

<div>User</div> <div>Administrator, Shopper</div>	
ID password sessionID	

<div>Administrator</div> <div>User</div>	
allCategories allIDCenters sessionID addAdmin addCategory getScreenReport addProduct changePhoto changeDescription changePrice changeAvailableQuantity changeTotalQuantity seeProductsByCategory seeProductsByAvailability addNewDistributionCenter	Category Product DistributionCenter Graph Node ProductManager

<div>Shopper</div> <div>User</div> <div>Customer</div>	
<div>shoppingCart</div> <div>sessionID</div> <div>customerID</div> <div>idNum</div> <div>shoppingOrder</div> <div>cancelProduct</div> <div>saveCart</div> <div>uploadCart</div> <div>addToShoppingCart</div> <div>removeFromCart</div> <div>cancelCart</div>	<div>Product</div> <div>ShoppingOrder</div>

<div>Customer</div> <div>Shopper</div>	
<div>city</div> <div>street</div> <div>customerID</div> <div>orderMap</div> <div>invoiceList</div> <div>sessionID</div> <div>shoppingCart</div> <div>shippingPrice</div> <div>shoppingOrder</div> <div>totalCost</div> <div>totalInvoice</div> <div>shippingCost</div> <div>ship</div> <div>emptyOrderMap</div> <div>purchase</div>	<div>DistributionCenter</div> <div>Invoice</div> <div>Order</div> <div>Product</div> <div>ShoppingOrder</div>

UserManager	
userMap activeSessionIDs user adminRegistration shopperRegistration saveToFile readFromFile	User

Product	
	Invoice, Order
category image ID description price quantityDistributionMap availableQ	DistributionCenter DistributionCenterManager

ProductManager	
products addProduct saveToFile readFromFile	Product

Category	
code description products searchProduct searchPriceRange	Product

CategoryManager	
idNum categories add saveToFile readFromFile	Category

Invoice		Product
quantity cost		

Order		Product
customer quantityDistributionCenter	Customer DistributionCenter	

ShoppingOrder	
orders idNum orderID	Product

DistributionCenter	
centerName centerCity centerID products	Product

DistributionCenterManager	
distributionmanagers transferProduct add saveToFile readFromFile	DistributionCenter Product

Queue	
queue	
pop	
add	
isEmpty	

Node	
name	DistributionCenter
edges	Edge
child	
parent	
cumulativeCost	
existsDistribCenter	
distributionCenter	
equals	
compareTo	

Edge	
jointNode	Node
cost	

Graph	
nodes addNode addEdge findPath returnPathFrom resetGraph addDistributionCenter getClosestDistribution getNode getCost	DistributionCenter Node Queue

CreateGraph	
main	Node Graph

ShoppingCart	
shoppingCart	Product

ChopDictionary	
list populate returnNode getList	DoubleArray

DoubleArray	
array index add isFull	