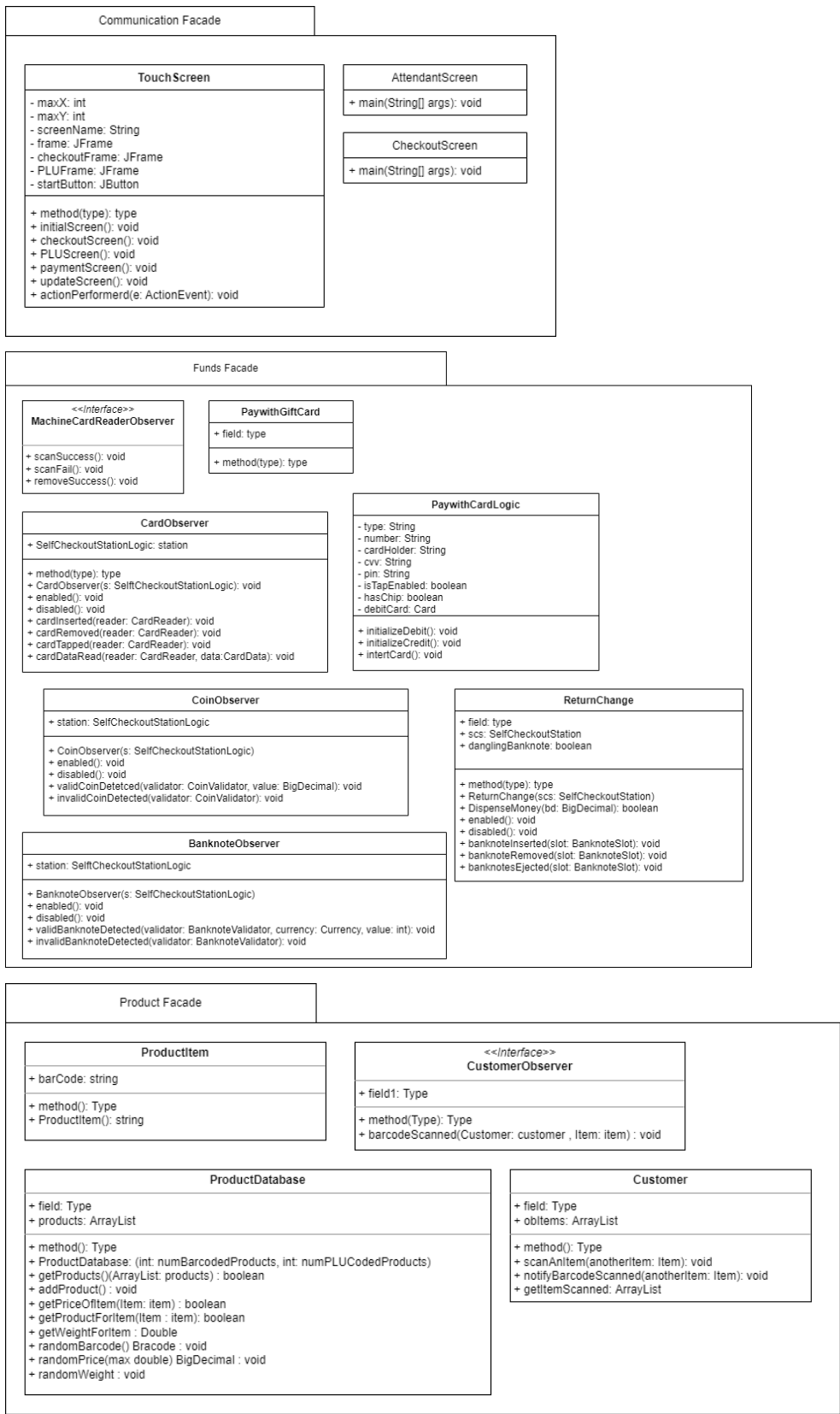


# SENG300 Assignment 2

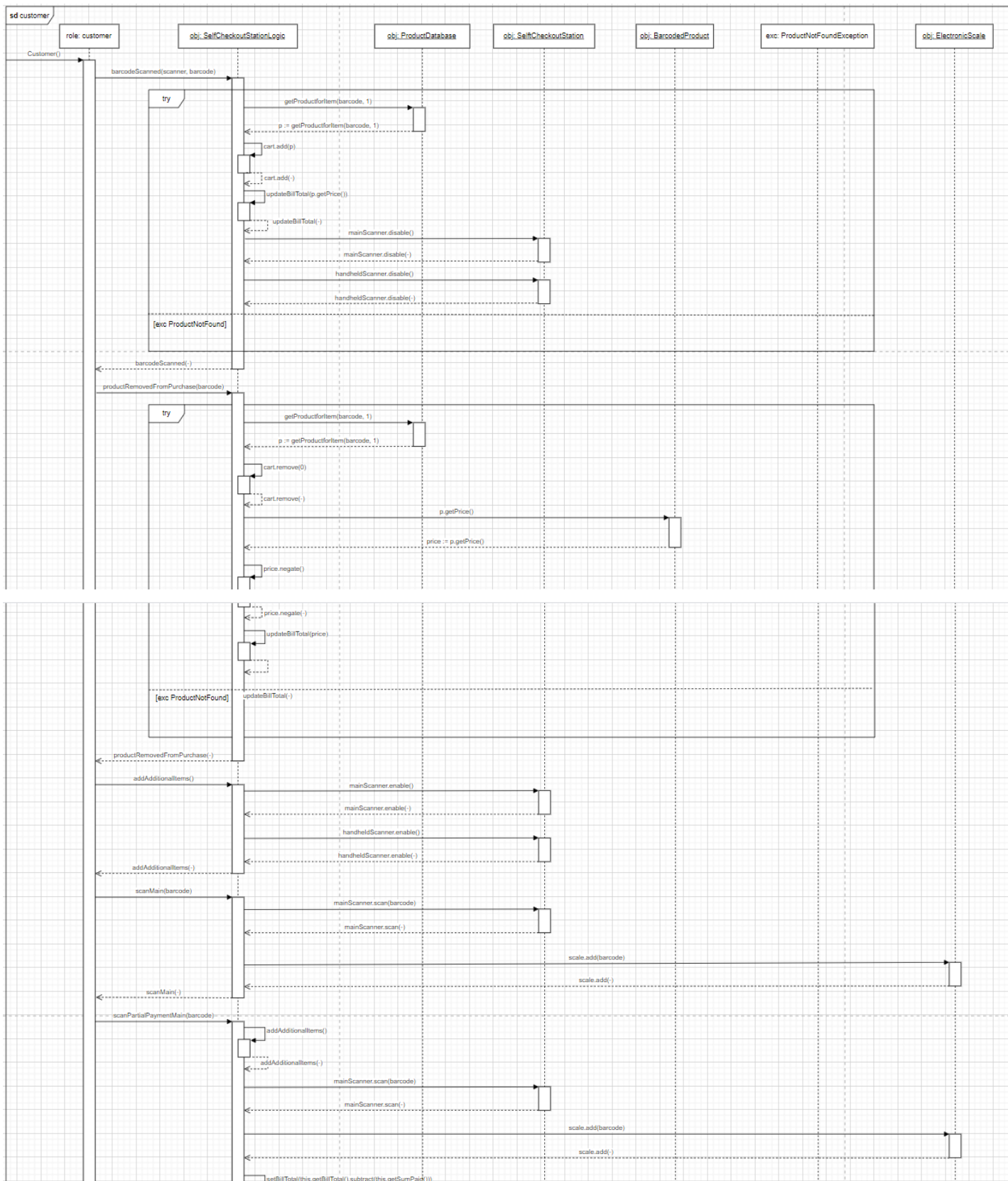
## Group

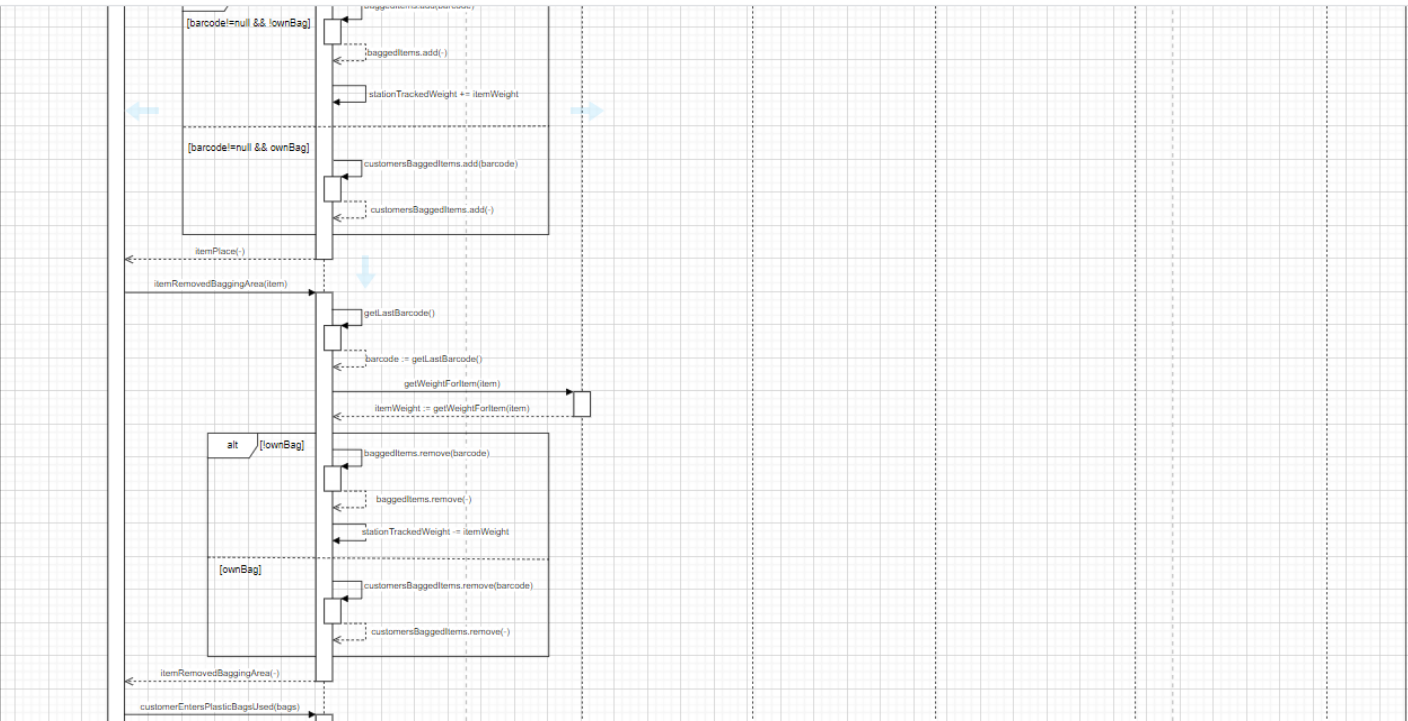
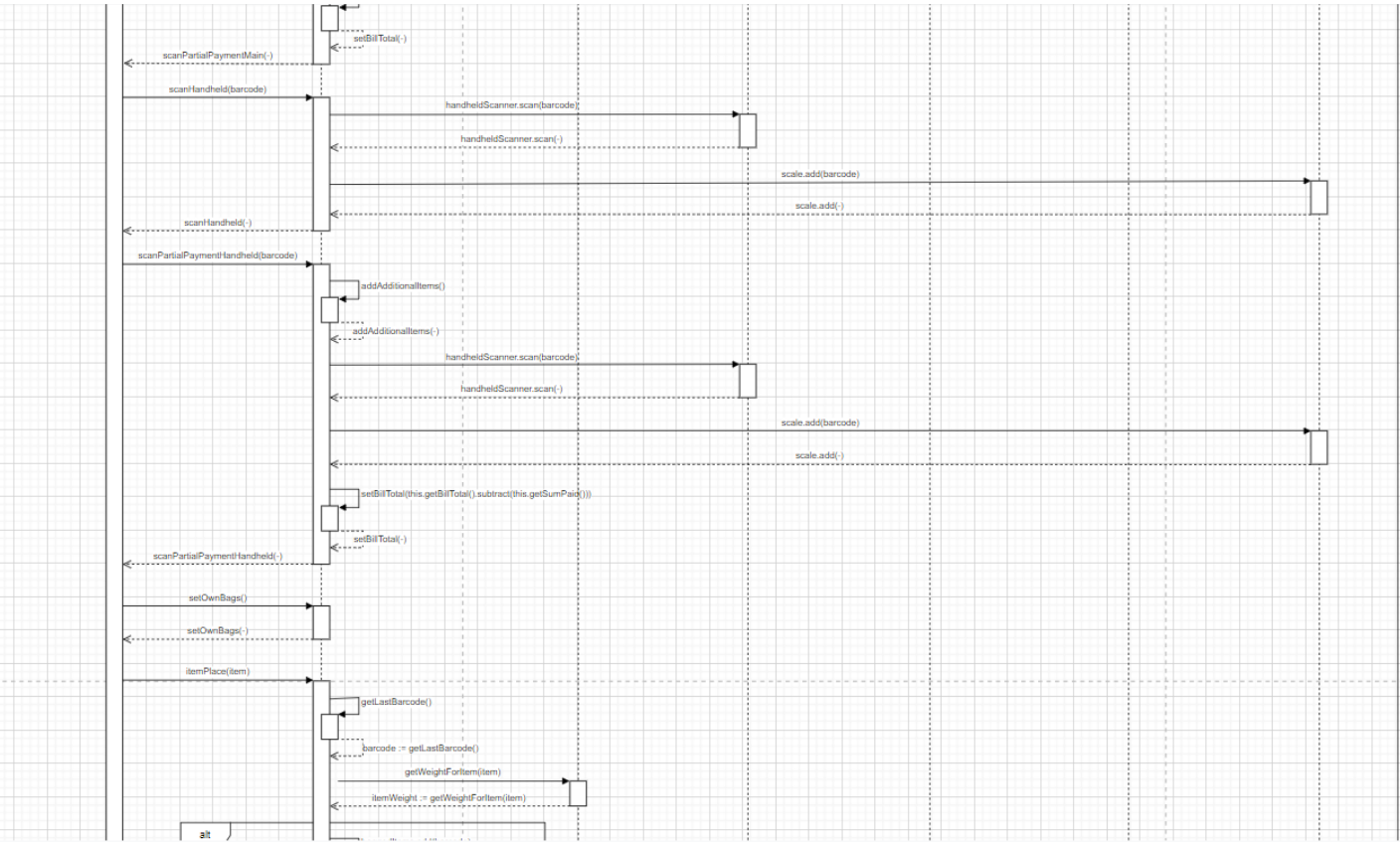
YuJeong Chae (UCID: 30091378)  
Jasmithaa Sankar (UCID: 30113247)  
Jazib Khan (UCID: 30115226 )  
Weile Tang (UCID: 30070943 )  
Justin Yu (UCID: 30093886)  
Chiehhan Yang (UCID: 30110238)  
Jaewoo Park (UCID: 10131165)  
Guilherme Doherty Marques (UCID: 30075951)  
Kadin Sayani (UCID: 30061139)  
Josiah Lansang (UCID: 30117995)  
Justin Parker (UCID: 30096409)  
Callaghan Davitt (UCID: 30077640)  
Ethan Macson (UCID: 30072232)  
Elise Chevalier (UCID: 30095840)  
Harsweet Singh (UCID: 30117846)  
Muhammad Arij Ashar (UCID: 30114920)

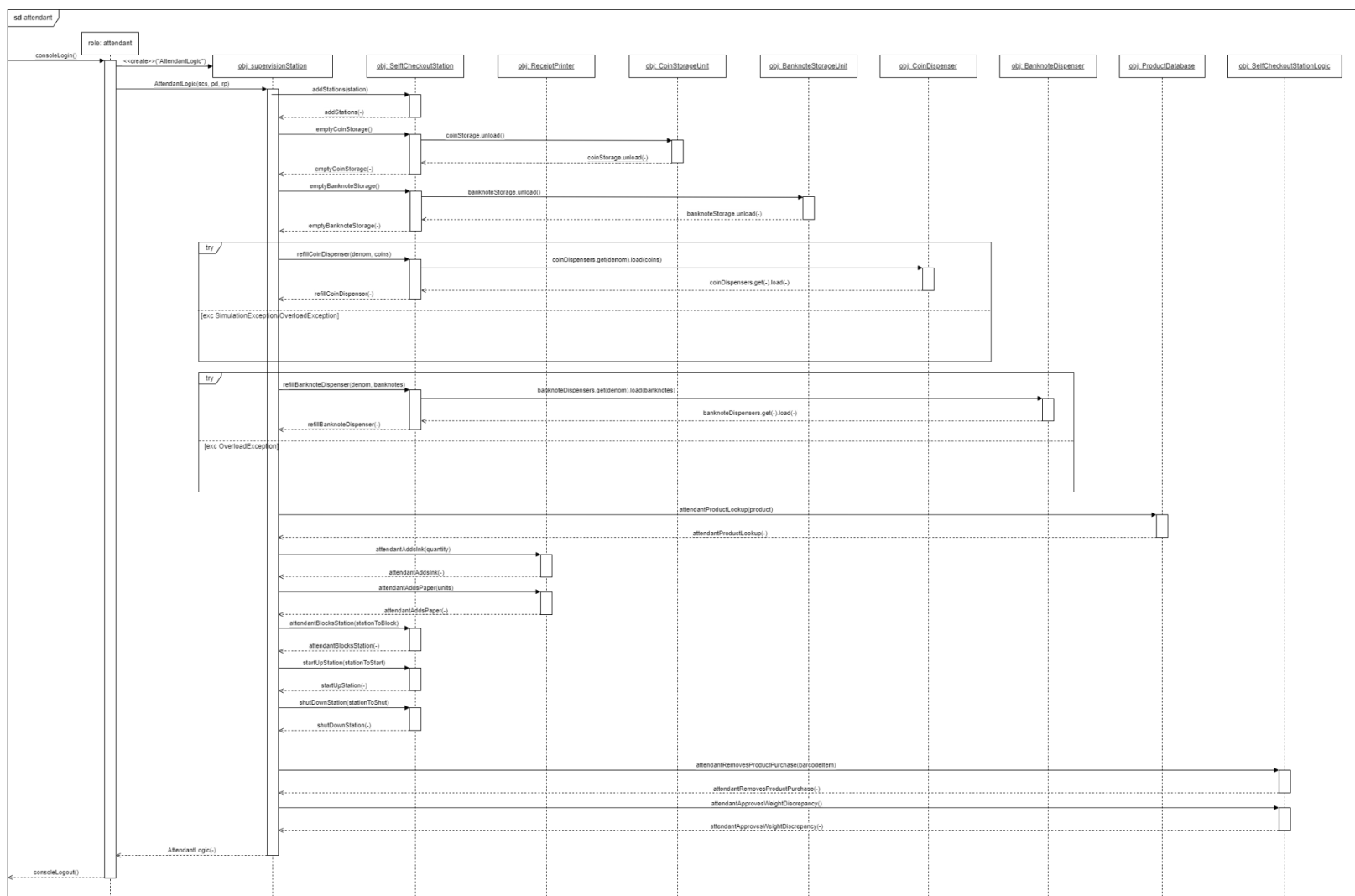
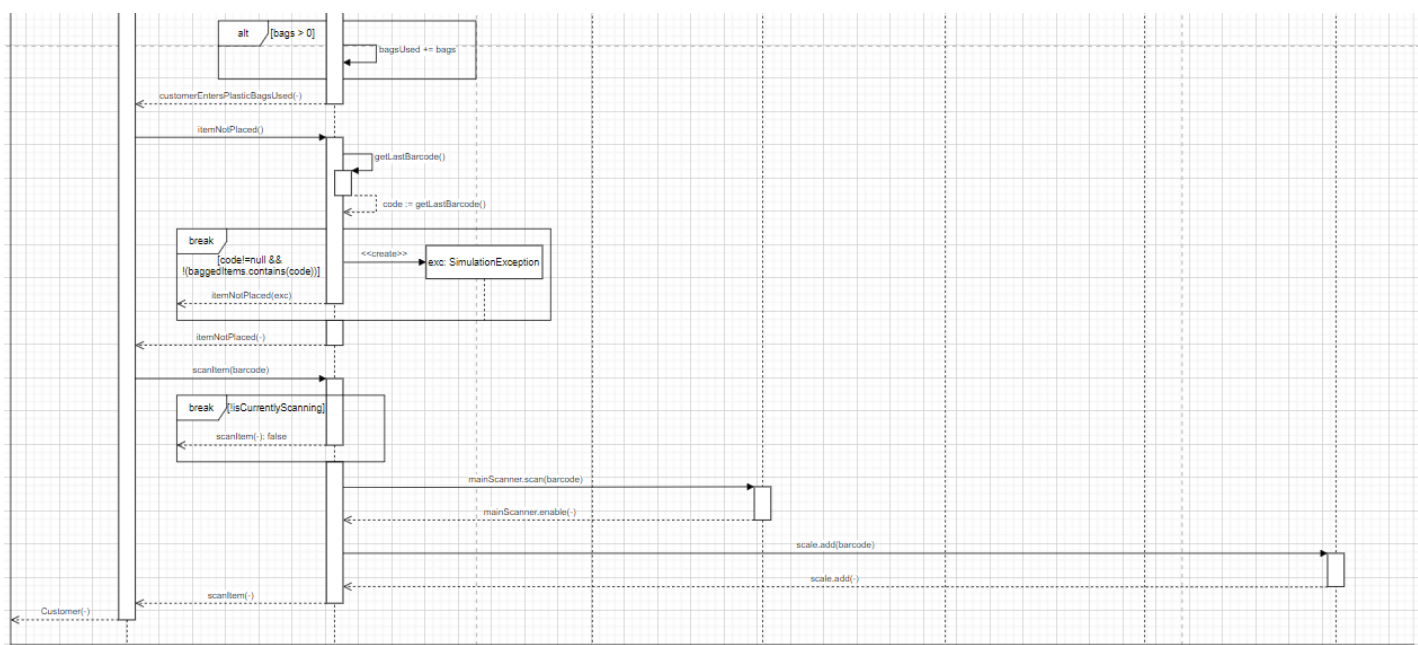
Structure Diagram:



# Sequence Diagram:

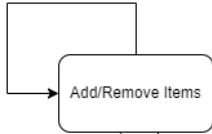






## State-Machine Diagram:

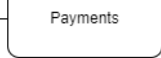
barcodeScanned(scanner, barcode) / cart.add(barcode)  
scanMain(barcode) / scale.add(barcode)  
scanHandHeld(barcode) / scale.add(barcode)  
itemPlaced() / baggedItems.add(lastBarcode)  
itemRemovedBaggingArea() / baggedItems.remove(lastBarcode)  
scanItem(barcode) / scale.add(barcode)



barcodeScanned(scanner, barcode) [product not found] / exception  
itemNotPlaced() [(lastBarcode != null) && (baggedItems.contains(lastBarcode))]/ exception  
attendantApprovesWeightDiscrepancy() / outOfOverload(scale)  
BaggingAreaObserver.enabled(AbstractDevice<? extends AbstractDeviceObserver> device) /

Error/Attendant Control

scanPartialPaymentMain(barcode) / scale.add(barcode)  
scanPartialPaymentHandheld(barcode) /  
scale.add(barcode)



setSumPaid(newAmount) / sumPaid  
insertCoin(coin) / coinSlot.accept(coin)  
insertBanknote(banknote) / banknoteInput.accept(banknote)  
printReceipt() / printLine()  
updateBillTotal(price) / billTotal.add(price)

CoinObserver.enabled(AbstractDevice<? extends AbstractDeviceObserver> device) /  
CardObserver.enabled(AbstractDevice<? extends AbstractDeviceObserver> device) /  
BanknoteObserver.enabled(AbstractDevice<? extends AbstractDeviceObserver> device) /

insertCoin(coin) [invalid coin] / exception  
insertBanknote(banknote) [invalid coin] / exception  
printReceipt() [no paper] / exception  
outOfPaper(printer) [addPaper(max)] / exception  
outOfLink(printer) [addLink(max)] / exception