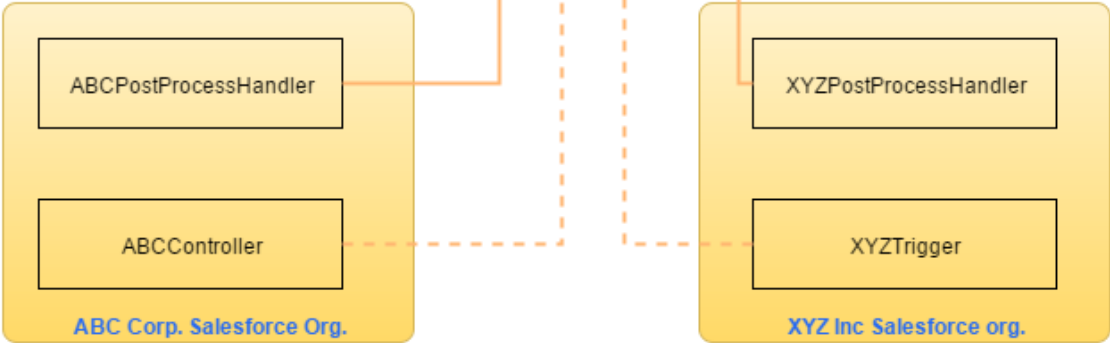
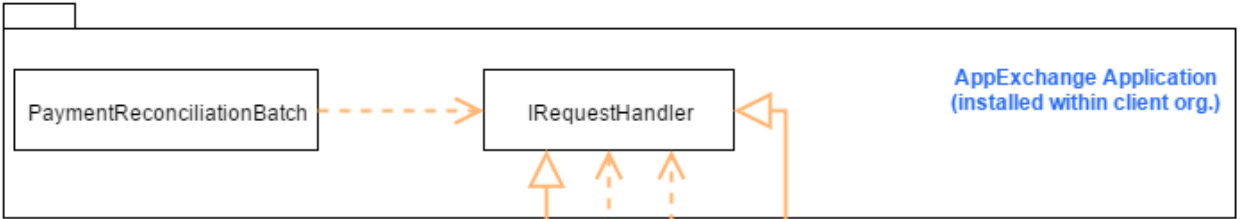
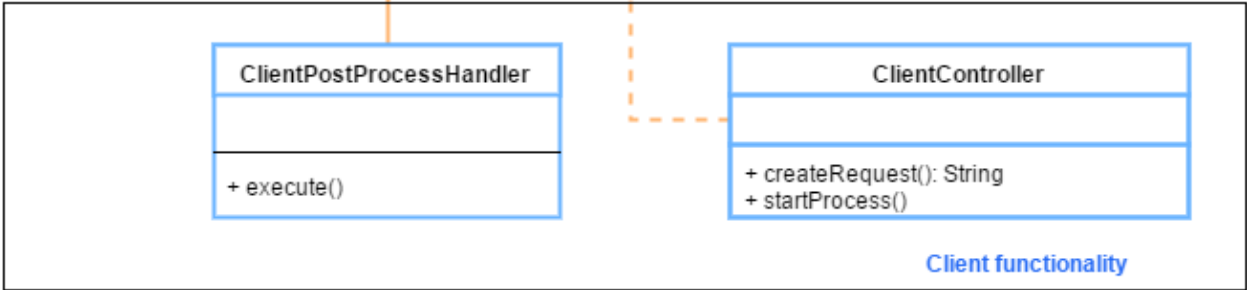
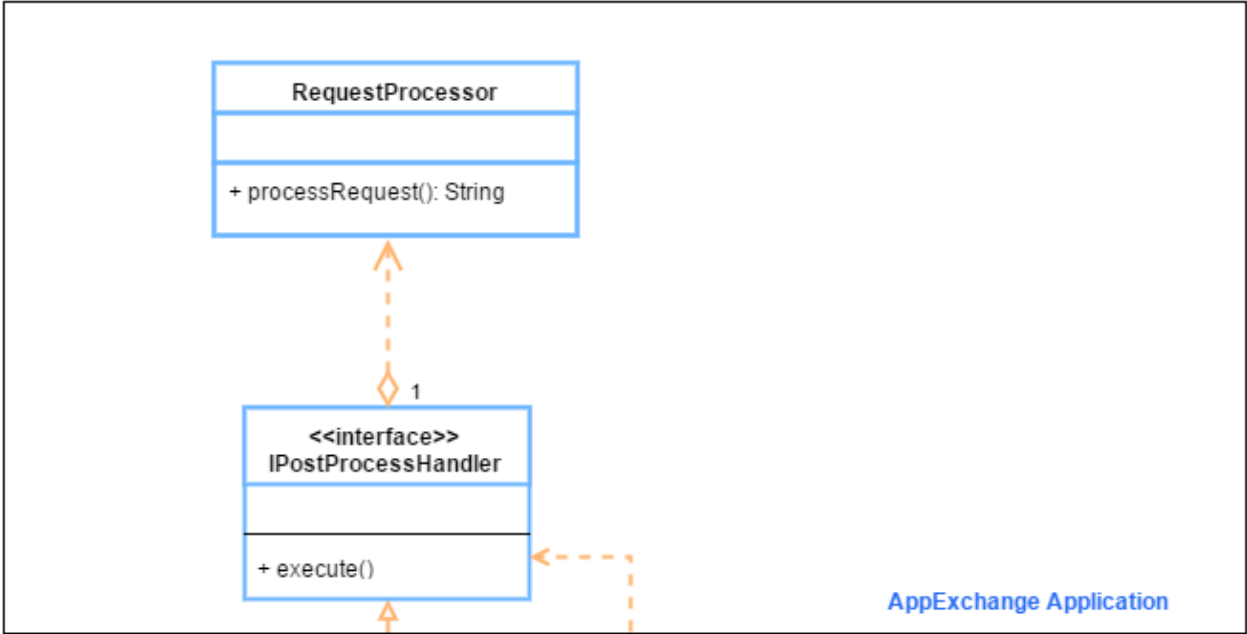


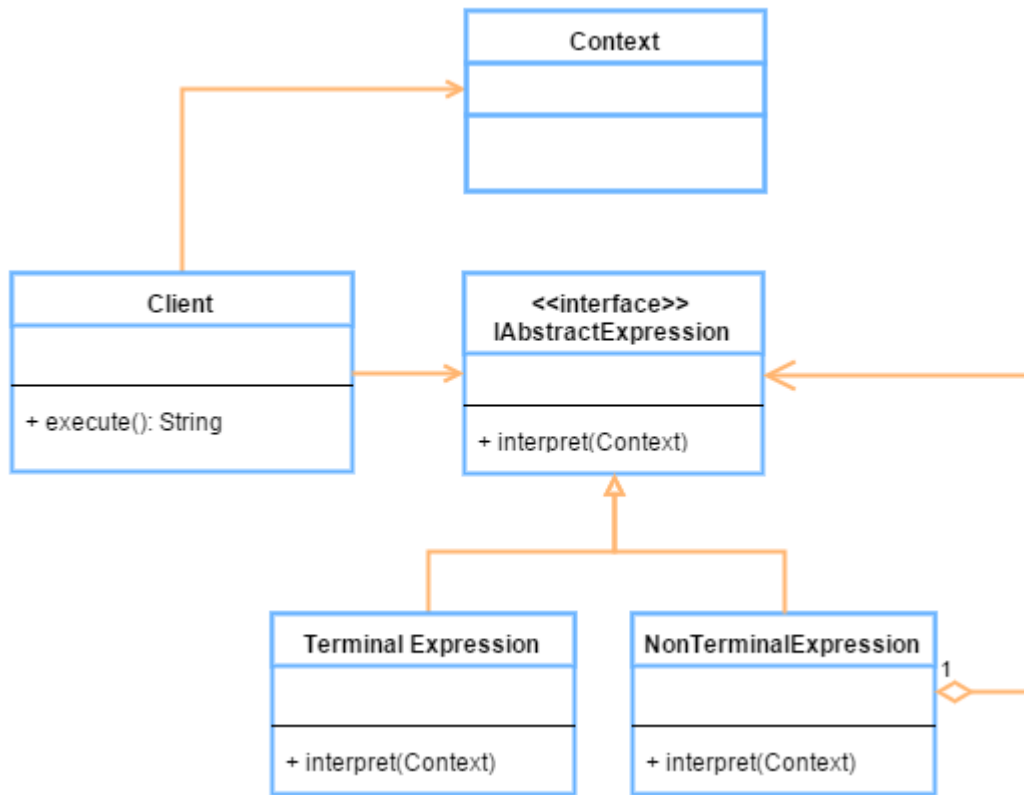
Debug ⚙️

Created By	Lookup(User)
Debug Number	Auto Number
Last Modified By	Lookup(User)
Message	Long Text Area(32768)
Owner	Lookup(User+1)
Title	Text(255) (External ID)



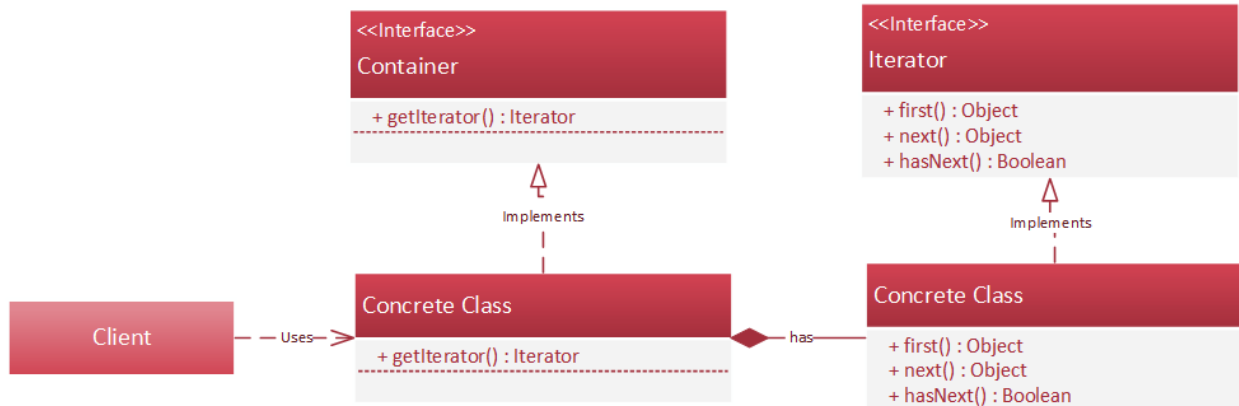
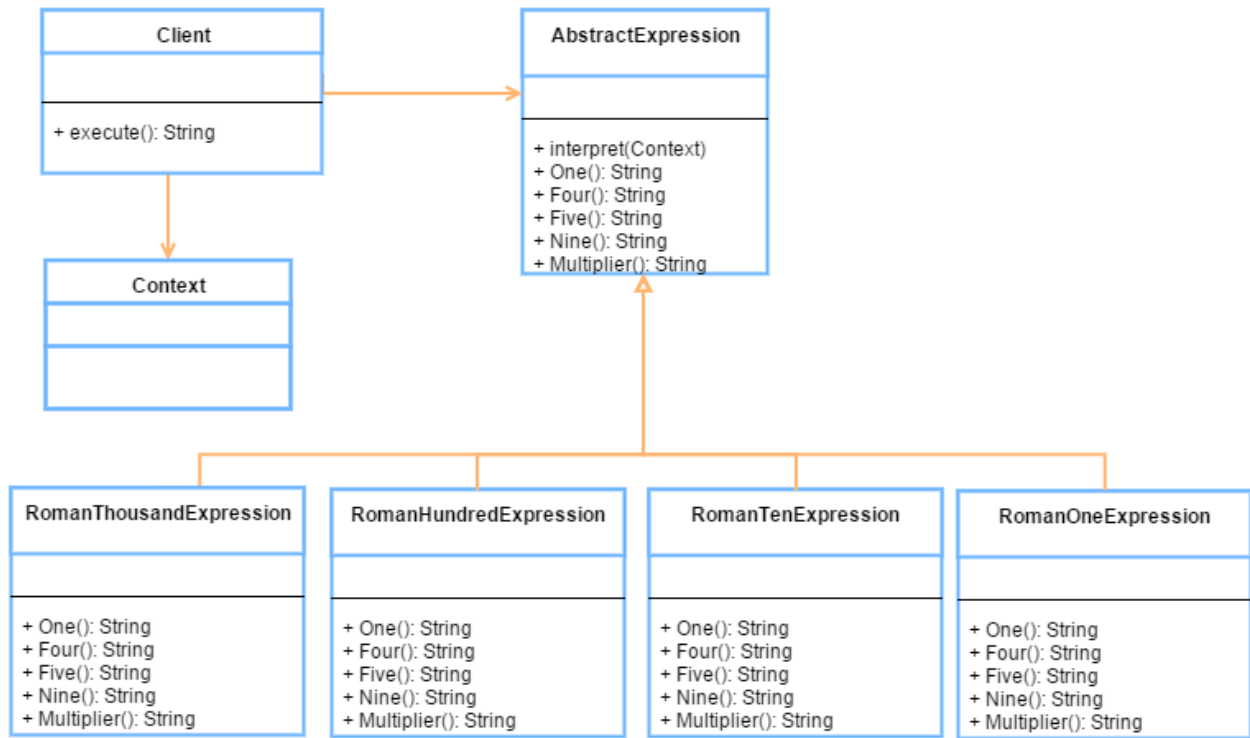






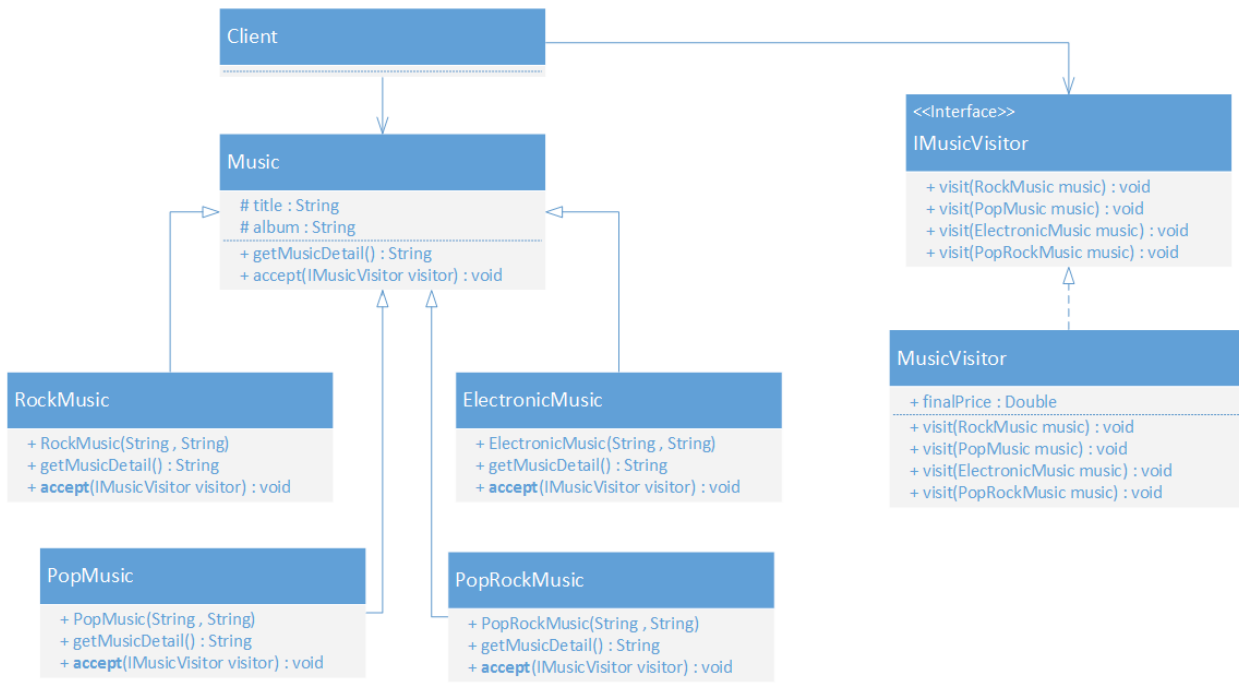
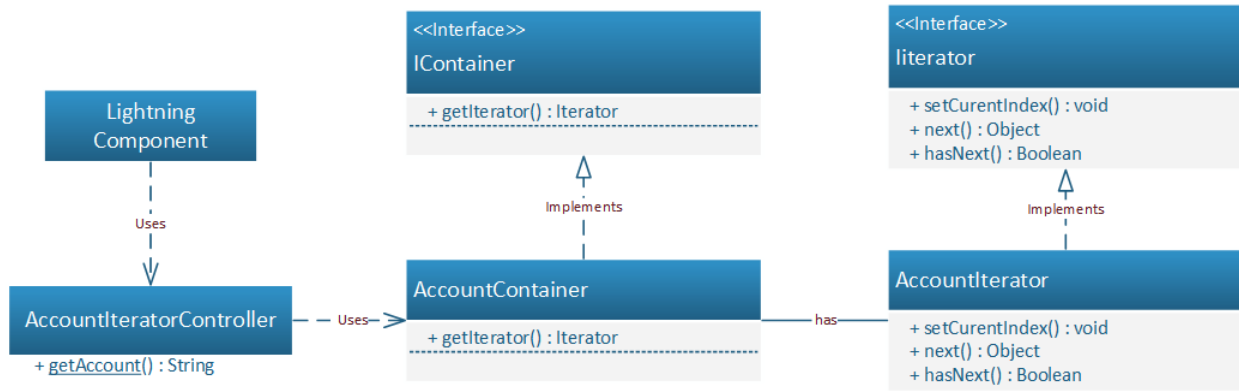
Roman number converter

Roman number Decimal number



United Oil & Gas, UK
UOS

Next



Quote
New Quote

Save Cancel

Quote Information ! = Required Information

Quote Name Opportunity Name

Expiration Date [11/18/2015] Status

Legal Terms

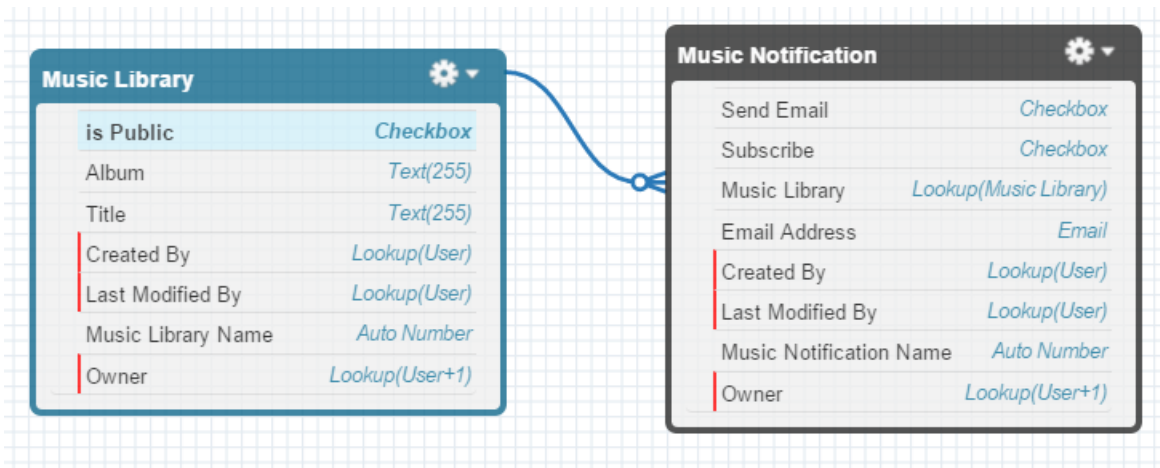
Scope

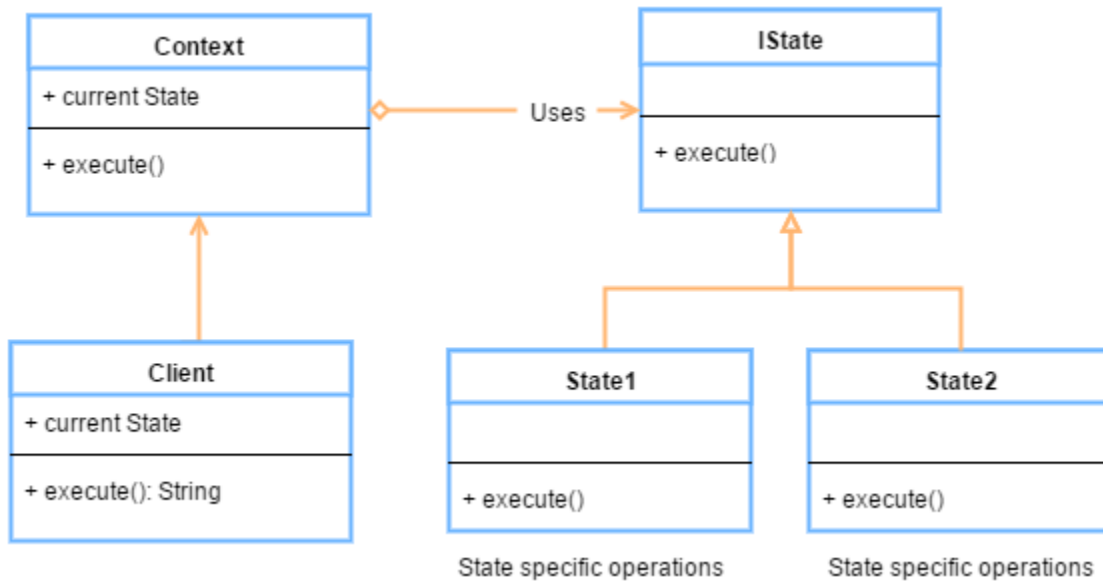
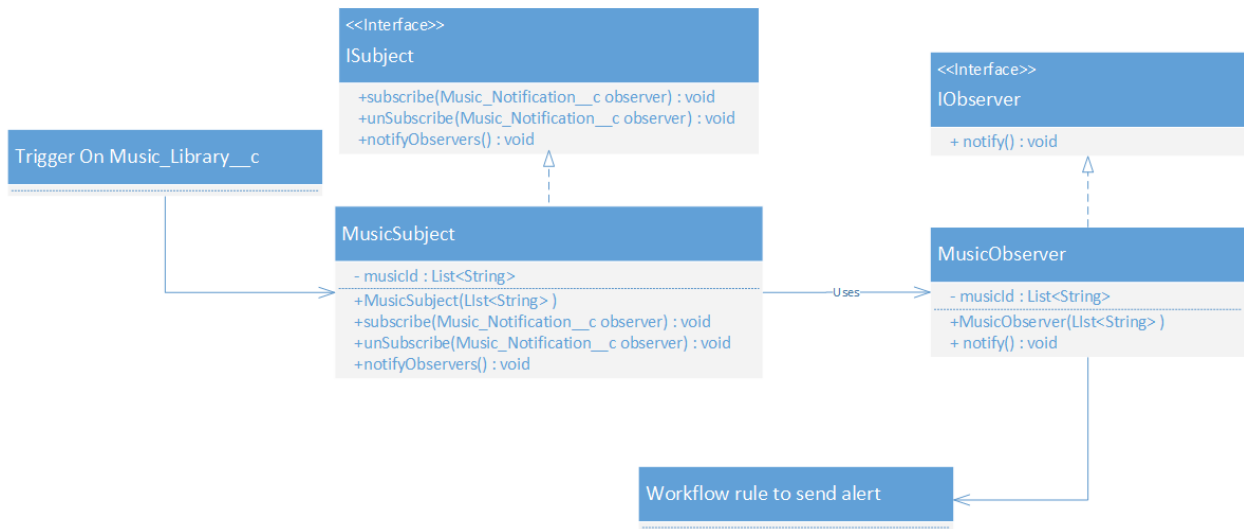
Out of Scope

Assumptions

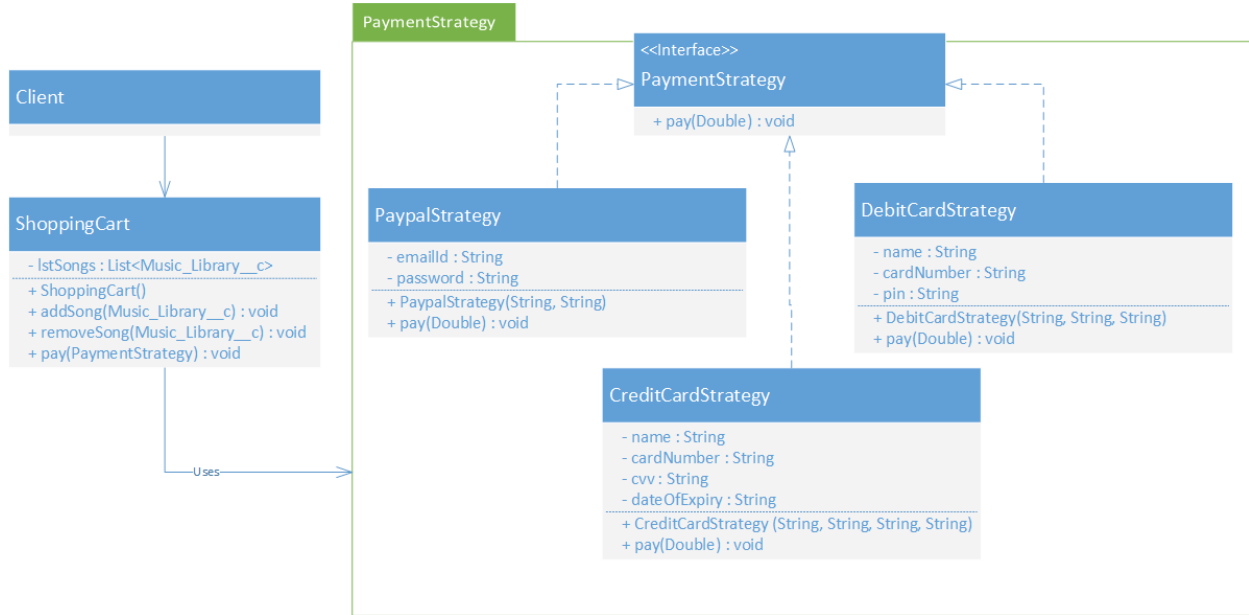
Legal clauses

Save Cancel

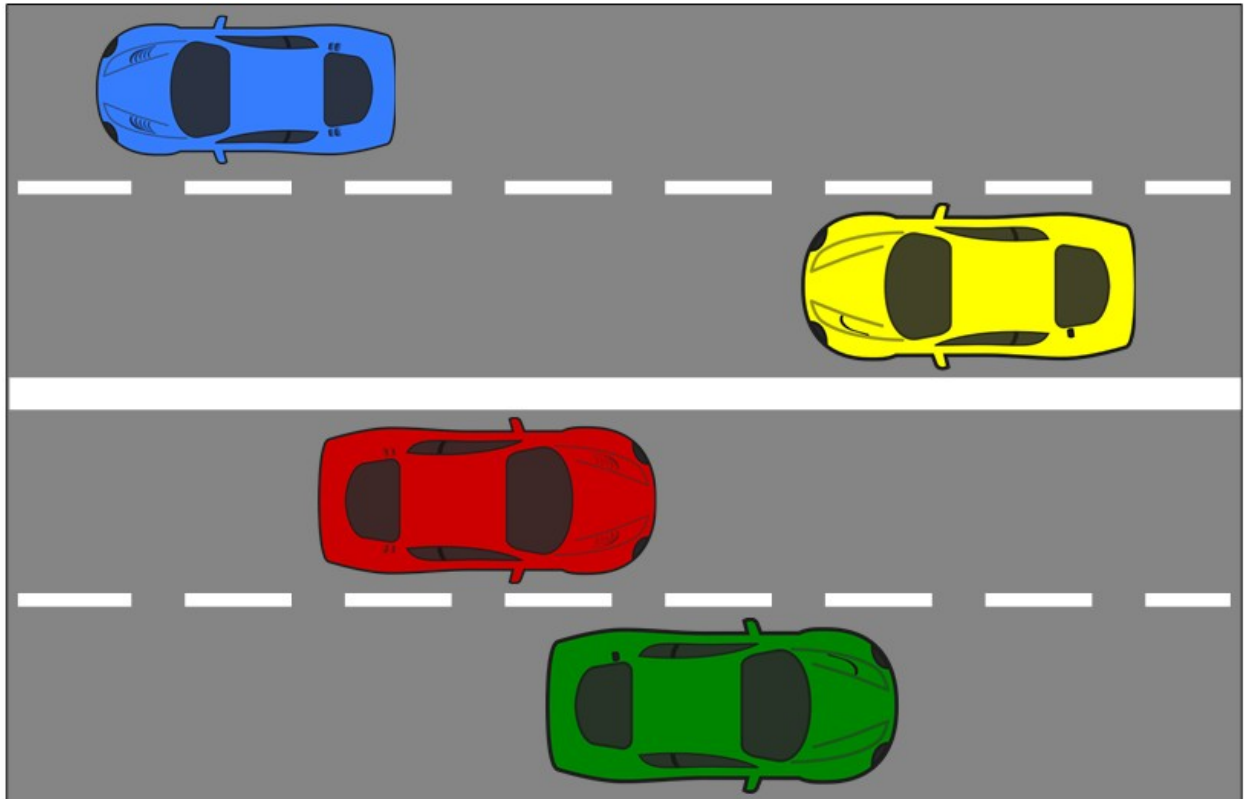


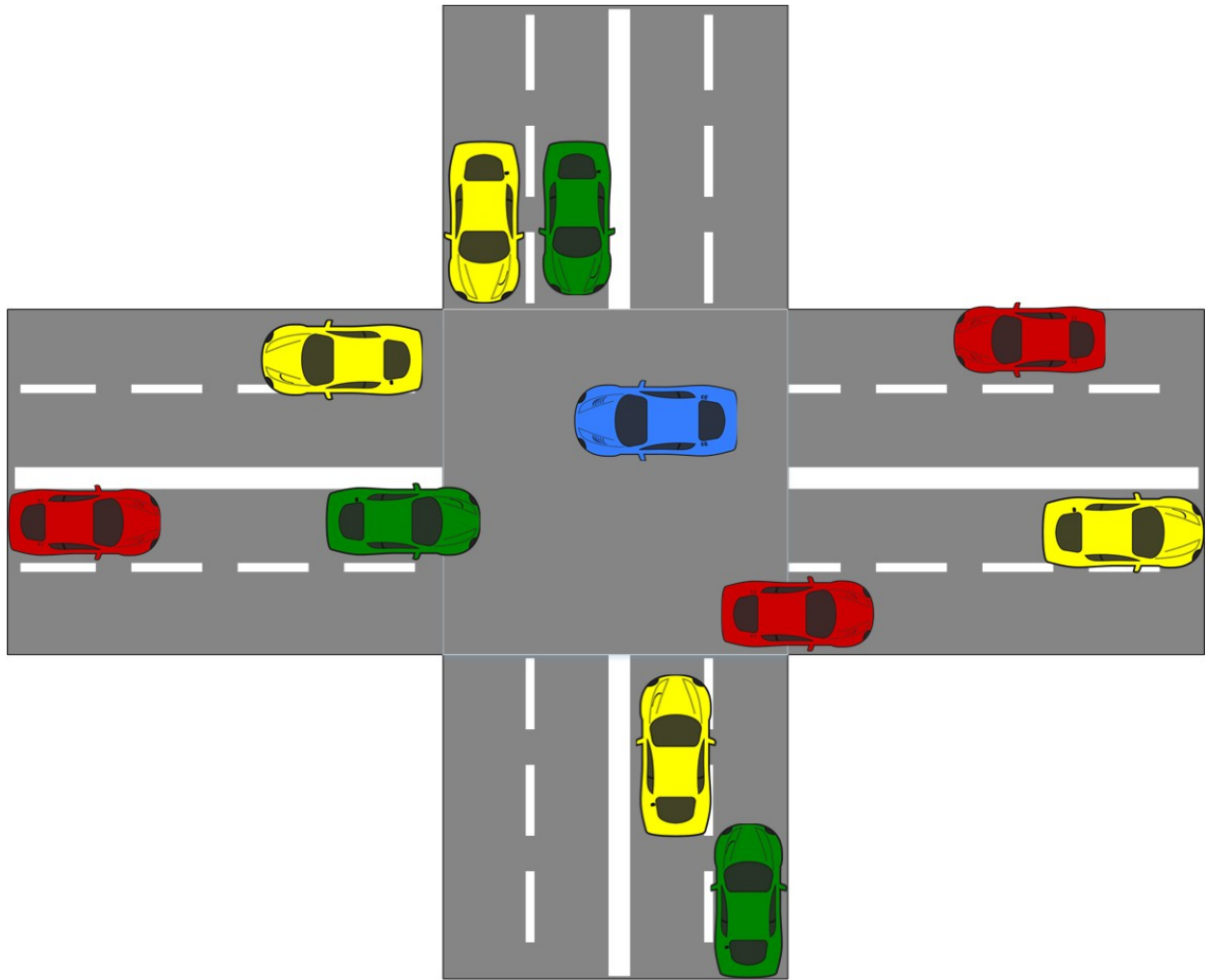



Music Library	
price	Currency(16, 2)
Album	Text(255)
Created By	Lookup(User)
is Public	Checkbox
Last Modified By	Lookup(User)
Music Library Name	Auto Number
Owner	Lookup(User+1)
Title	Text(255)

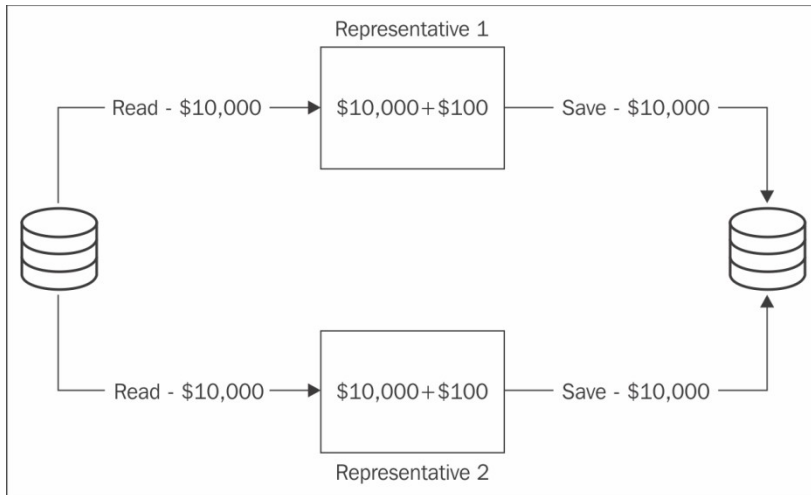


Chapter 5: Handling Concurrency in Apex





Fund Account 	
Available Fund	Currency(18, 0)
Created By	Lookup(User)
Fund Account Name	Text(80)
Last Modified By	Lookup(User)
Owner	Lookup(User+1)



<html> Search... Search

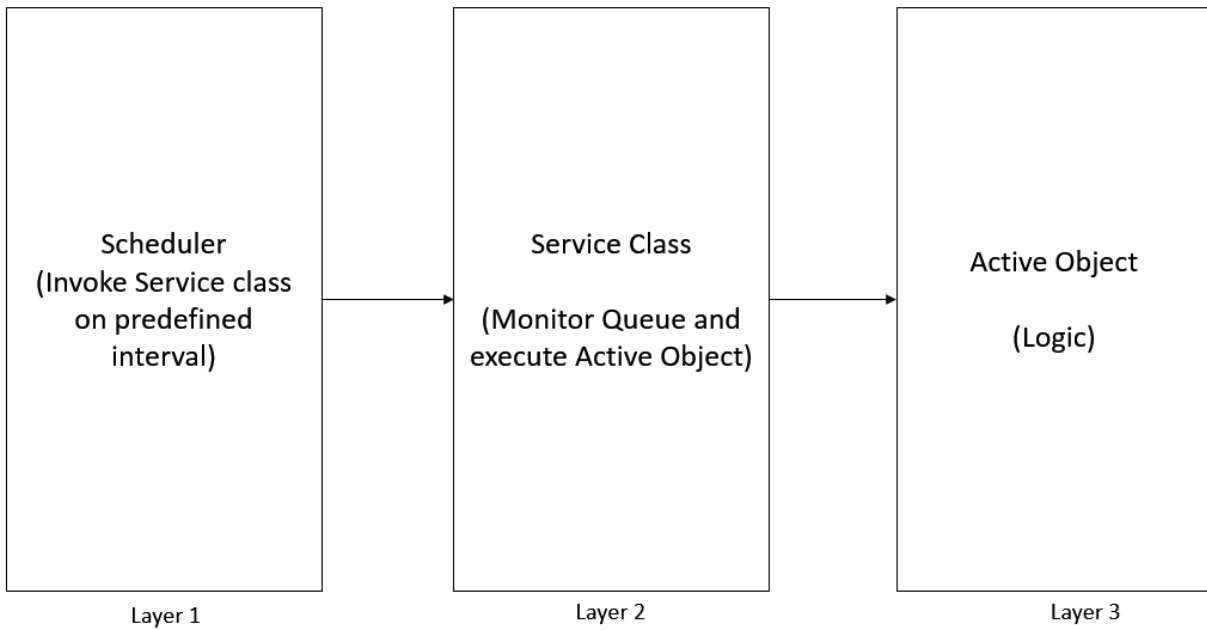
Home Chatter Login Details Area Offices Brokers Debug Fund Accounts +

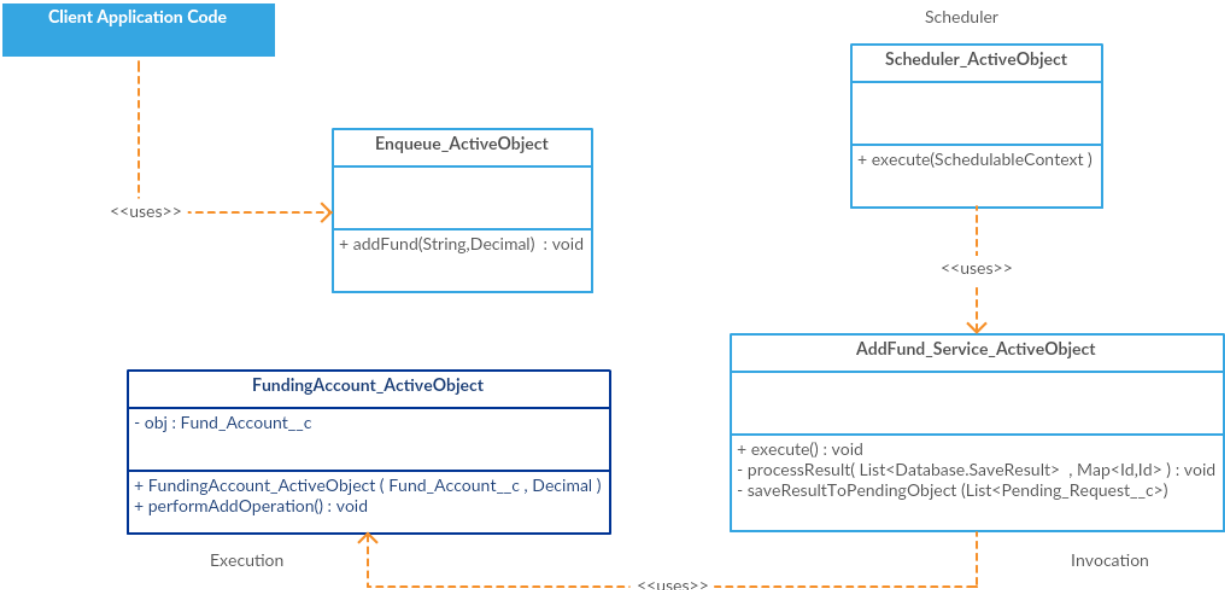
Create New... Recent Items

Your Changes Cannot Be Saved

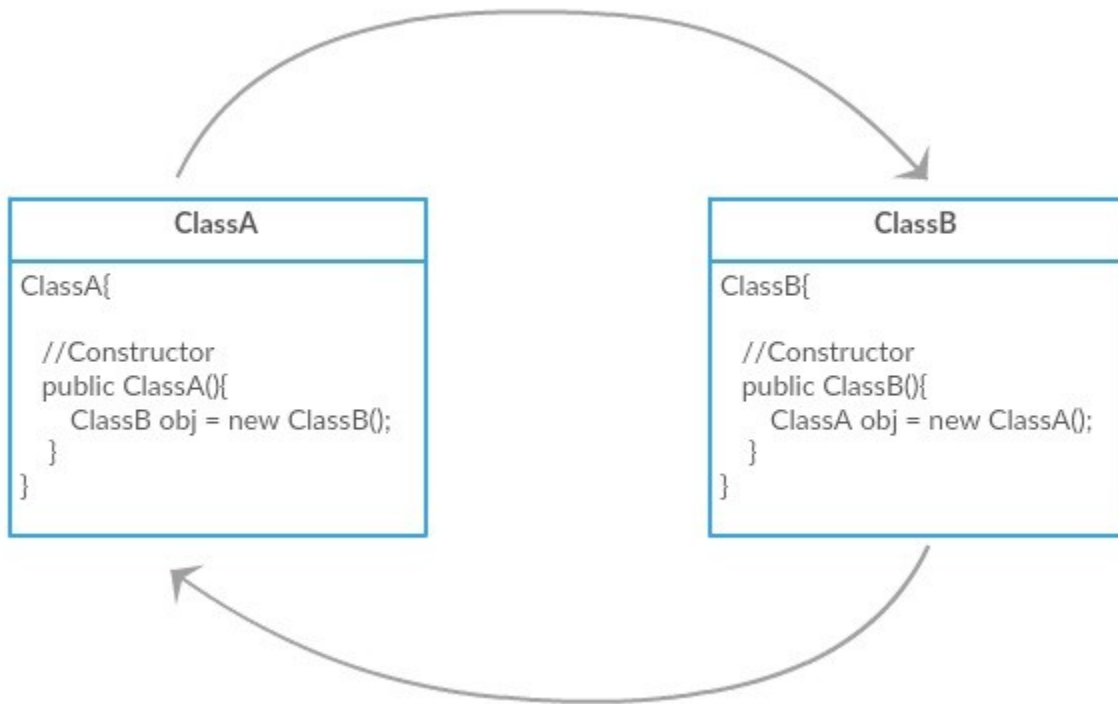
The record you were editing was modified by [Jitendra Zaa](#) during your edit session.
Please re-display the record before editing again.

Pending Request	
Created By	Lookup(User)
Is Processed	Checkbox
Last Modified By	Lookup(User)
Note	Long Text Area(32768)
Operation Type	Text(255)
Owner	Lookup(User+1)
Pending Request Number	Auto Number
Record Id	Text(255) (External ID)





Chapter 6: Anti-patterns and Best Practices





Contact Edit

Mr. Jack Rogers

[Help for this Page](#)

Contacts not associated with accounts are private and cannot be viewed by other users or included in reports.

Contact Edit

Error: Invalid Data.

Review all error messages below to correct your data.

Apex trigger Contact_CD caused an unexpected exception, contact your administrator: Contact_CD: execution of BeforeUpdate caused by: System.DmlException: Update failed. First exception on row 0 with id 00137000002gYObAAM; first error: CANNOT_INSERT_UPDATE_ACTIVATE_ENTITY, Account_CD: execution of BeforeUpdate caused by: System.DmlException: Update failed. First exception on row 0 with id 00337000001q5fcAAA; first error: SELF_REFERENCE_FROM_TRIGGER, Object (id = 00337000001q5fc) is currently in trigger Contact_CD, therefore it cannot recursively update itself: [] Trigger.Account_CD: line 19, column 1: [] Trigger.Contact_CD: line 29, column 1

Contact Information

I = Required Information

[Files \[1\]](#) | [Orders \[0\]](#) | [Contact Roles \[0\]](#) | [Entitlements \[0\]](#) | [Assets \[0\]](#) | [Service Contracts \[0\]](#) | [Contacts \[0\]](#) | [Opportunities \[0\]](#) | [Cases \[0\]](#) | [Open Activities \[0\]](#) | [Activity History \[0\]](#) | [Notes & Attachments \[1\]](#) | [Partners \[0\]](#) | [Account Team \[0\]](#) | [Accounts \[0\]](#)

Account Detail

You cannot set a hierarchy field Account Circular dependency to point to itself or a child record. Either edit one of the child records to not refer to this record, or do not set the field on this record.

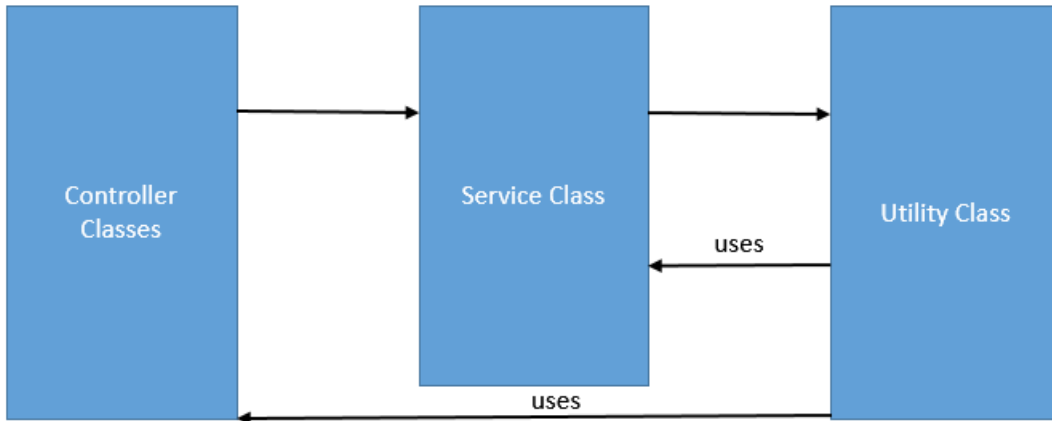


Fig a : Circular Dependency between layers

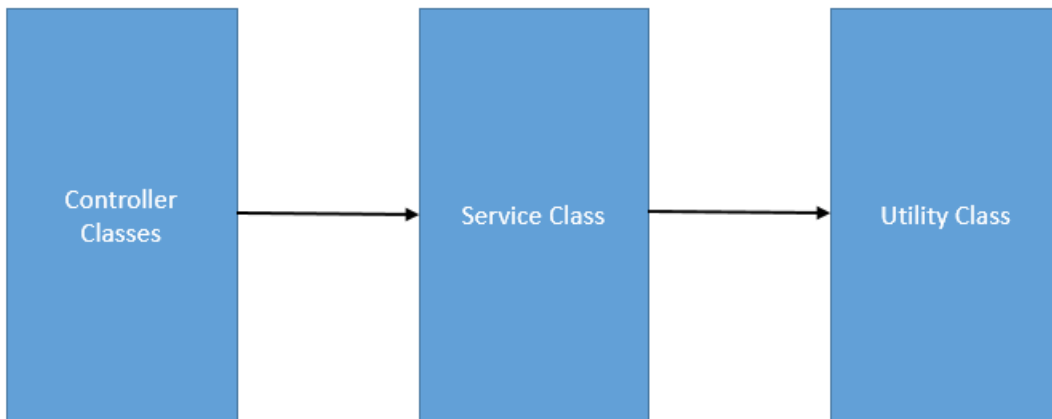


Fig b : No Circular Dependency between layers

Home Chatter Login Details Area Offices Brokers Debug Fund Accounts Pending Requests +

Create New... Insert failed. First exception on row 0; first error: FIELD_CUSTOM_VALIDATION_EXCEPTION, Account number is mandatory: [AccountNumber]
 Error is in expression '{createAccount}' in component '<apex:commandButton>' in page generateaccount: Class.GenerateAccountController.createAccount: line 10, column 1

Recent Items An unexpected error has occurred. Your development organization has been notified.

Account
 Create New Account

Error:
 Account Number: Account number is mandatory

Save

Account Name asdad Account Number
 Error: Account number is mandatory

Save



Error:

Invalid integer: asdad