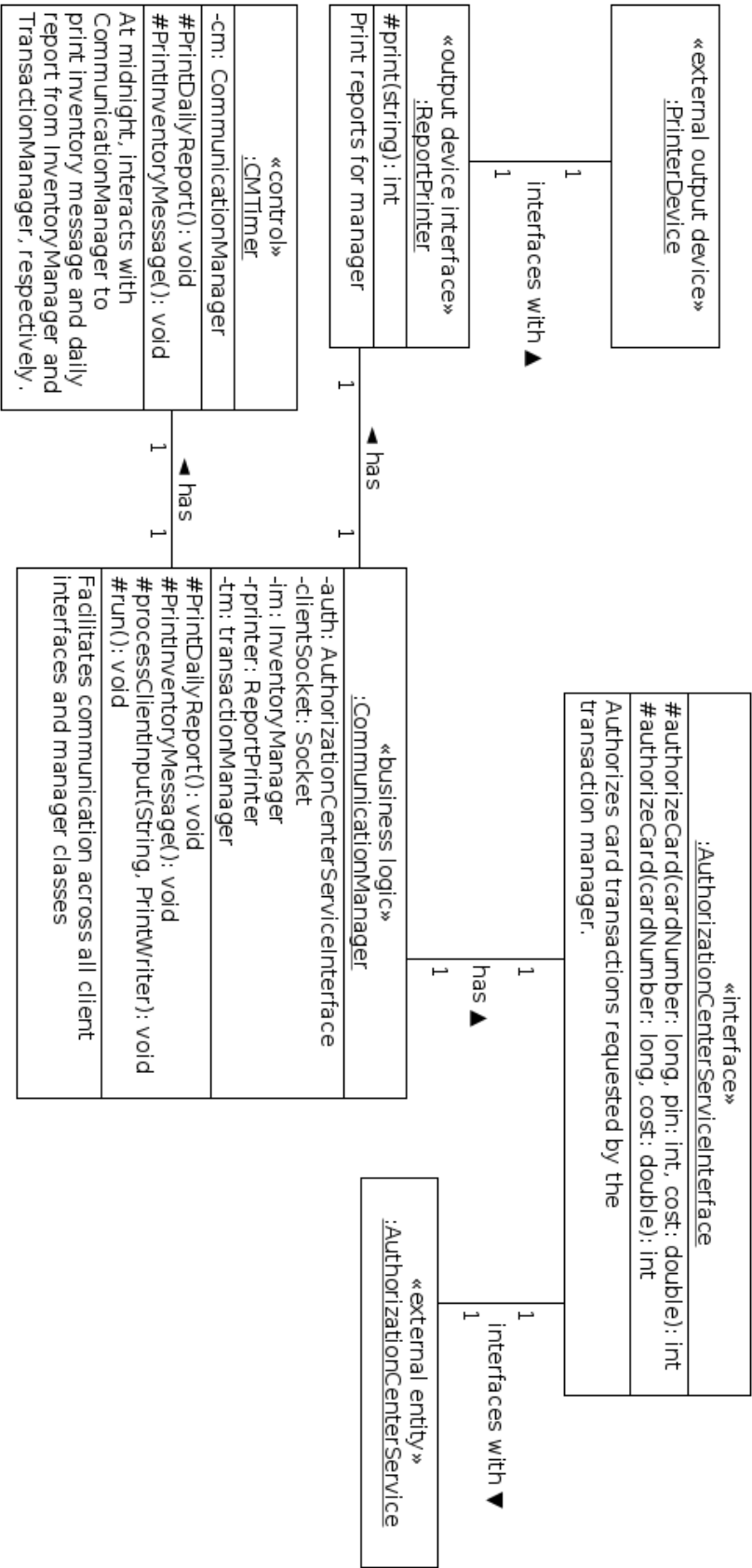
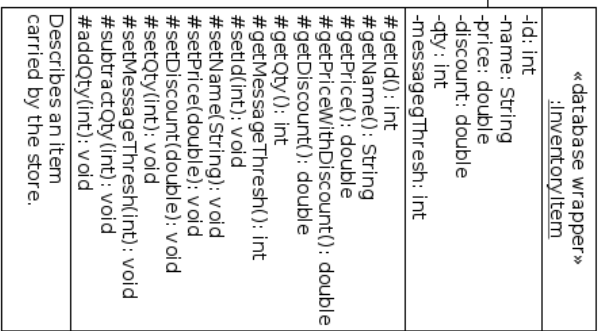
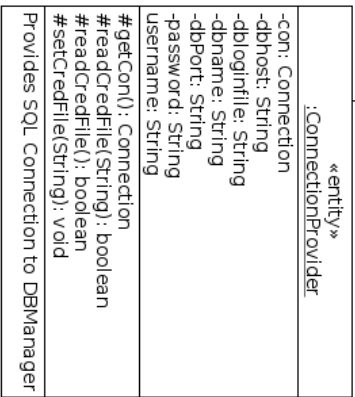
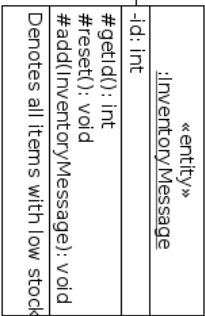
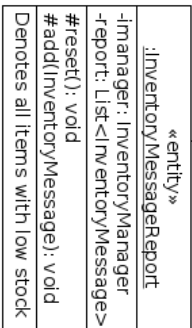
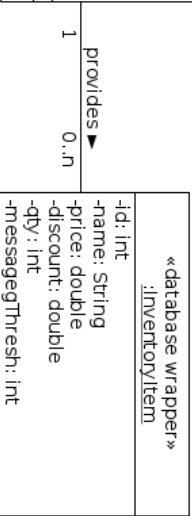
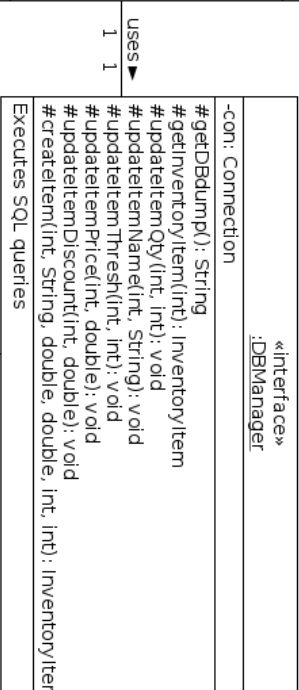
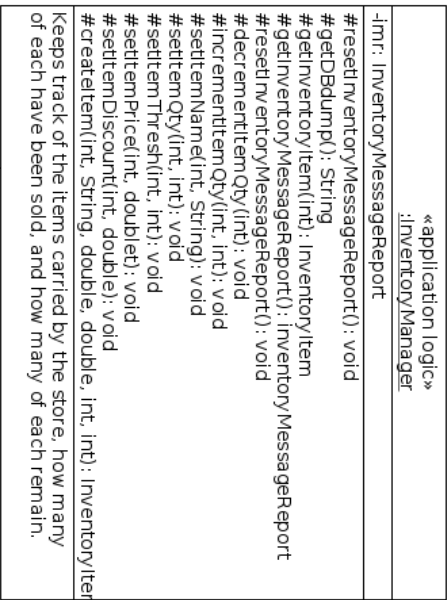


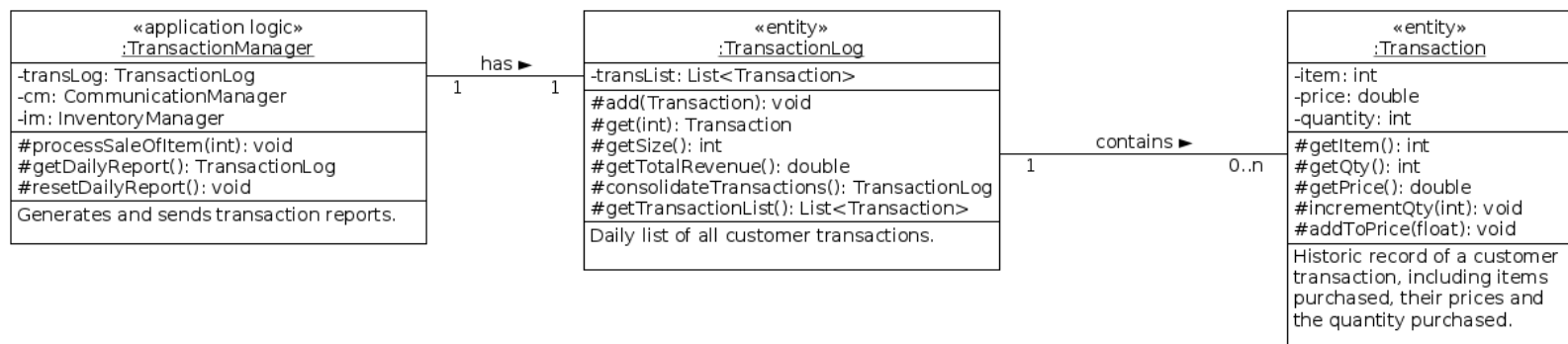
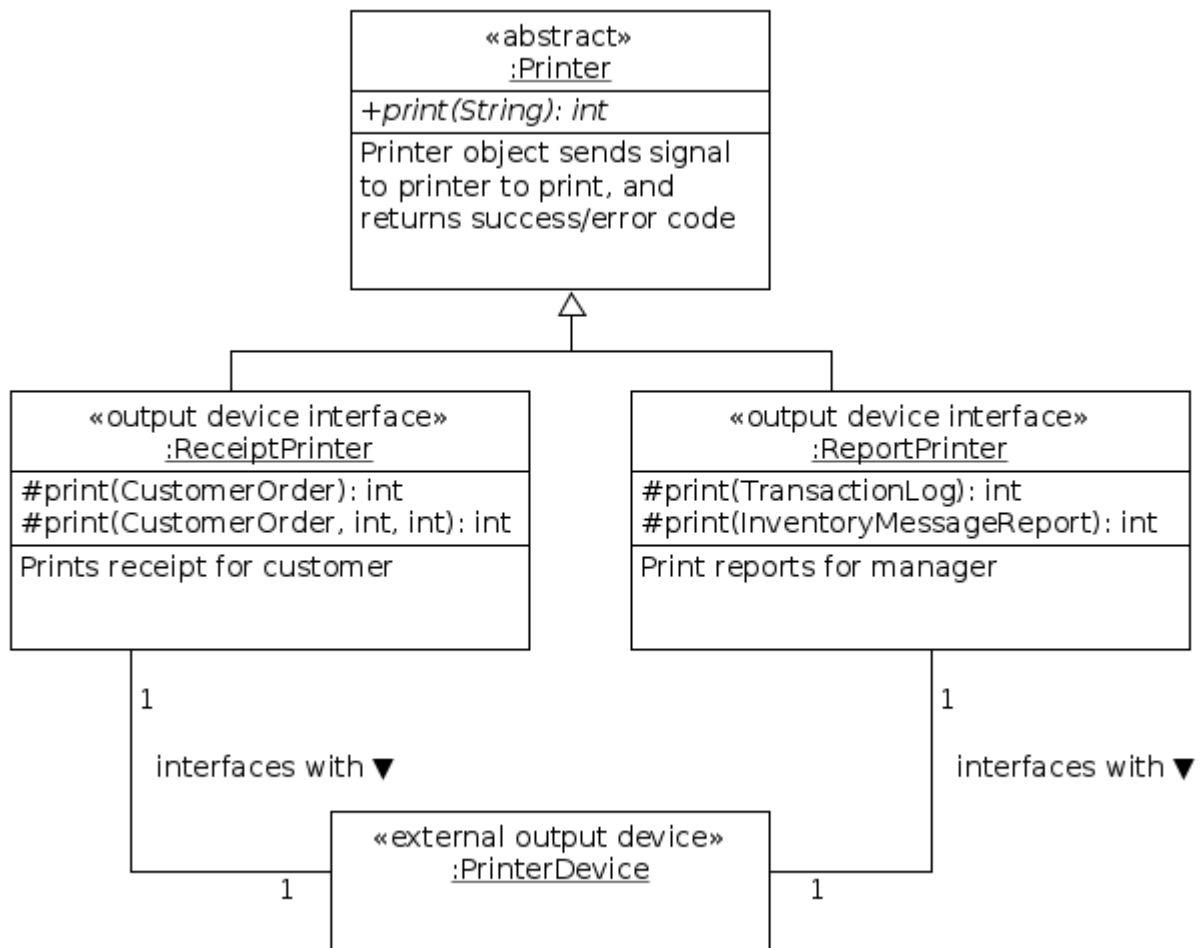
December Report

Static Models



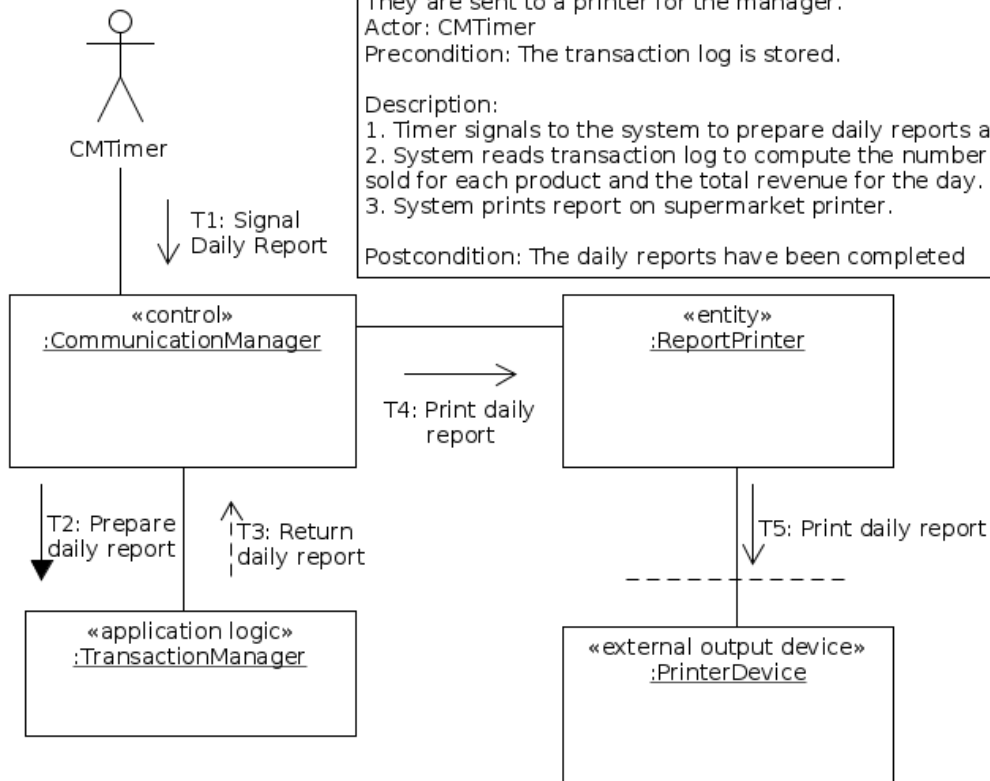


Relation in relational database:
-Inventory (_id, ItemName, Price,
Discount, Qty, Threshold)

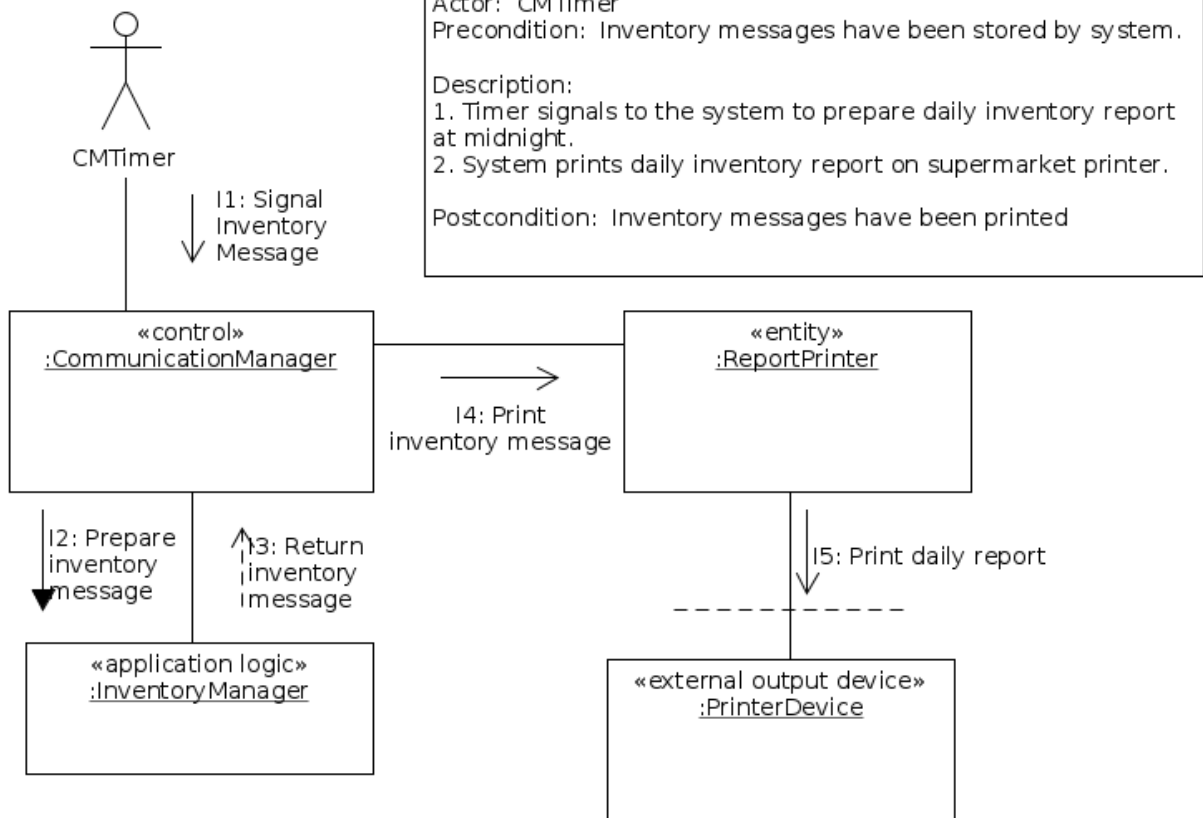


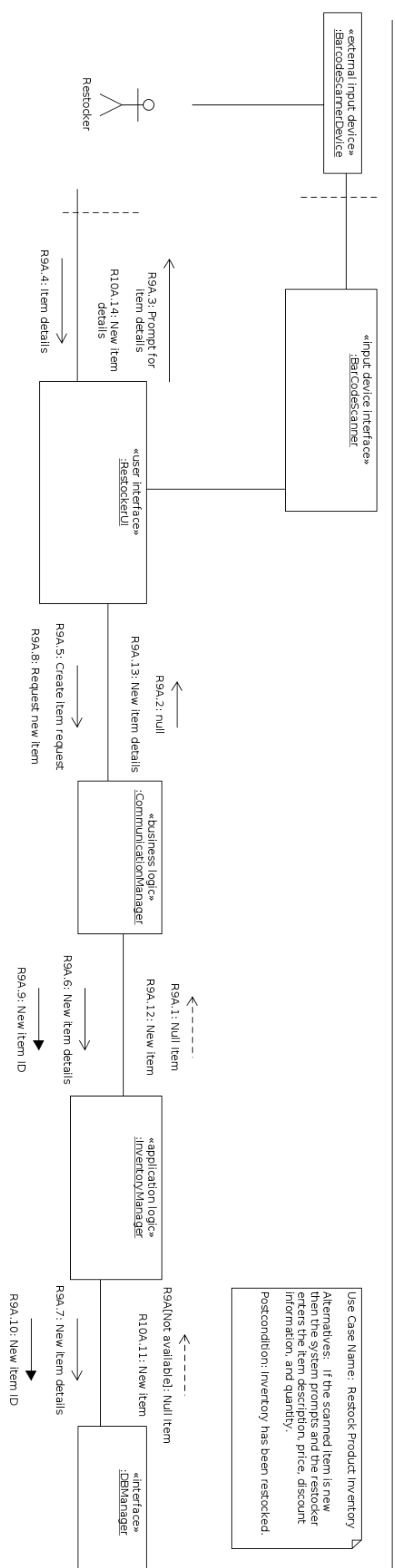
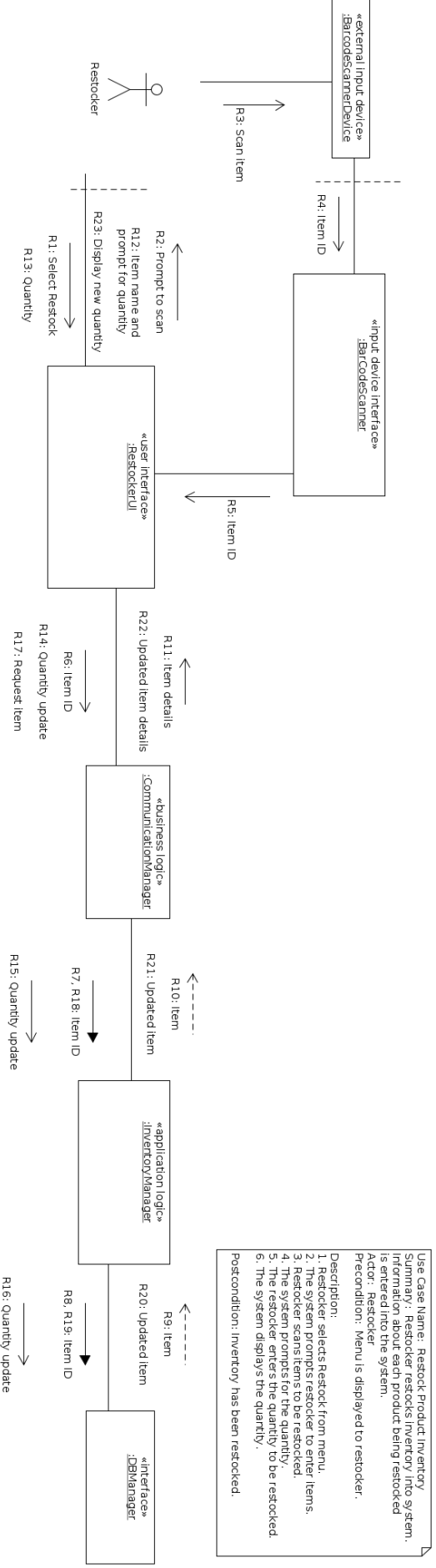
Dynamic Models

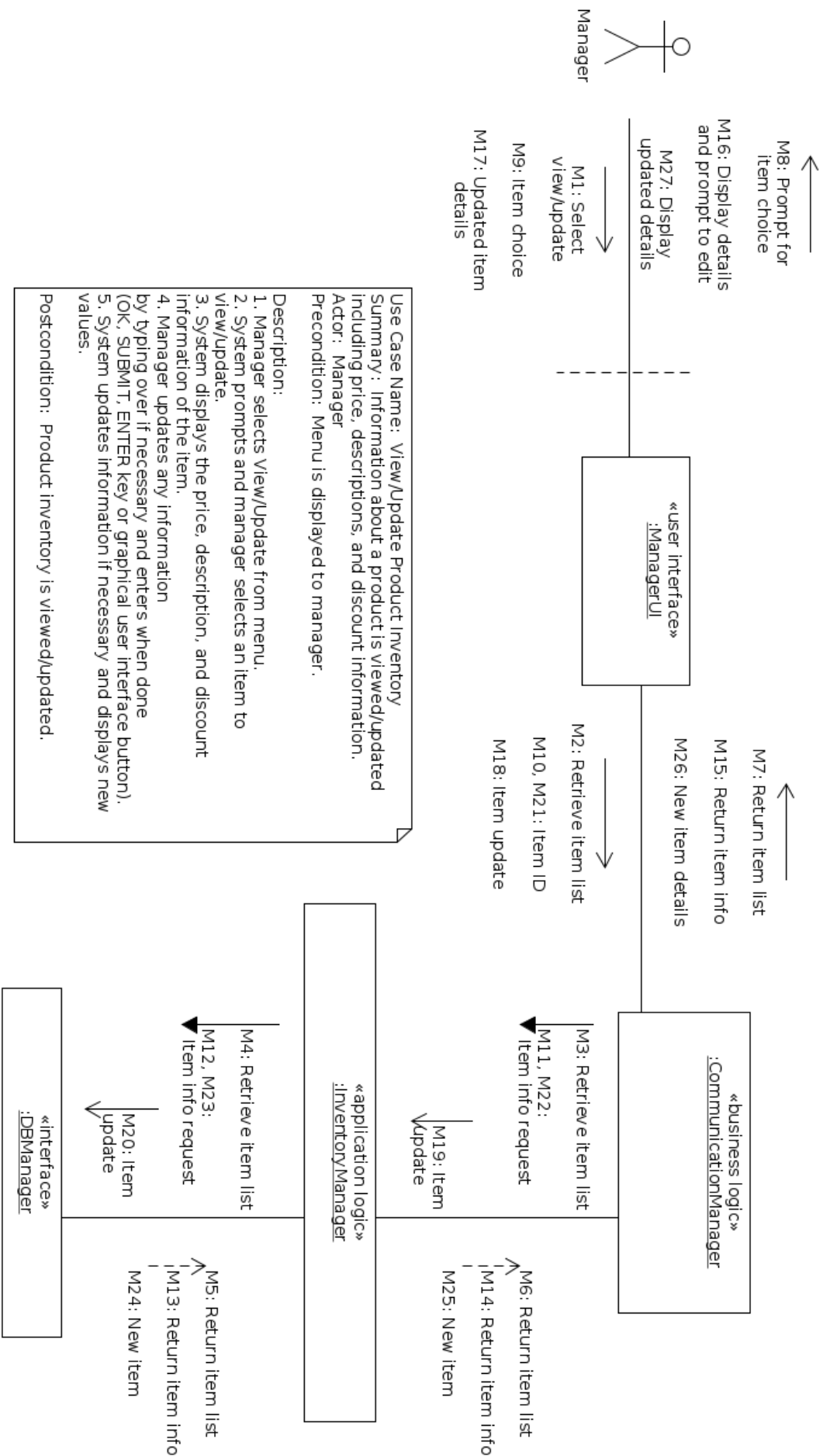
Print Daily Report Use Case

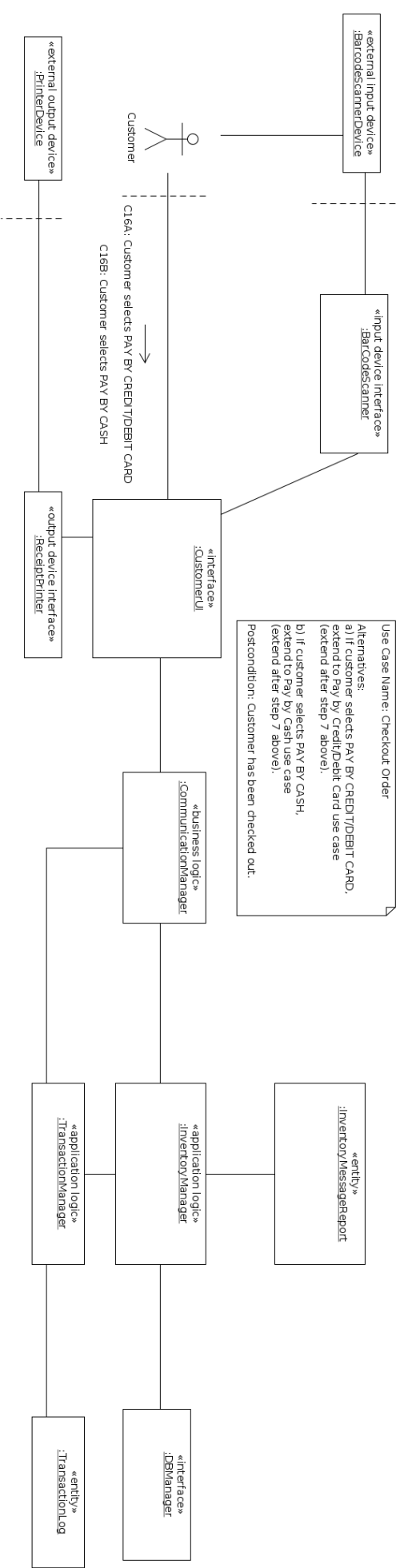
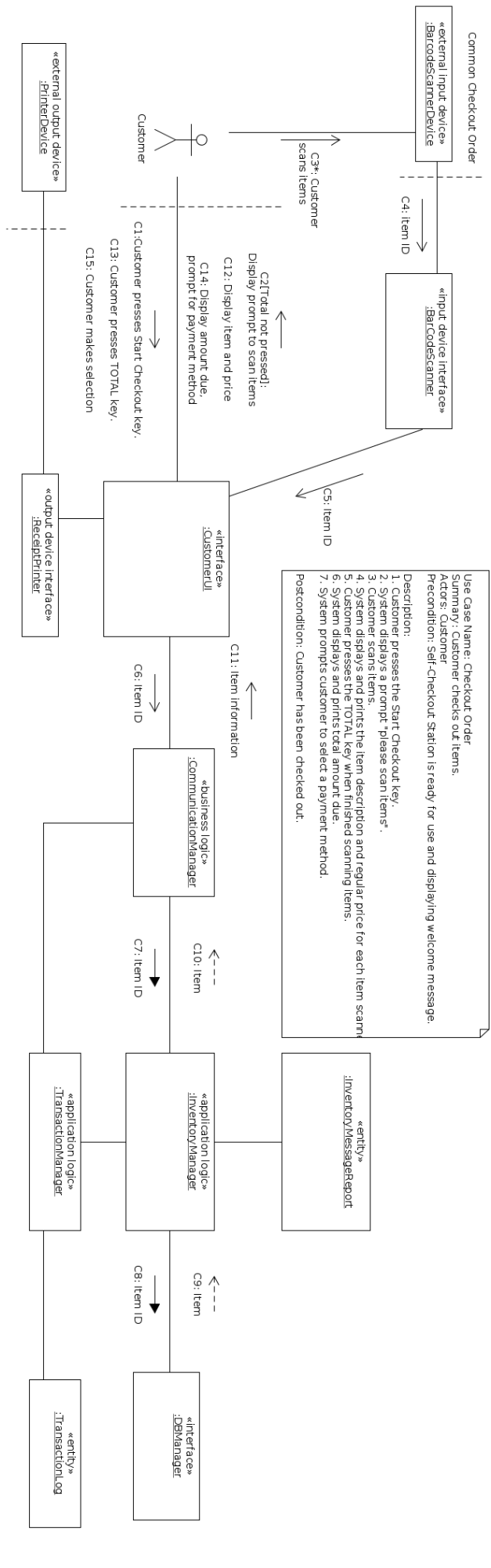


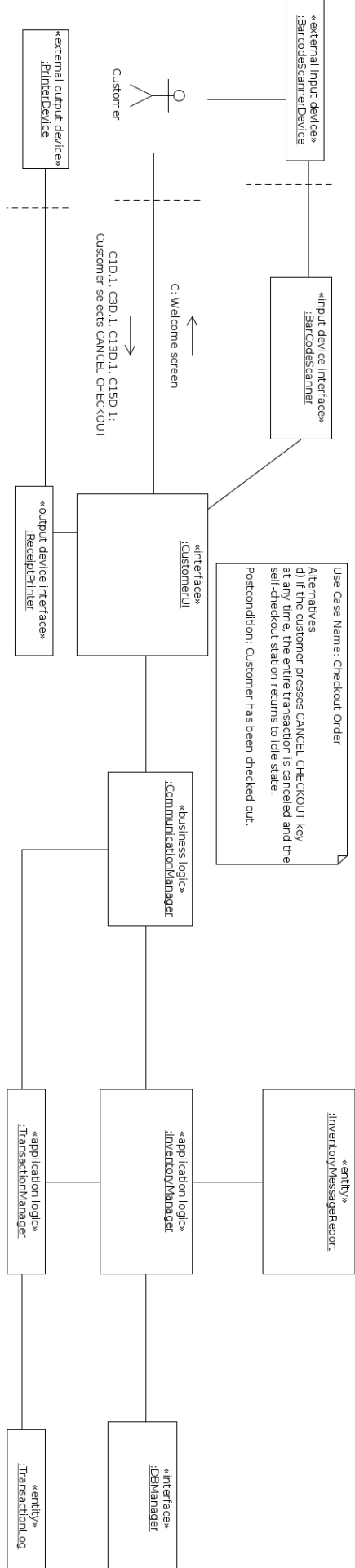
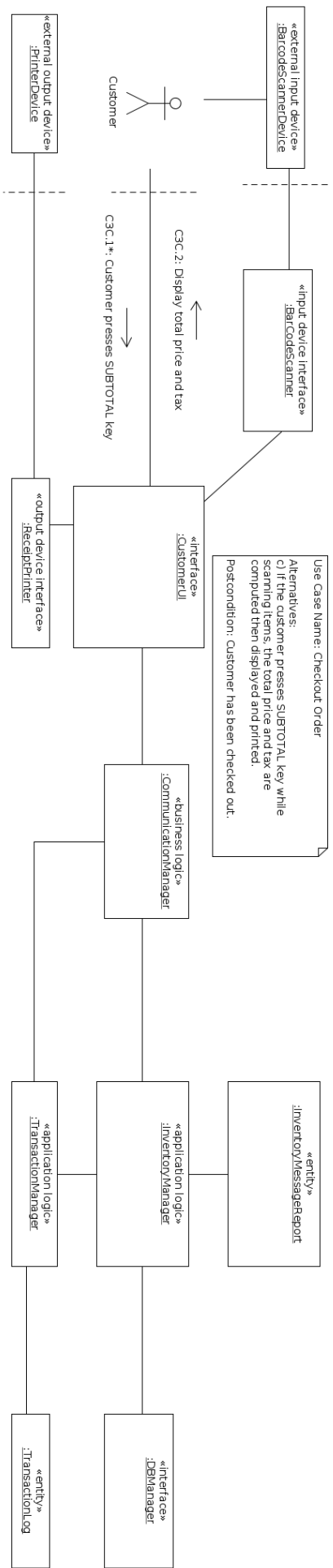
Print Inventory Message Use Case

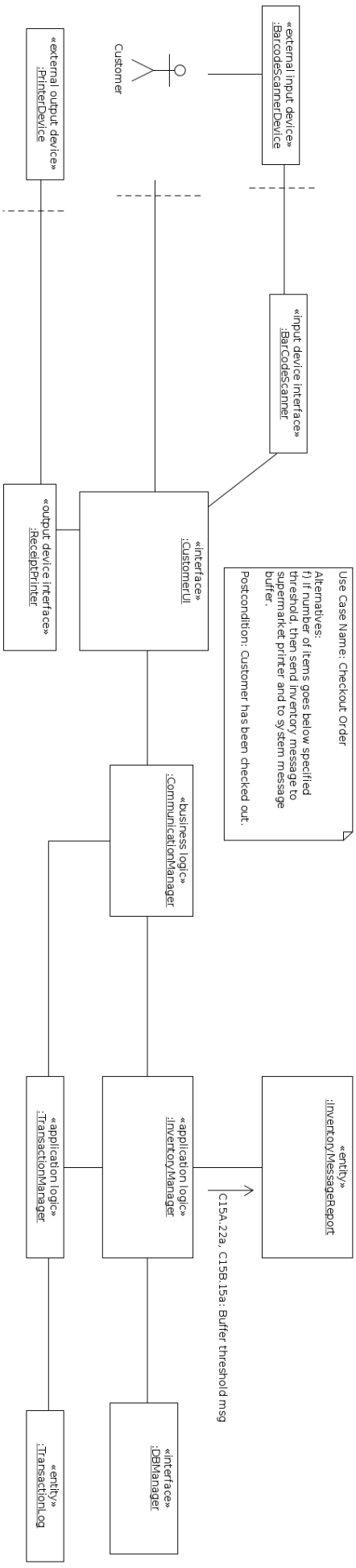
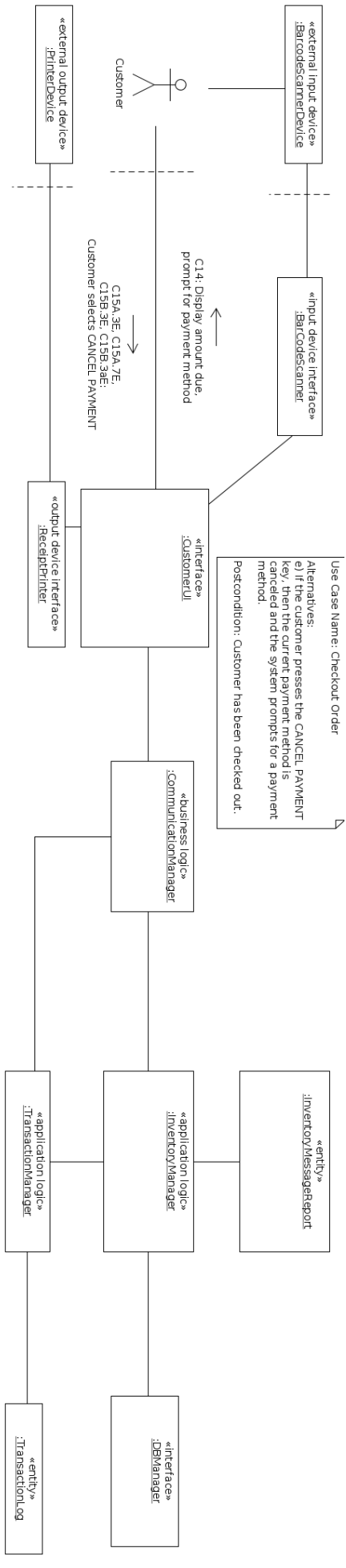


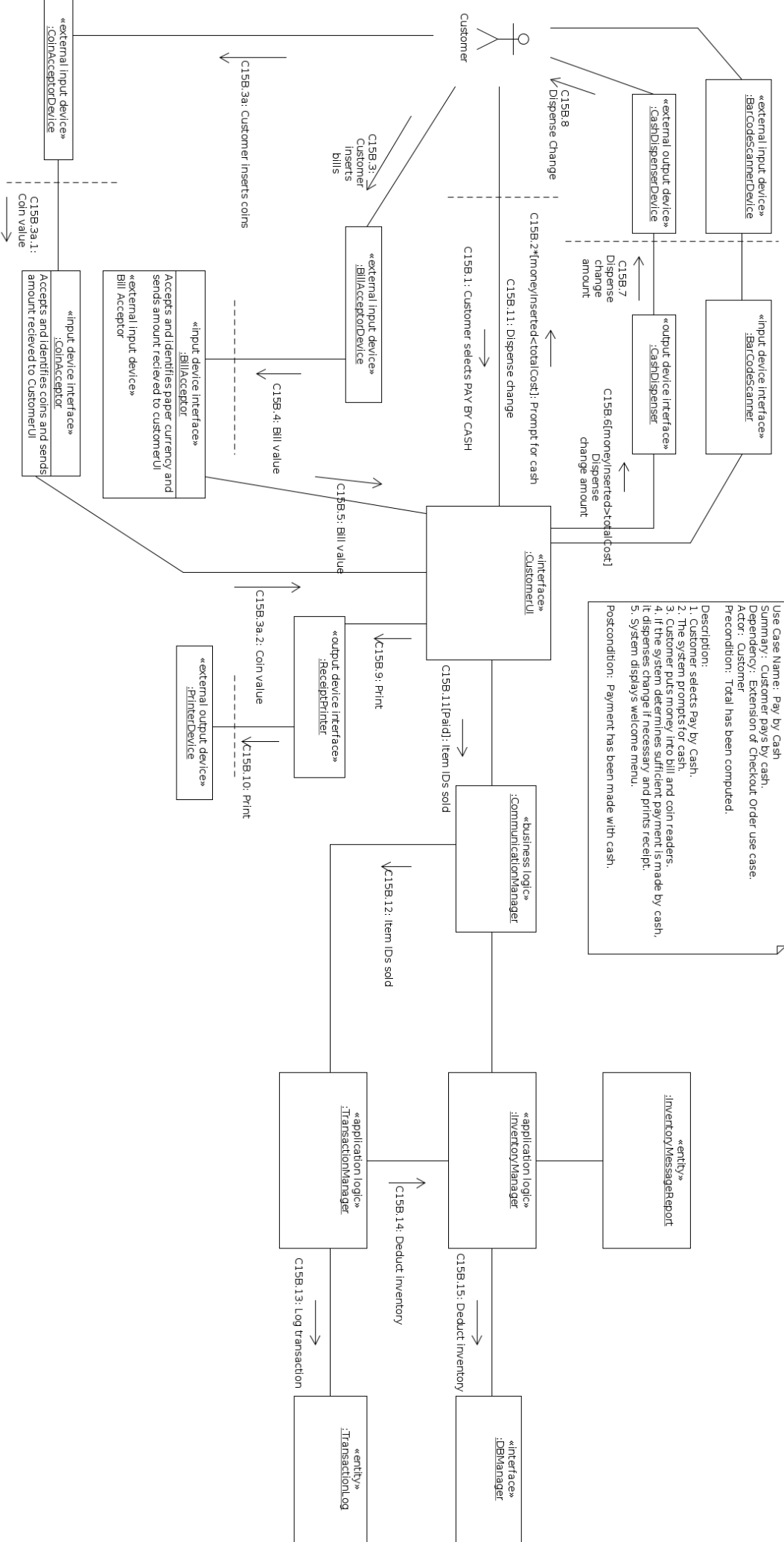












Pay by Debit Card
(Approved)

Use Case Name: Pay by Credit/Debit Card
Summary: Customer pays with credit/debit card authorized by Authori
Dependency: Extension of Checkout Order use case.
Actor: Customer, Authorization Center
Precondition: Total has been computed.

«external entity»
:AuthorizationCenterService

Description:
1. Customer selects pay by Credit/Debit card.
2. System reads the card.
3. If the card is a debit card, the system prompts for PIN. Customer en
4. System sends message containing customer information to the app
Center.
5. If accepted, the Authorization Center returns an authorization code
6. System prints last four digits of card number and authorization code
7. Customer receives their package of a receipt on the card reader device.

«interface»
:AuthorizationCenterServiceInterface

C15A.12
Request
authorization

C15A.13(Authorized):
Auth number

«entity»
InventoryMessageReport

C15A.11
Request
authorization

C15A.14: Auth number

«interface»
:DBManager

C15A.22: Deduct inventory

«application logic»
:InventoryManager

C15A.21: Deduct inventory

«application logic»
:TransactionManager

C15A.20: Log transaction

«entity»
:TransactionLog

C15A.19: Item IDs sold

«business logic»
:CommunicationManager

C15A.10: Send card info
C15A.18(Paid): Item IDs sold

C15A.16: Receipt info

«output device interface»
:ReceiptPrinter

C15A.17: Print

«external output device»
:PrinterDevice

C15A.9: Sends PIN #

«input device interface»
:CardReader

C15A.4: card details

«external input device»
:PinpadDevice

C15.A8: PIN

C15A.2(Paid card): Prompt for pin
C15A.6: Prompt for pin

«input device interface»
:BarCodeScanner

«external input device»
:BarCodeScannerDevice

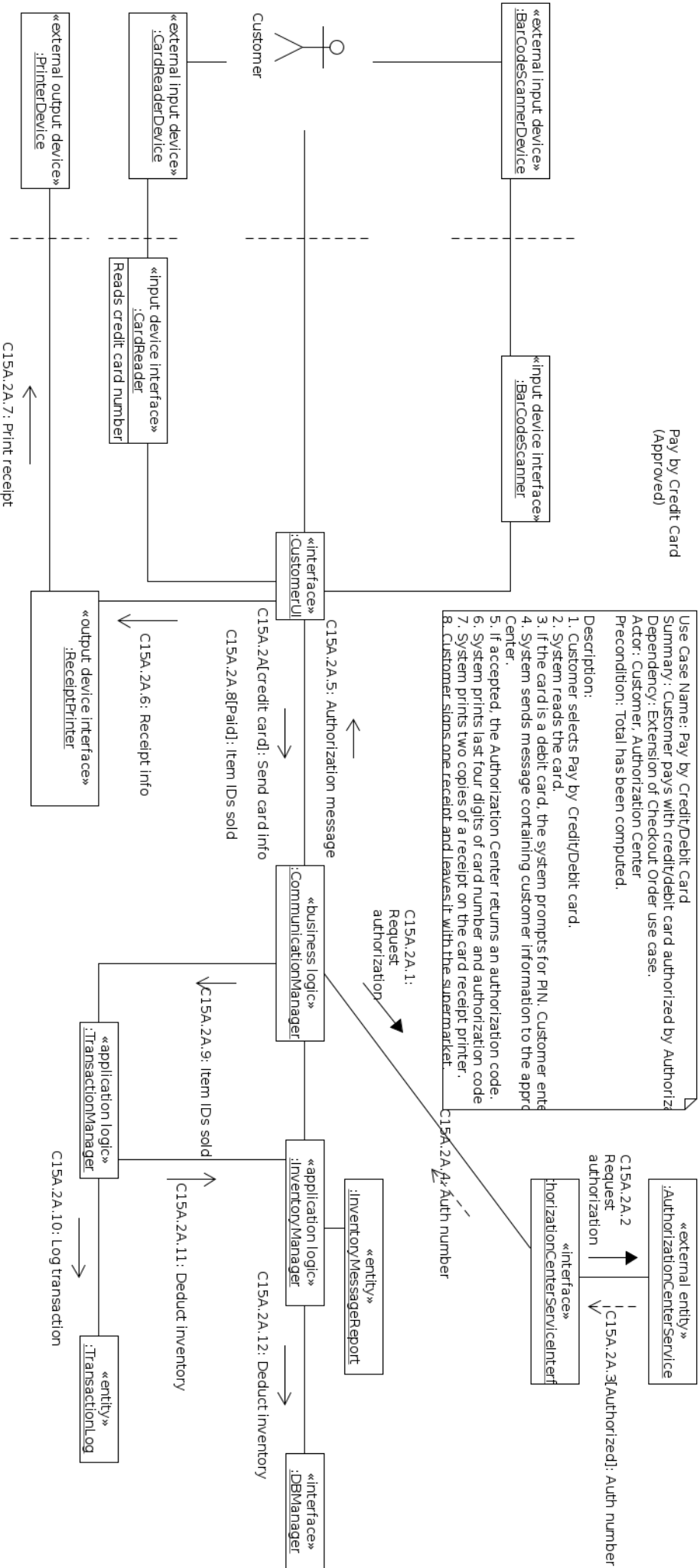
Customer

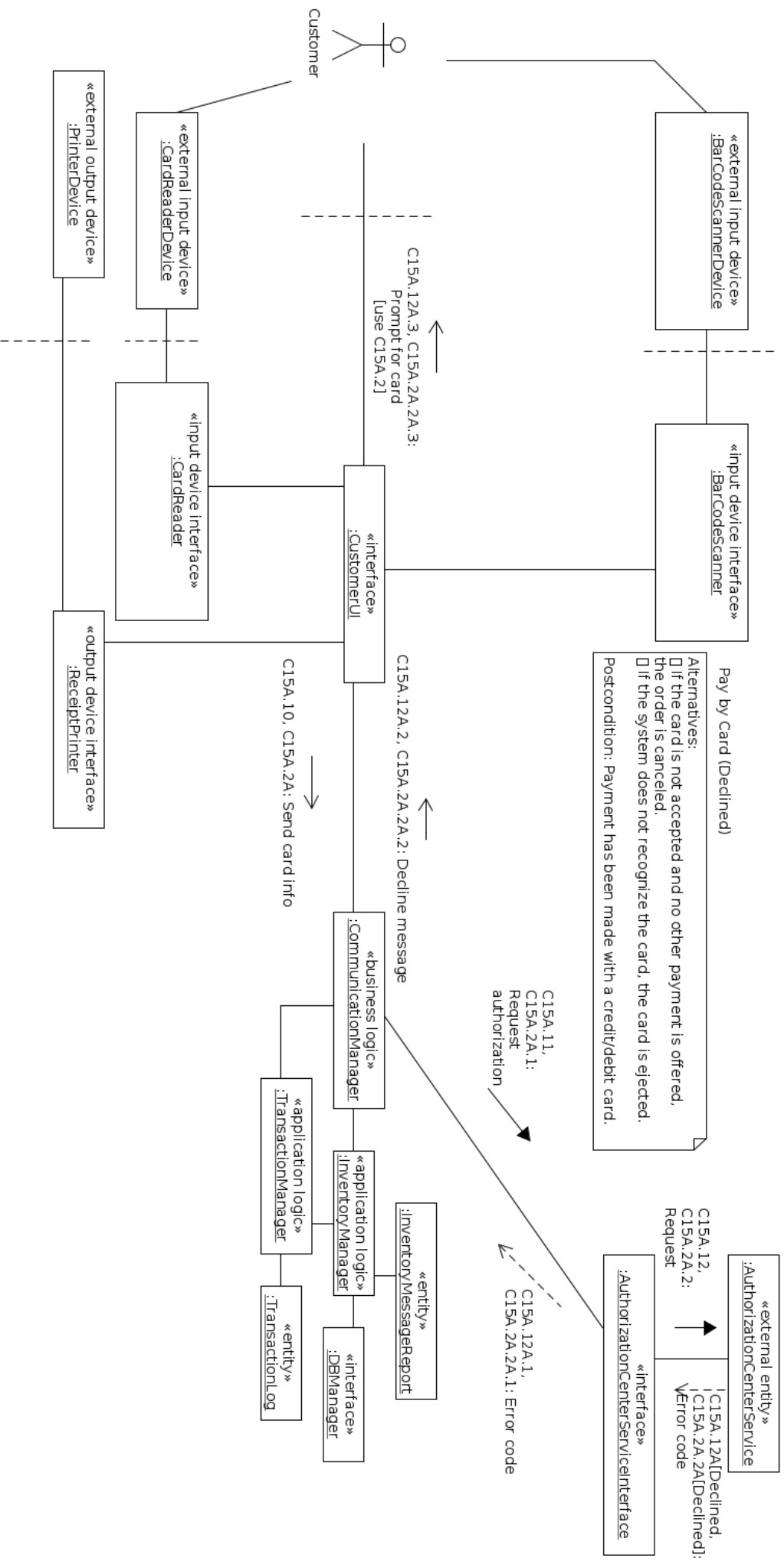
C15A.1: Customer selects PAY BY CARD

C15A.3: Customer inserts a card

«external input device»
:CardReaderDevice

C15A.7:
Customer
Inputs
PIN





Architectural Models

Software Architectural Model

