

ENGINEERING ONLINE

Lecture Notes

Course Number: CSC 513

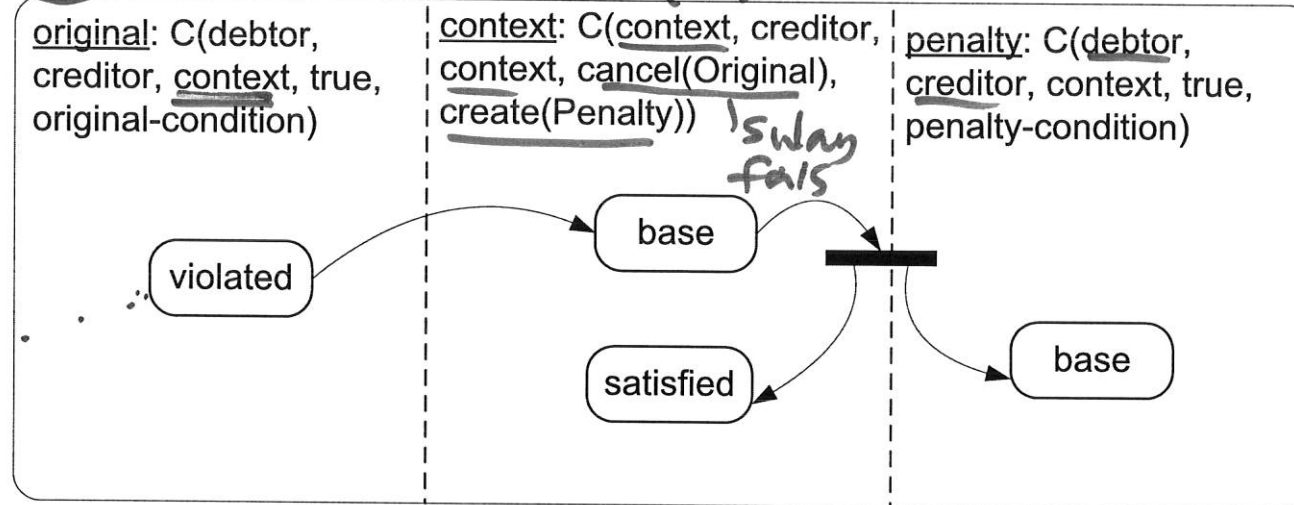
Instructor: Dr. Singh

Lecture Number: 14

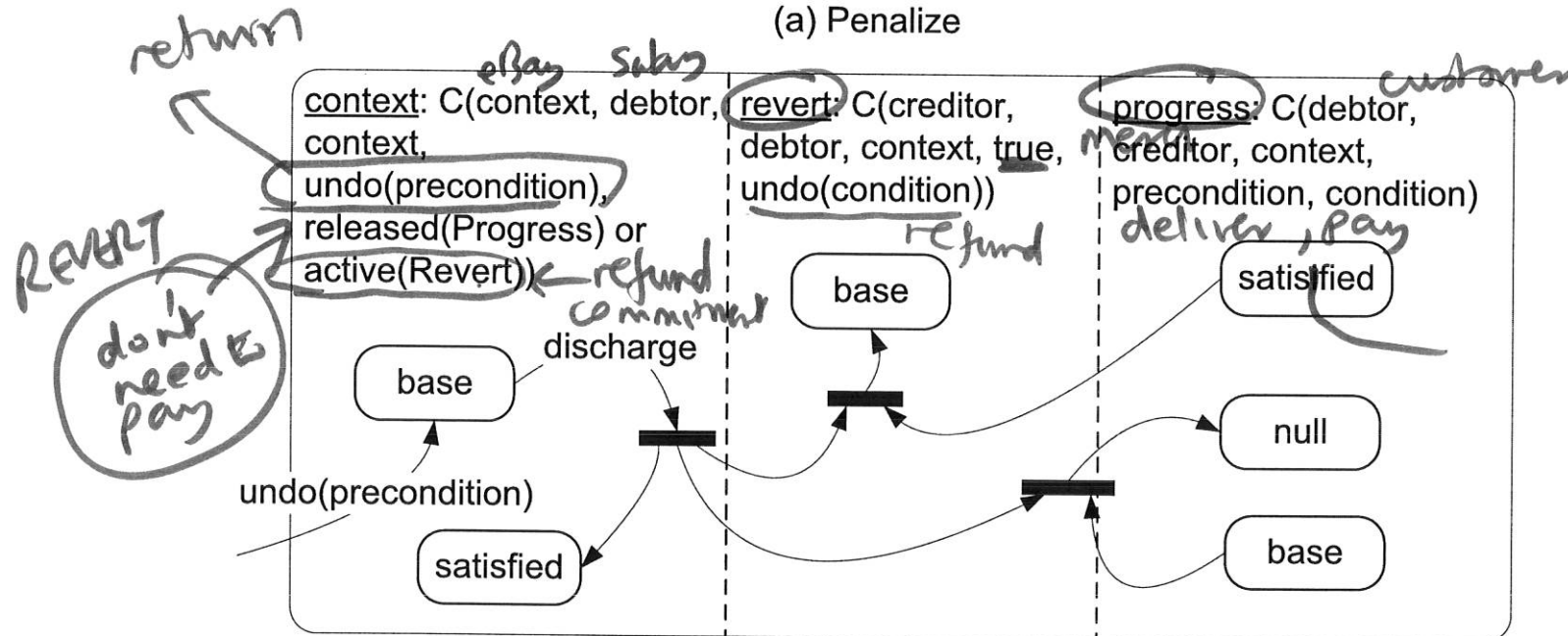


Contextual Patterns: Penalize and Revert

Introducing an Org explicitly as the context *ebay khien*



(a) Penalize

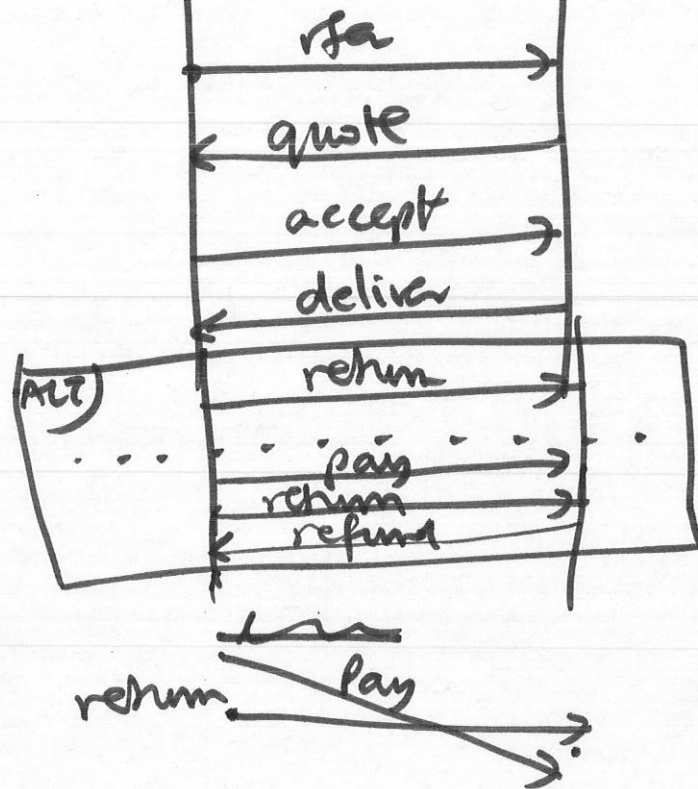


(b) Revert offer

BUY

Cust

Merch



Two cases:
(1) Payment not sent by Customer
(2) Payment sent but not yet processed by merchant



- Commitments as elements of business relationships (contractual)
- Define service engagements via commitments
- Repeating patterns
 - Create ← Transactional
 - Delegate (Escalate) ← Structural
 - Penalize } ← Contextual
 - Revert }

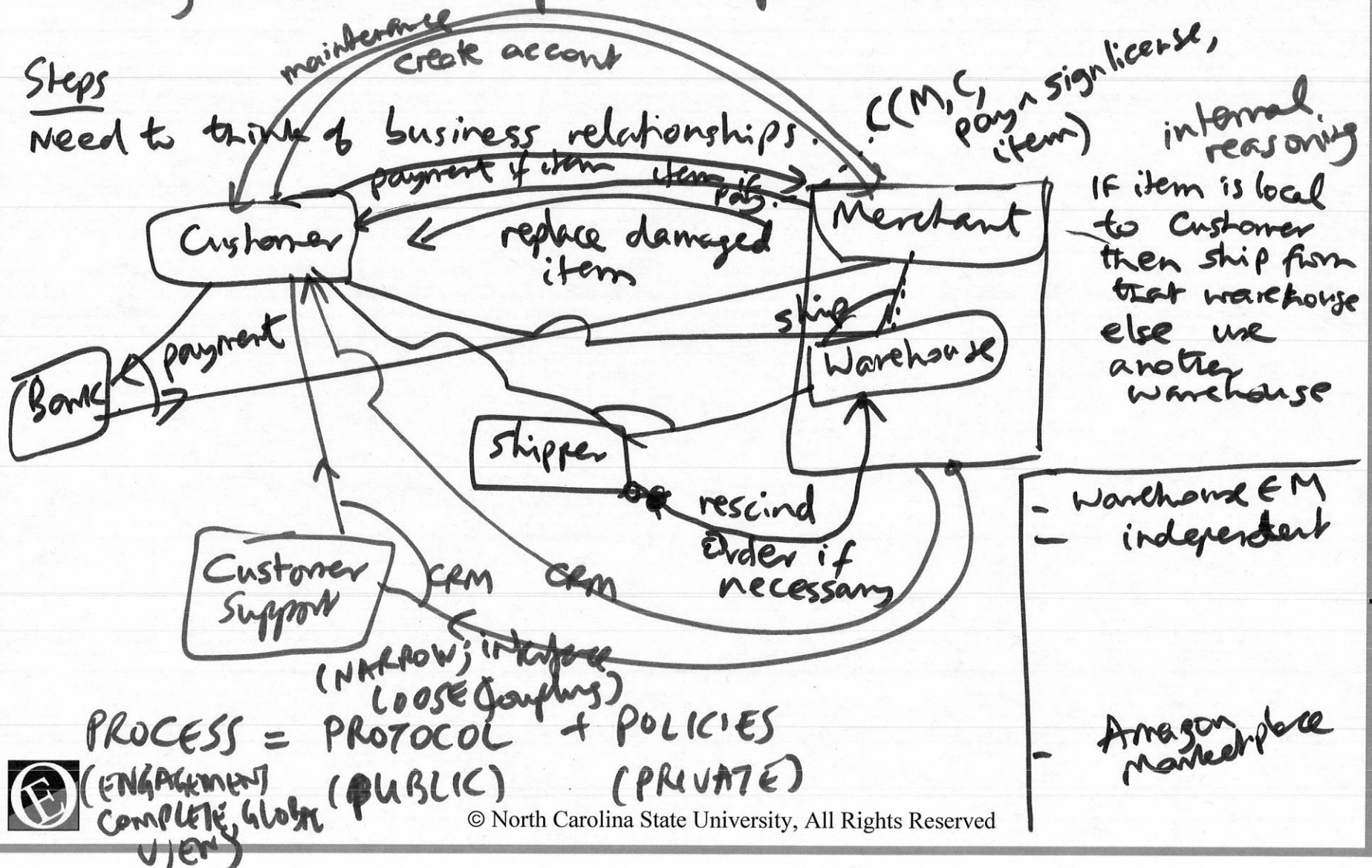


A Customer buys ~~son~~ an item from a Merchant

How can we describe the above engagement,
including additional important aspects besides the transaction?

Steps

Need to think of business relationships.



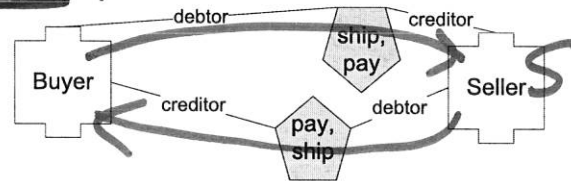
A Purchase Service Engagement

Demonstrates incremental specification as a form of stepwise refinement

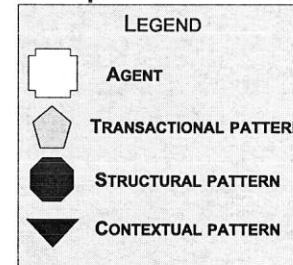
REQUIREMENT: Easy maintenance of the engagement

TRANSACTION

B



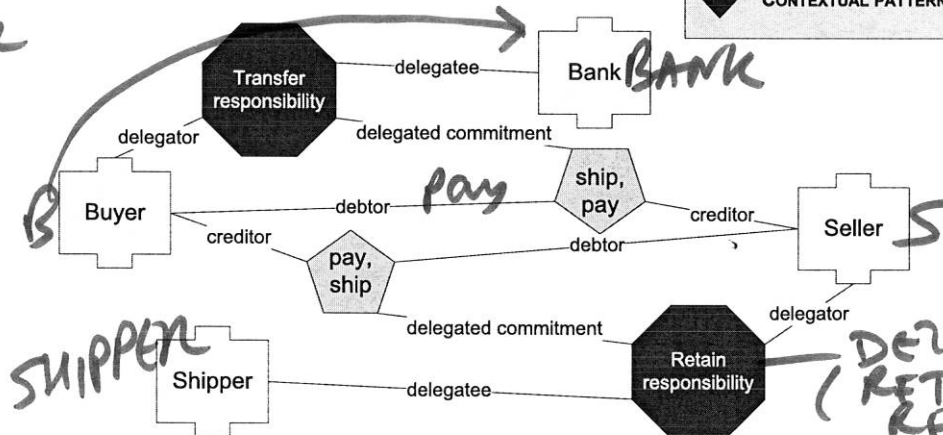
(a) Pair of conditional commitments describing purchase



Similar engagements should look similar

DELEGATE (TRANSFER RESP)

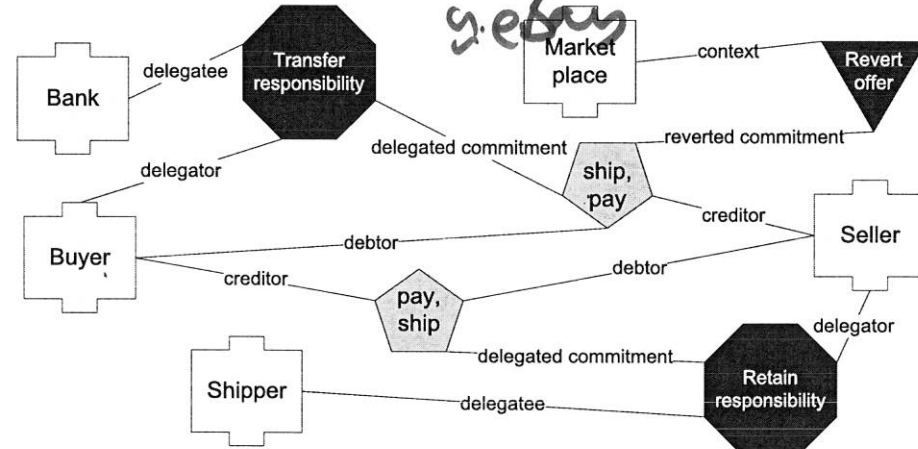
STRUCTURE



(b) Introducing bank and shipper via delegations of commitments

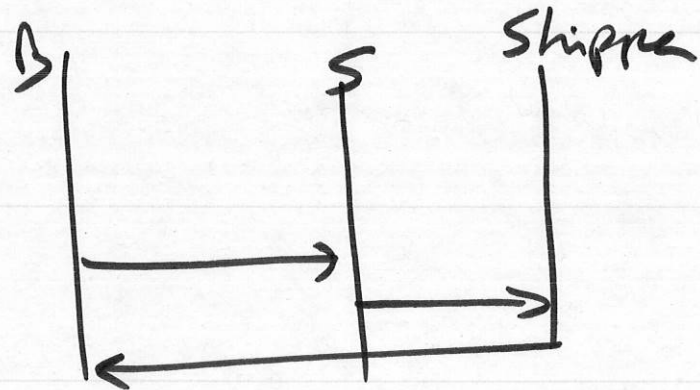
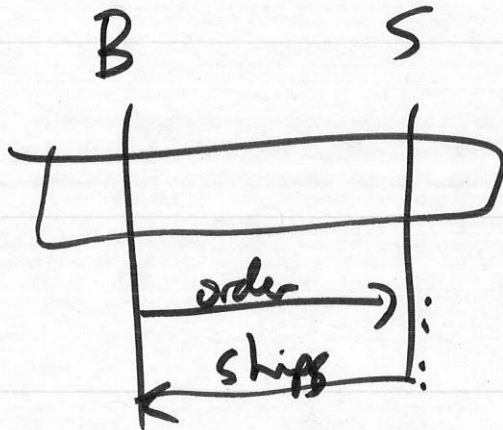
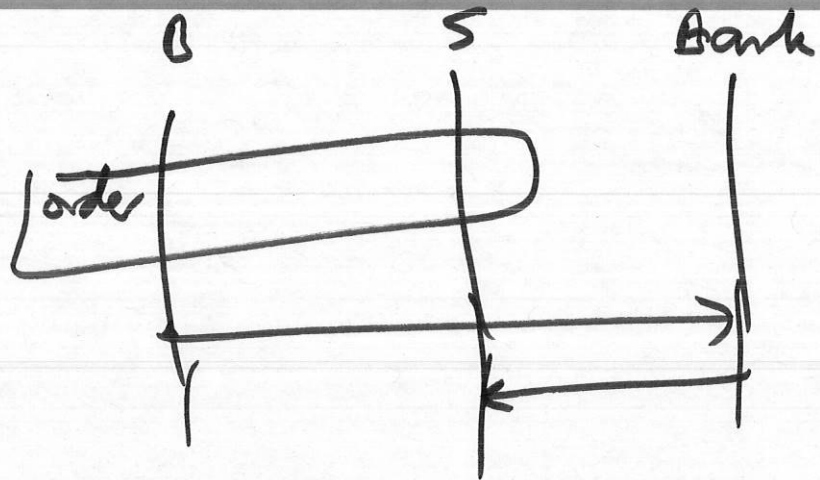
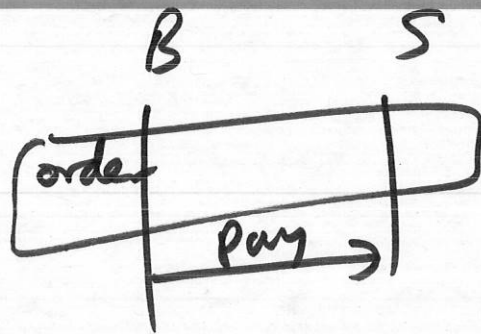
DELEGATE (RETAIN RESP)

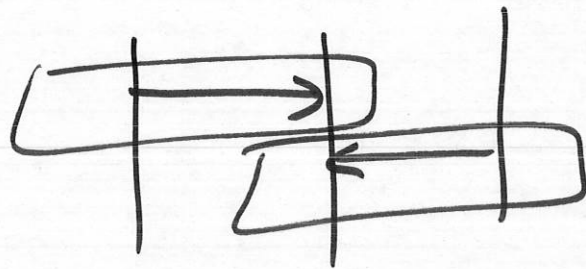
CONTEXT



(c) Allowing buyer to skip payment or get a refund upon returning goods

(RETURN GOODS FOR REFUND)



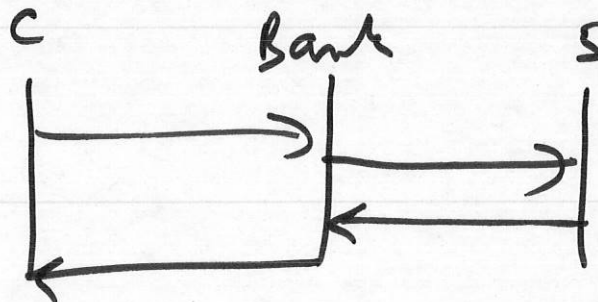
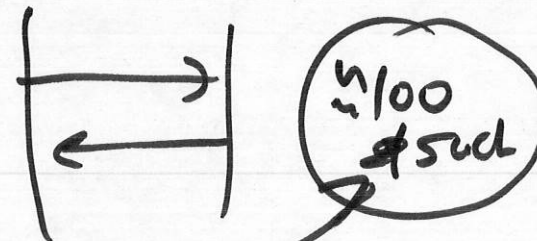


order precedes pay
 ← not erodable

MSC patterns in practice

I

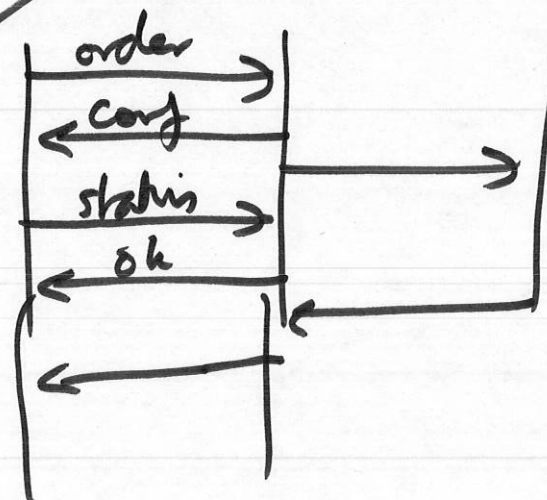
Two party
 Request response



RosettaNet Standard
 Supply Chain

II

Actual supply chain (and more)





HIGHLY CAUTIOUS

