Module: OOIS PCOM7E March 2022 A Student ID: 12685619 virtualShoppingBasket transaction paymentMethod generates +itemList: item[] +totalCheckoutAmount: float +transactionID: string (customer) +lovaltyPointsEarned: int +type: string +paymentComplete: boolean can scan loyaltyCard requests +loyaltyID: string +itemList: item [+addItem() +loyaltyID: string
-customerID: string +removeItem() +calculateTotalSpend() +goToCheckout() +totalPoints: int +getCheckoutAmount() -calculateAmount() +selectPaymentMethod() +getLoyaltyCard(+receiveAuthorisation() +requestPayment() +scanLoyaltyCard() +updatePoints(totalPoints) is added to (customer) can select item updates customer +itemName: string +itemID: string +restrictedItem: Boolean name: string +lovaltvPointsValue: int +customerID: string +itemBarcode: int loyaltyPoints voucher mobilePayment cash +itemWeight: float +itemOuantity: int +transactionID +transactionID +transactionID +transactionID +itemPrice: float, currency +selectItem() -coin: string +voucherID: String -mobileProvider: string +cardID: string +voucherExpiry: date -note: strinğ +getPoints() -getCardDetails() +isReal() +calculateWeight()
+calculateQuantity() -devalueVoucher() +count() +returnChange() +calculateRemaining() 1.. updates (customer) scans or weighs stockControlSystem card alerts -cardTvpe: string selfServiceCheckout +itemsInStock: Item[]
+itemID: itemID -cardNumber: int -Expiry: date +itemBarcode: int -CCV: int +itemQuantity: int +itemWeight: float -checkoutID: string warehouseStaff -acceptCardType()
-contactBank() +itemPosition: string +itemPrice: float, currency +scanBarcode() +authorisePayment() +name: name +weighItem() +staffID: staffID visits +updateStock() +sendReorderAlert() +getReorderAlert() +sendReplenishAlert() +getReplenishAlert() Legend +replenishStock(item, position) +reorderStock(item, supplier) supermarketStaff Multiplicities are represented numerically, e.g.: 1 / 1..* / 1..5 +name: String +staffID: String An association relationship is repsented by a single straigt line an 'optional' association is represented by a dotted line customerServiceStaff +name: name An aggregation relationship is represented by a line with an open can override or authorise +staffID: staffID diamond +overrideItem() A composition relationship is represented by a line with a filled +authoriseItem(restrictedItem) black diamond An open-headed arrow represents a parent - child class relationship (arrow pointing in the direction of the parent class)

+ / - signs indicate a public or private method, respectively