ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ
BİLGİSAYAR MÜHENDİSLİĞİ
Nesneye Dayalı Analiz ve Tasarım Dersi

Proje Adı:

Lokanta Sipariş sistemi (Restaurant Ordering System : ROSys)

Rapor 6:

- Report 4 diagrams correction for UC2
- Interaction Diagrams

Grup No: 06
Grup Adı: Firestone

Grup Üyeleri:

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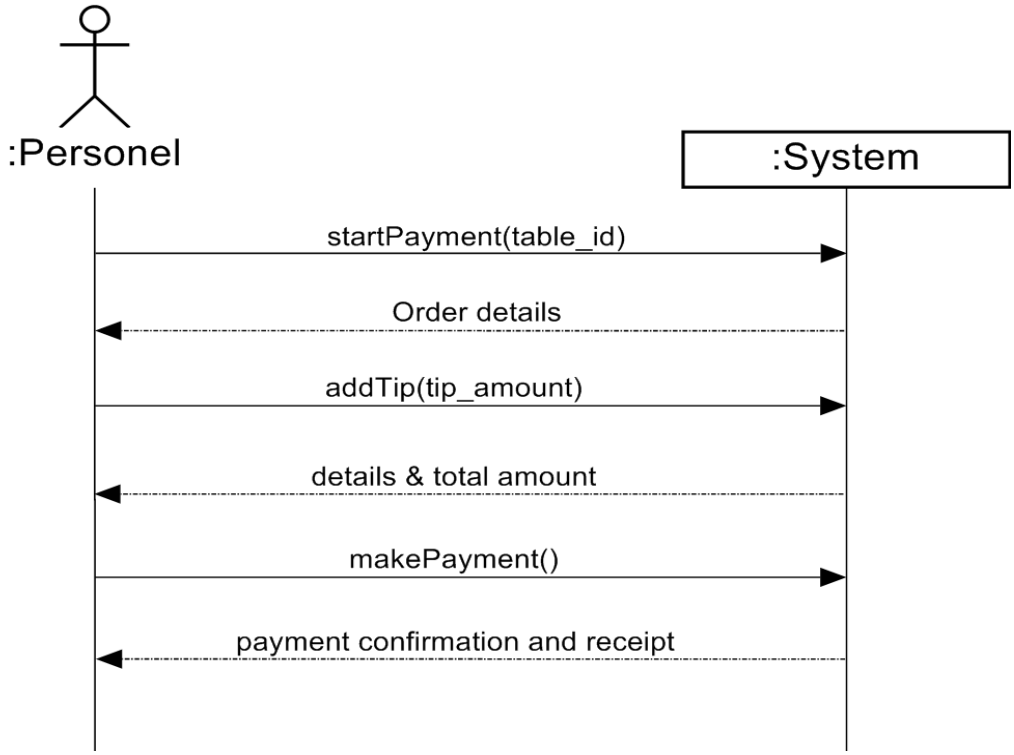
DANIŞMAN: Yrd. Doç. Dr. Ali Murat Tiryaki

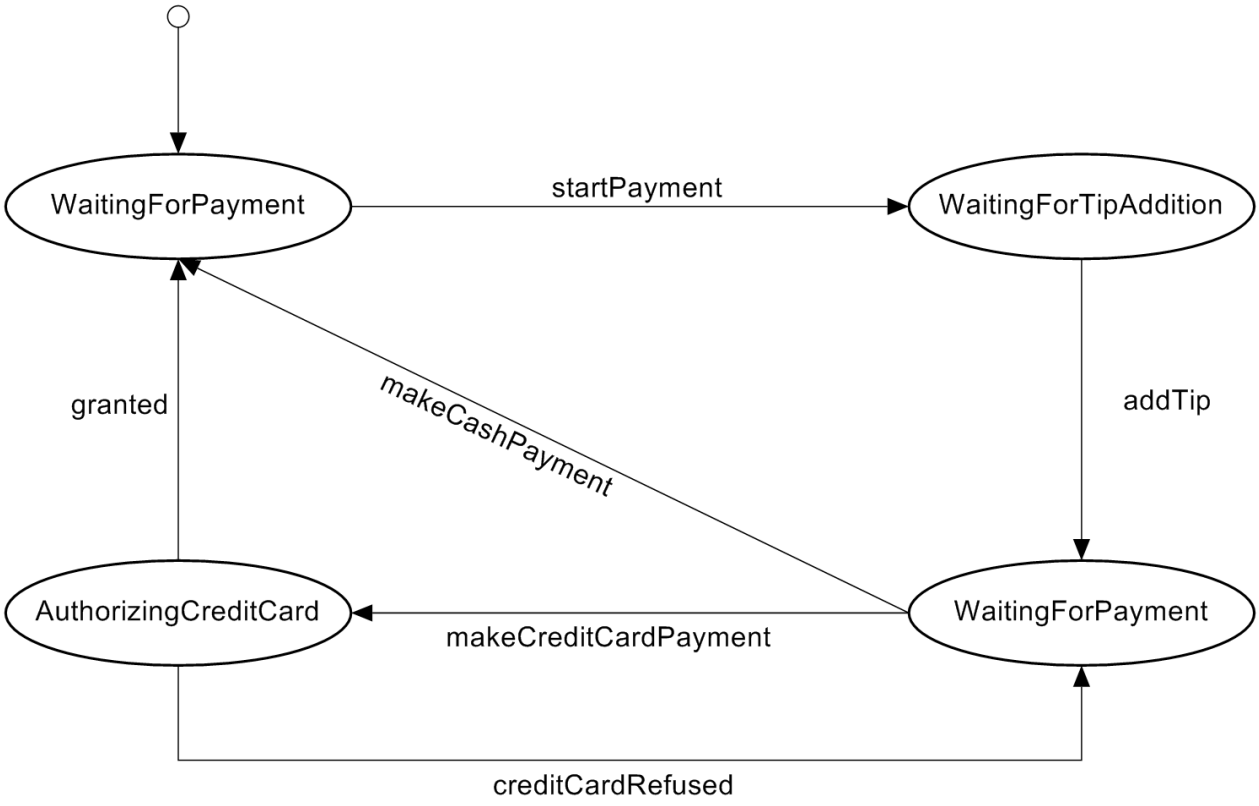
Çanakkale 2017

Use Case 2: Process Payment

1- System Sequence Diagram



2- State Machine Diagram



3- Operation Contracts

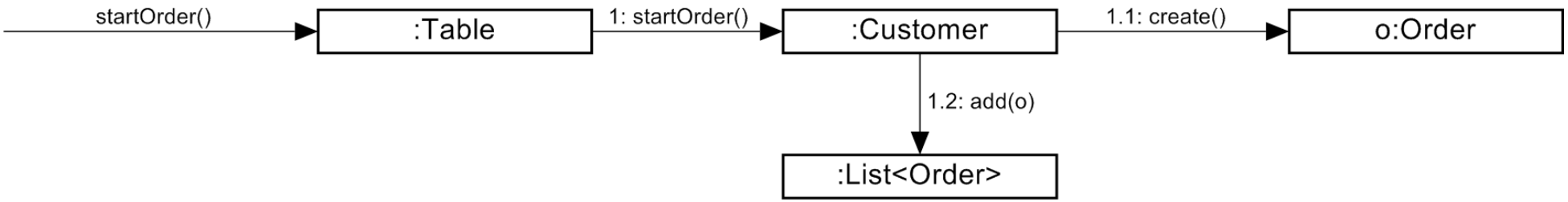
Contract CO1: startPayment	
Operation	startPayment(table_id)
Cross References	Use Case : Process Payment
Preconditions	none
Postconditions	- A Payment instance was created with name (p). - The payment (p) was associated with the current ongoing order on the table associated with (table_id).

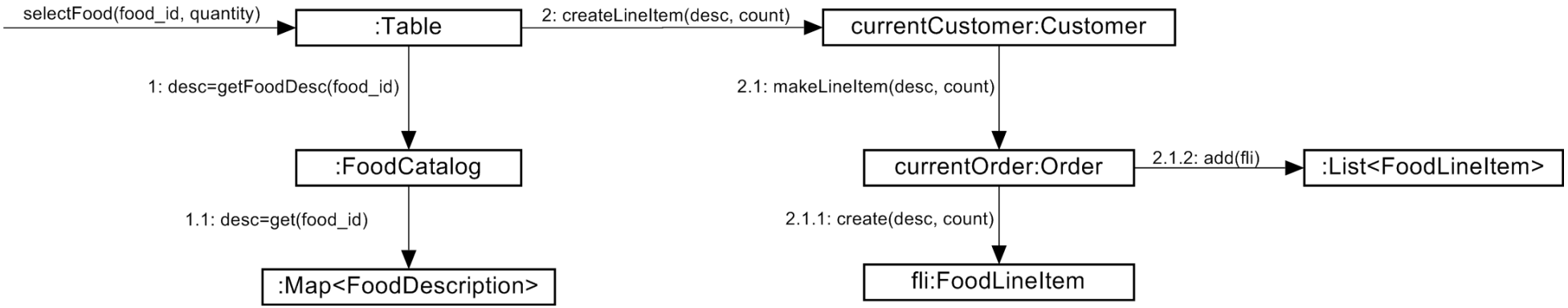
Contract CO2: selectOrder	
Operation	addTip(tip_amount)
Cross References	Use Case : Process Payment
Preconditions	There is payment underway with name (p)
Postconditions	- p.tip_amount attribute became equals to tip_amount (parameter)

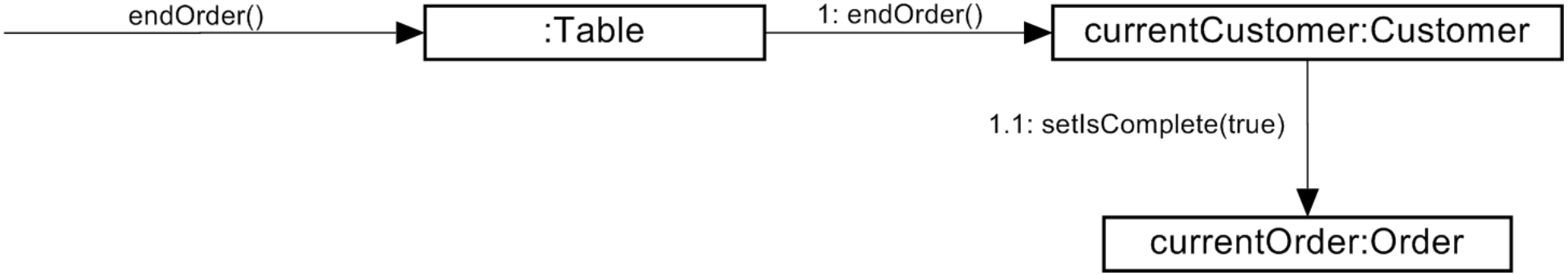
Contract CO3: makePayment	
Operation	makePayment()
Cross References	Use Case : Process Payment
Preconditions	There is payment underway with name (p)
Postconditions	- p.isCompleted became true - the current order attached to the payment p became associated with the Ledger instance.

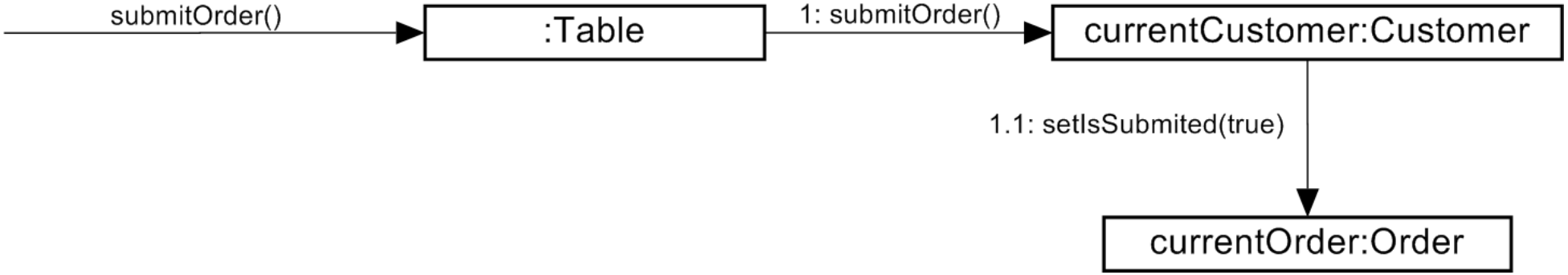
Interaction Diagrams :

Use Case 1 :

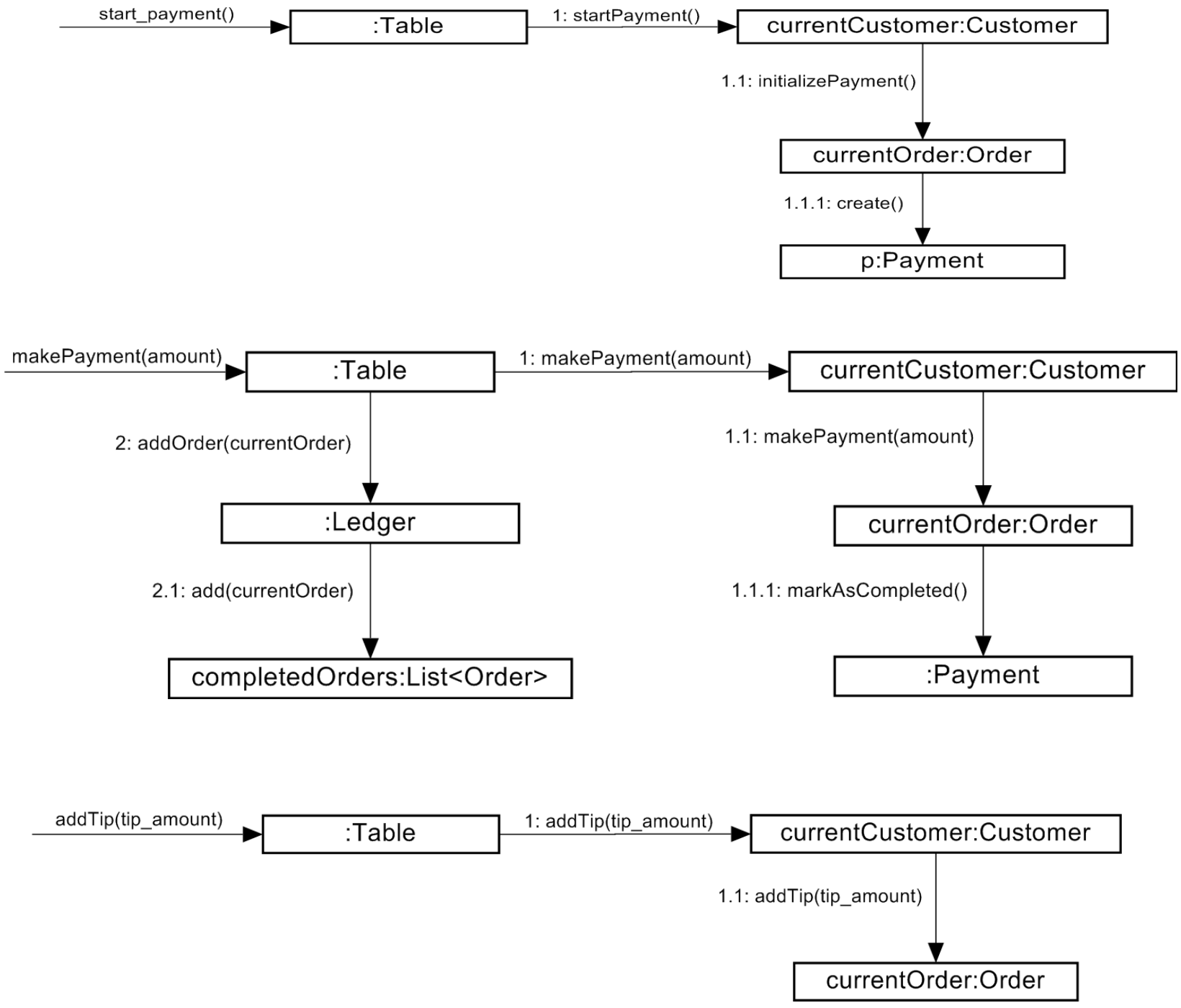





endOrder()
:Table
1: endOrder()
currentCustomer:Customer
1.1: setIsComplete(true)
currentOrder:Order


submitOrder()
:Table
1: submitOrder()
currentCustomer:Customer
1.1: setIsSubmited(true)
currentOrder:Order

Use case 2 :


start_payment()
:Table
1: startPayment()
currentCustomer:Customer
1.1: initializePayment()
currentOrder:Order
1.1.1: create()
p:Payment
makePayment(amount)
:Table
1: makePayment(amount)
currentCustomer:Customer
2: addOrder(currentOrder)
1.1: makePayment(amount)
:Ledger
currentOrder:Order
2.1: add(currentOrder)
1.1.1: markAsCompleted()
completedOrders:List<Order>
:Payment
addTip(tip_amount)
:Table
1: addTip(tip_amount)
currentCustomer:Customer
1.1: addTip(tip_amount)
currentOrder:Order