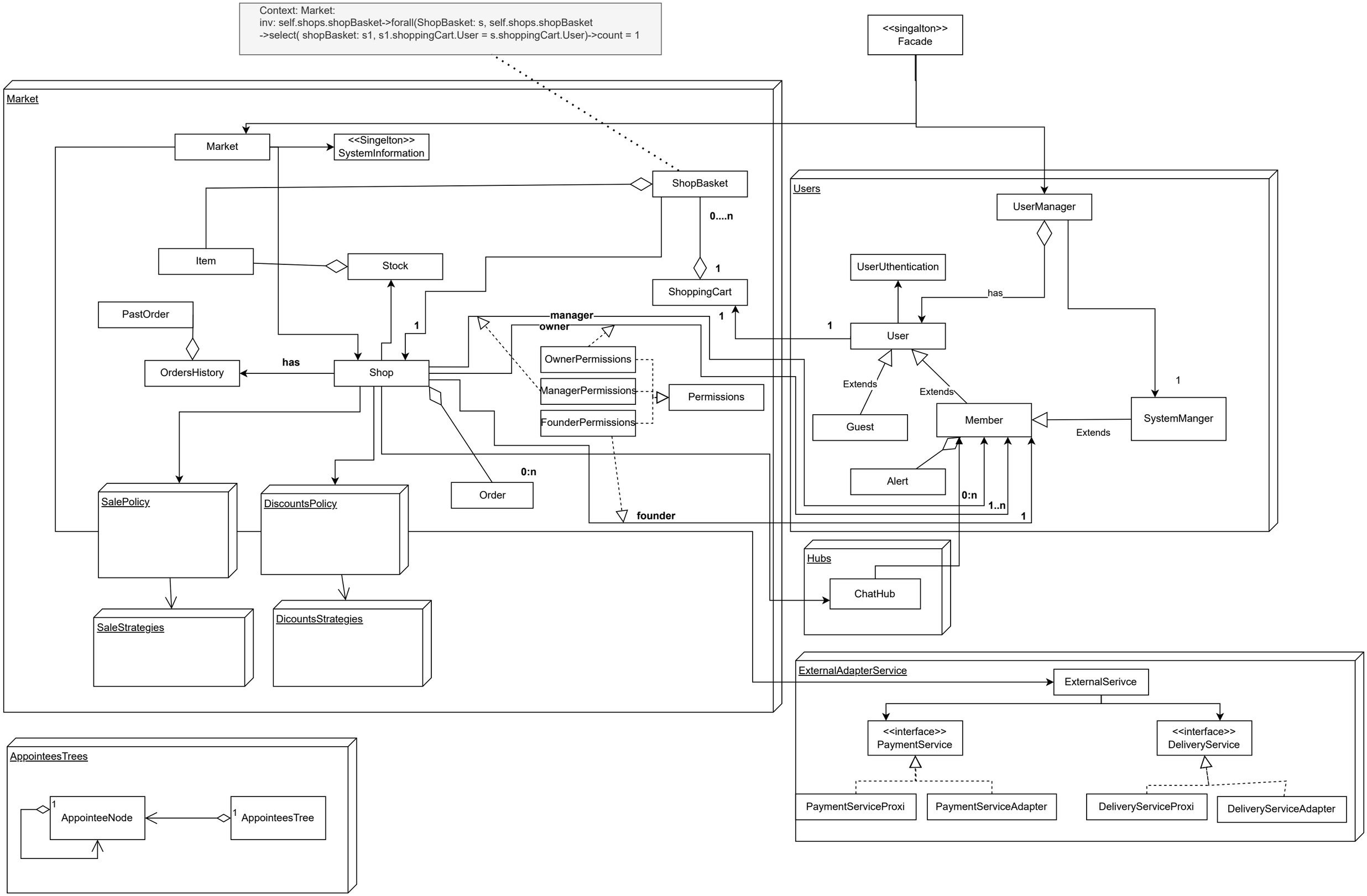
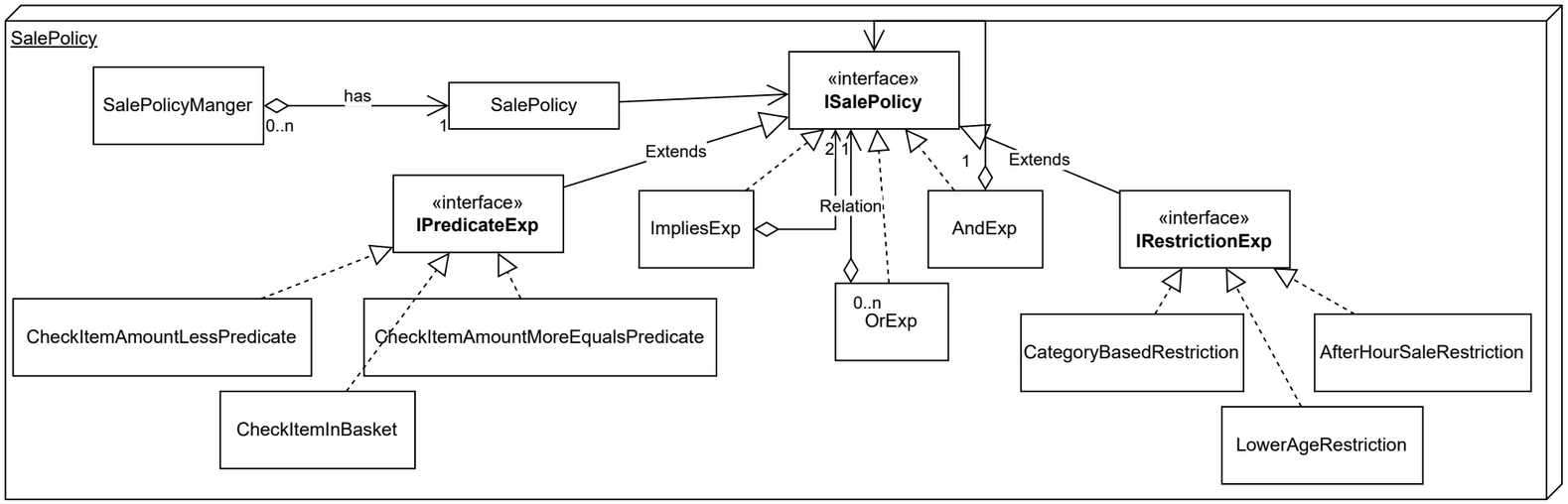
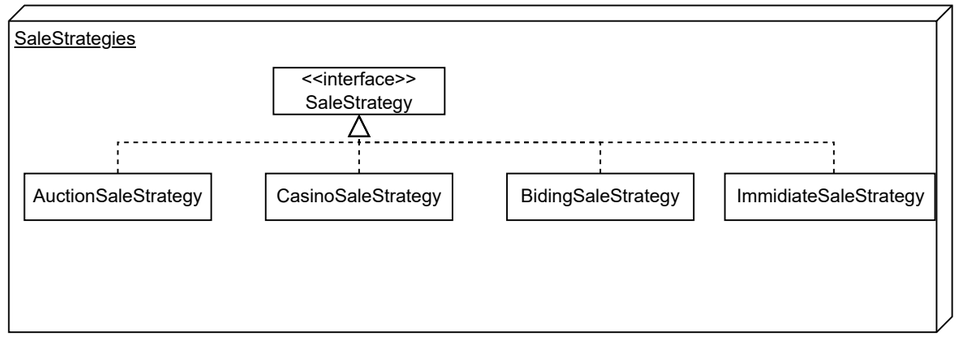
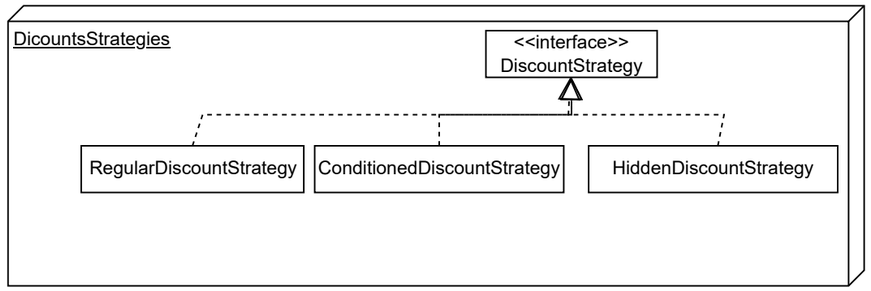
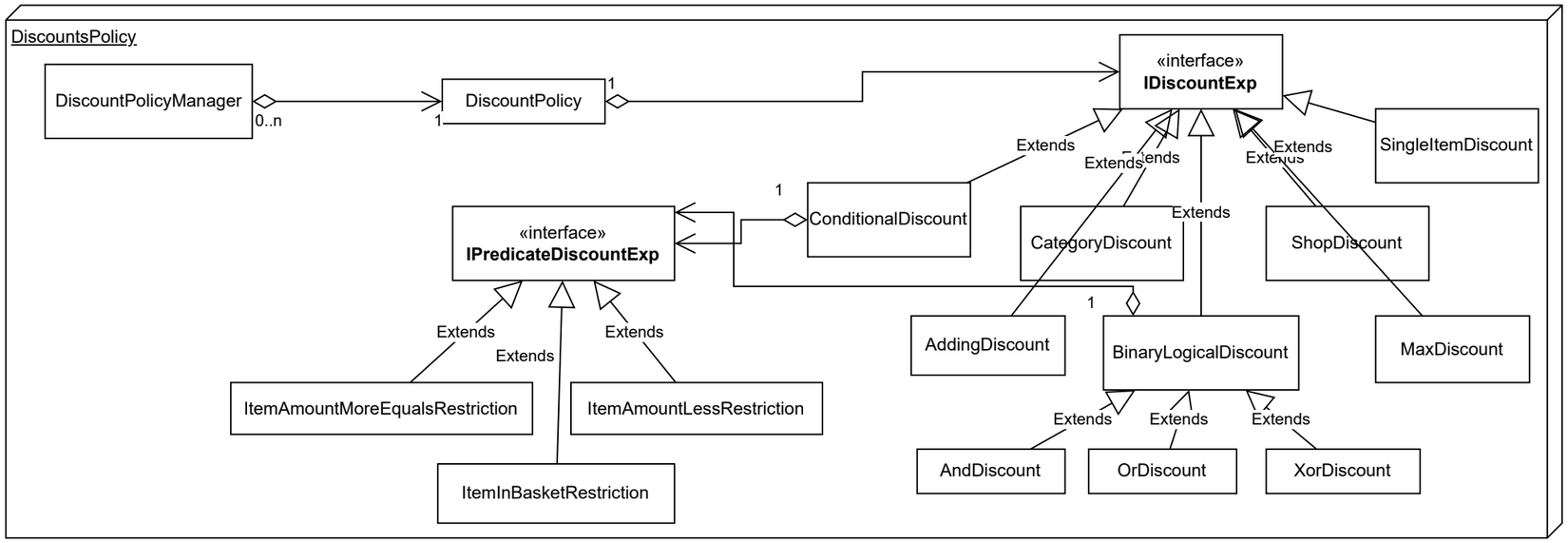
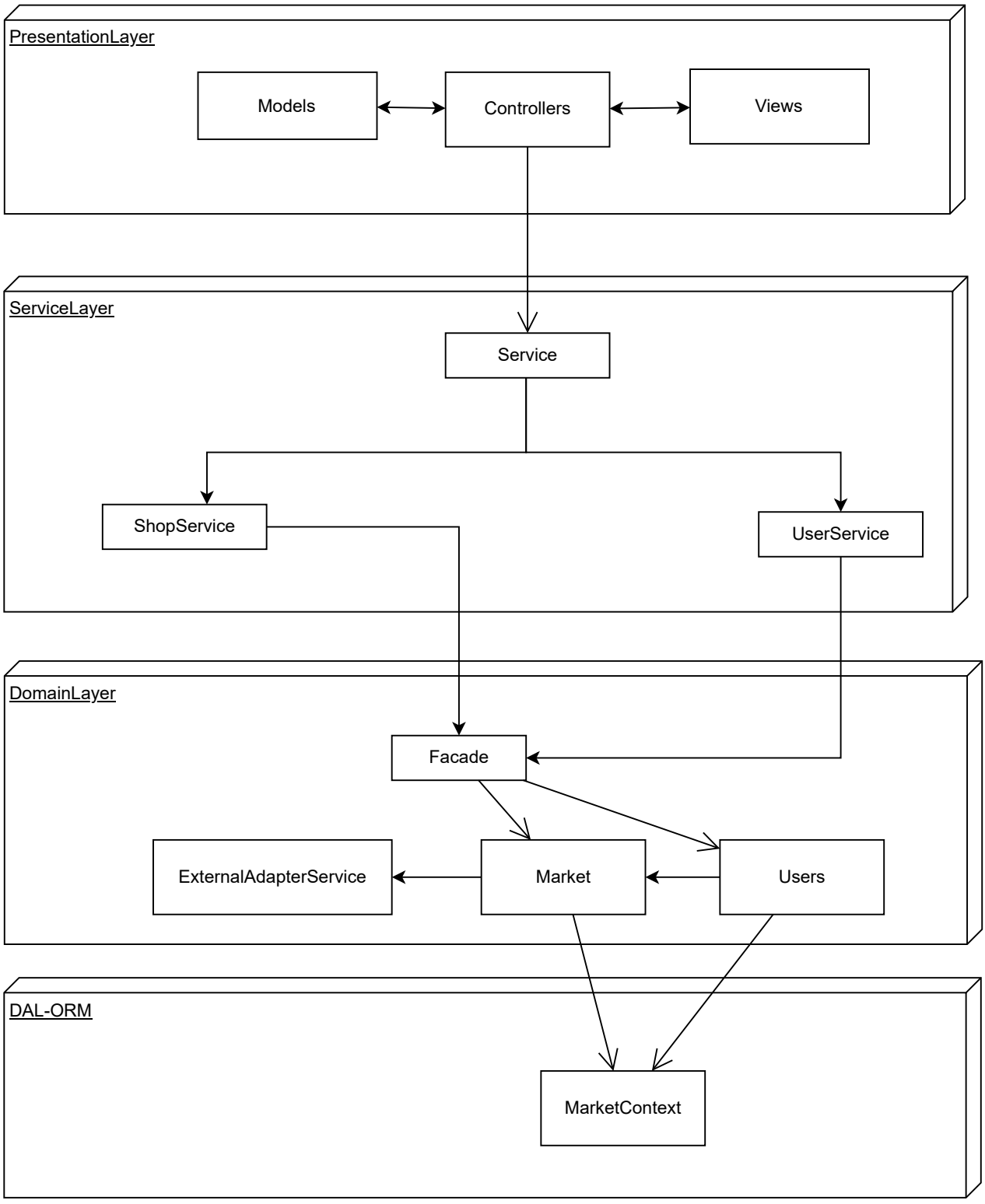

Context: Market:
inv: self.shops.shopBasket->forall(ShopBasket: s, self.shops.shopBasket
->select(shopBasket: s1, s1.shoppingCart.User = s.shoppingCart.User)->count = 1
<<singalton>>
Facade
Market
Market
<<Singelton>>
SystemInformation
ShopBasket
0....n
1
ShoppingCart
Item
Stock
PastOrder
OrdersHistory
has
Shop
1
manager
owner
OwnerPermissions
ManagerPermissions
FounderPermissions
Permissions
0:n
Order
founder
SalePolicy
DiscountsPolicy
SaleStrategies
DicountsStrategies
Users
UserManager
UserUthentication
has
1
User
Extends
Extends
Guest
Member
Extends
SystemManger
1
Alert
0:n
1..n
1
Hubs
ChatHub
ExternalAdapterService
ExternalSerivce
<<interface>>
PaymentService
<<interface>>
DeliveryService
PaymentServiceProxi
PaymentServiceAdapter
DeliveryServiceProxi
DeliveryServiceAdapter
AppointeesTrees
1
AppointeeNode
1
AppointeesTree


SalePolicy
SalePolicyManger
has
0..n
1
SalePolicy
«interface»
ISalePolicy
Extends
«interface»
IPredicateExp
ImpliesExp
2
1
Relation
AndExp
1
Extends
«interface»
IRestrictionExp
0..n
OrExp
CheckItemAmountLessPredicate
CheckItemAmountMoreEqualsPredicate
CheckItemInBasket
CategoryBasedRestriction
AfterHourSaleRestriction
LowerAgeRestriction


SaleStrategies
<<interface>>
SaleStrategy
AuctionSaleStrategy
CasinoSaleStrategy
BidingSaleStrategy
ImmidiateSaleStrategy


DicountsStrategies
<<interface>>
DiscountStrategy
RegularDiscountStrategy
ConditionedDiscountStrategy
HiddenDiscountStrategy


DiscountsPolicy
DiscountPolicyManager
0..n
1
DiscountPolicy
1
«interface»
IDiscountExp
Extends
Extends
Extends
Extends
SingleItemDiscount
1
ConditionalDiscount
«interface»
IPredicateDiscountExp
CategoryDiscount
Extends
ShopDiscount
1
Extends
Extends
Extends
AddingDiscount
BinaryLogicalDiscount
MaxDiscount
ItemAmountMoreEqualsRestriction
ItemAmountLessRestriction
Extends
Extends
Extends
AndDiscount
OrDiscount
XorDiscount
ItemInBasketRestriction


PresentationLayer
Models
Controllers
Views
ServiceLayer
Service
ShopService
UserService
DomainLayer
Facade
ExternalAdapterService
Market
Users
DAL-ORM
MarketContext