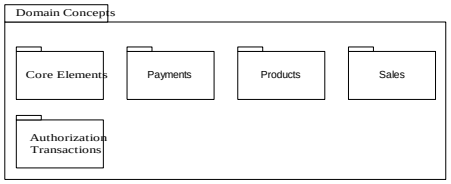
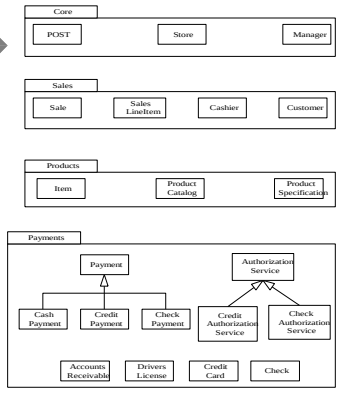
Packages in POST

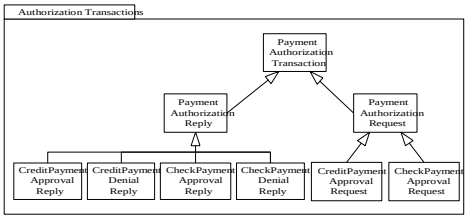


1



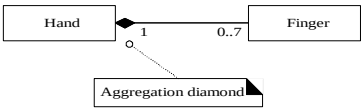
2

Package Contents of POST



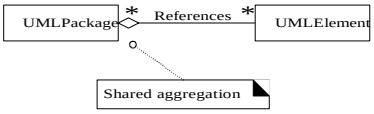
3

Composite Aggregation in UML



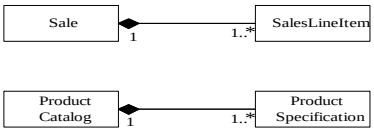
4

Shared Aggregation in UML

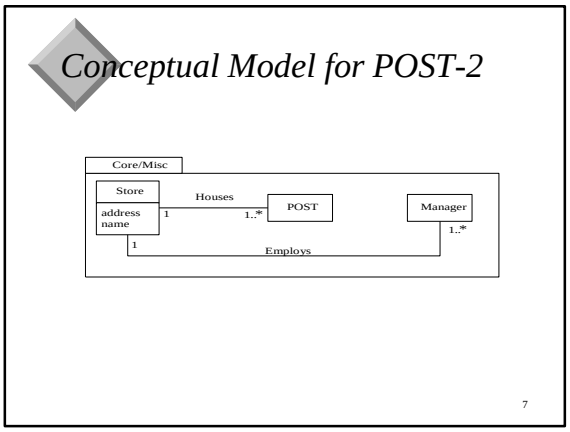


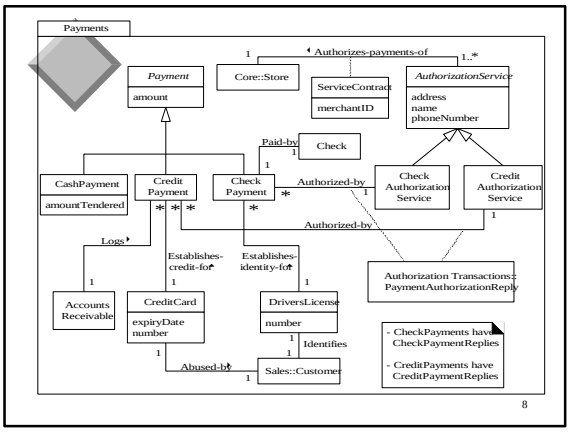
5

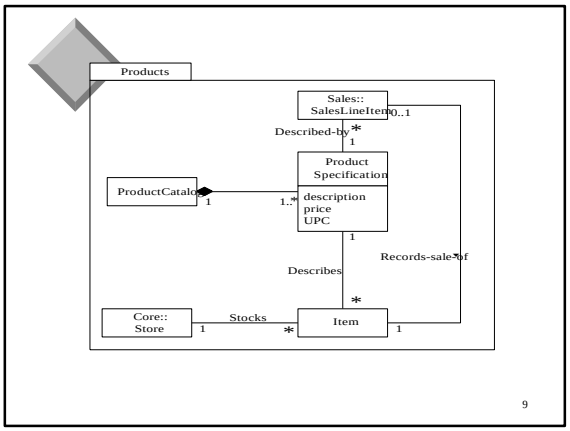
Aggregation in POST

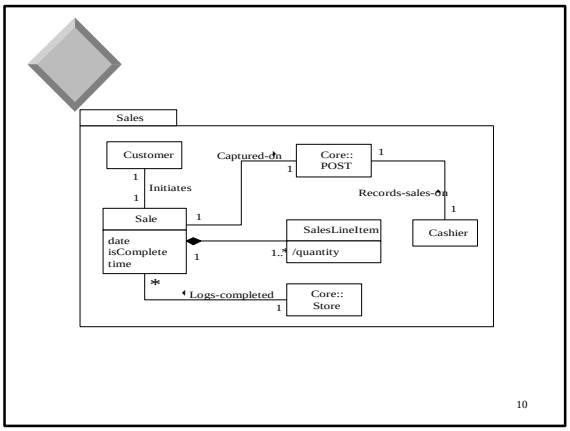


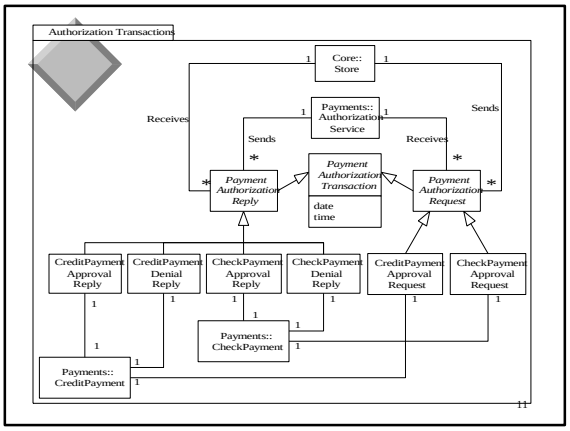
6

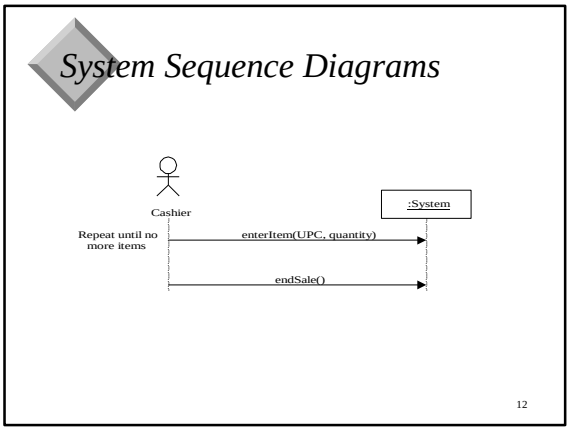

Conceptual Model for POST-2
Core/Misc
Store
address
name
Houses
POST
Manager
Employs
7


Payments
Authorizes-payments-of
Payment
amount
Core::Store
ServiceContract
merchantID
AuthorizationService
address
name
phoneNumber
Paid-by
Check
CashPayment
amountTendered
Credit Payment
Check Payment
Authorized-by
Check Authorization Service
Credit Authorization Service
Logs
Establishes-credit-for
Establishes-identity-for
Authorization Transactions::PaymentAuthorizationReply
Accounts Receivable
CreditCard
expiryDate
number
DriversLicense
number
Identifies
Abused-by
Sales::Customer
- CheckPayments have CheckPaymentReplies
- CreditPayments have CreditPaymentReplies
8

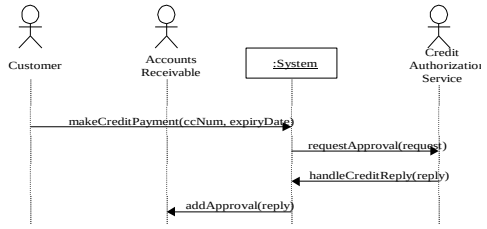

Products
Sales::SalesLineItem
Described-by
Product Specification
description
price
UPC
ProductCatalog
Records-sale-of
Describes
Core::Store
Stocks
Item
9


Sales
Customer
Captured-on
Core::POST
Initiates
Records-sales-on
Sale
date
isComplete
time
SalesLineItem
/quantity
Cashier
Logs-completed
Core::Store
10


Authorization Transactions
Core::Store
Receives
Payments::Authorization Service
Sends
Payment Authorization Reply
Payment Authorization Transaction
date
time
Payment Authorization Request
CreditPayment Approval Reply
CreditPayment Denial Reply
CheckPayment Approval Reply
CheckPayment Denial Reply
CreditPayment Approval Request
CheckPayment Approval Request
Payments::CheckPayment
Payments::CreditPayment
11

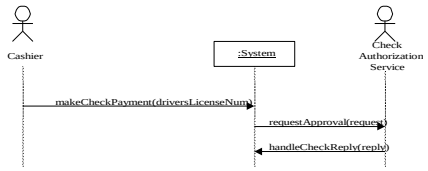

System Sequence Diagrams
Cashier
:System
Repeat until no more items
enterItem(UPC, quantity)
endSale()
12

Credit Payment



13

Check Payment



14

15