SIMPLE INVENTORY SYSTEM

UI

+ adminMenu(out choice: int&)
+ cashierMenu(out choice: int&)
+ promptForInt(in prompt: string, out num: int&)
+ promptForStr(n prompt: string, out str: string&)
+ promptForFloat(in prompt: string, out num: float&)
+ printError(in err: string)
+ printUsageError()
+ printStock(in arr: ProdList&)
+ printCustomers(in arr: CustArray&)
+ void pause()
+ printPurchaseSummary(in summary: float, in origSummary: float)
+ printOrders(in arr: OrderArray&)
+ categoryMenu(out choice: int&, out lSpan: int&)
- readInt() : int
- printOnlyThePurchases(in cust: Customer*)

InvControl

+ launch(in argc: int, in argv[]: char*)
- initProducts()
- initCustomers()
- processAdmin()
- processCashier()

Store

+ addProd(in prod: Product*)
+ addCust(in cust: Customer*)
+ isCustomerThere(in custId: int) : bool
+ isProductThere(in prodId: int) : bool
+ makePurchase(in prodId: int, in custId: int, out prodPrice: float&, out origPrice: float&) : bool
+selectedCustomer(in custId: int) : Customer*
- selectedProduct(in prodId: int) : Product*

Date

- day : int
- month : int
- year : int

+ operator+=(in d: int) Date&
+ operator+(in d: int) Date
+ operator>(in d: Date&) : bool
+ operator=(in d: Date&) : Date&
+ toString(out outStr: string&)
- lastDayMonth() : int
- daysBeforeLastMonth() : int
- computeMonth(in d: int) : int
- convertToDays() : int
- computeDate(in d: int)

Product

nextProdId : int
id : int
name : string
size : string
units : int
price : float

+ decrementUnits()
+toString(out outStr: String&)
+computeTax() : float
#computeExpDate()

OrderServer

+ update(in order: Order*)
+ retrieve(out arr: OrderArray&)

Customer

nextCustId : int
id : int
name : string
points : int
priceTally : float

+ makePurchase(in prodId: int) : bool
+ hasItem(in prodId: int) : bool
+ allocatePoints()
+ incrementTally(in price: float)

Order

nextId : int
id : int
price : float

+addPurchase(in prodId: int, in prodPrice: float)
+toString(out outStr: String&)
-hasItem(in prodId: int): bool

Purchase

id : int
units : int

+ IncrementUnits()
+toString(out outStr: String&)

Perishable

lifespan : int

computeExpDate()

Taxable

computeTax() : float

NonPerishable

computeExpDate()

NonTaxable

computeTax() : float

Bakery

CoffeeTea

MiscGoods

Dairy

Meat