CS6310 Assigment 3 Grocery Express Project

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Pilot

- pilotId: String
- firstName: float
- lastName: float
- phoneNum: String
- taxId: String
- licenseId: String
- expLevel: int
- currentFlyingDrone: String

+ updateExpLevel()
+ changeDrone(String)

Delivery Service

storeList:Treemap<String, Store>
pilotLicense:Treemap<String, String>
pilotInfo:Treemap<String, Pilot>
customerList:Treemap<String, Customer>

+ check_store_name(String):boolean
+ readCommand()
+ check_customer(String):boolean
+ make_store(String, int)
+make_pilot(String, String, String, String, String, String, int)
+ make_customer(String, String, String, String, int, int)
+ display_stores()
+ display_pilots()
+ display_customers()
+ display_efficiency()

Store

-storeName: String
-storeRev: int
-itemList: TreeMap<String, Item> ;
-dronelist: TreeMap<String,Drone> ;
-orderList: TreeMap<String, Order>;
-numPurchases: int;
 -numOverload: int;
- numTransfer: int;

+ sellItem(String, int): String
+ purchaseOrder(String): String
+ cancelOrder(String): String
+ transferOrder(String, String): String
+ makeDrone(String, int, int): String
+ flyDrone(String, String): String
+startOrder(String, String, String): String
+ displayOrder()
+ displayDrones()
+ displayItem()
+ checkItem(String): boolean
+ checkDrone(String): boolean
+ checkOrder(String): boolean

Customer

- firstName: float
- lastName: float
- phoneNum: String
- rating: int
- credit: int
- creditOrdered: int

+ updateCredit(int)
+ updateCurrentCost(int)
+requestItem(int)
+ purchaseOrder(int)
+ cancelOrder(int)

Line

+itemId: string
+lineWeight: int
+lineQuantity: int
+lineWeight:int

Item

+itemId: string
+itemWeight: int

Order

- orderId: String
- droneId: String
- customerId: String
- lineOrdered: TreeMap<String, Line> ;
- totalQ: int
- totalCost: int
- totalWeight: int

+ displayLine()
+requestItem(int)
+ cancelOrder(int)

Drone

- droneId: String
- weightCap: int
- tripsLeft: int
- numOrders: int
- weightCarried: int
- currentFlyingPilot: String

+ changePilot(String)
+ updateTripsLeft(int):
+ updateNumOrders(int):
+ updateWeightCarried(int):
+requestItem(int)
+ purchaseOrder(int)
+ cancelOrder(int)