

CS 4043 - Service Based Farm System

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1 Containers and functionalities

1. Customers (*custID, fName, lName, email, address, phone*)
 - (a) `getCustomer(custID)`
 - (b) `insertCustomer(fName, lName, email, address, phone)`
 - (c) `updateCustomer(custID, fName, lName, email, address, phone)`
 - (d) `deleteCustomer(custID)`
2. Orders (*orderID, custID, orderStatus, orderDate, orderContents(list)*)
 - (a) `getOrder(orderID)`
 - (b) `insertOrder(custID, orderStatus, orderDate, orderContents(list))`
 - (c) `updateOrder(orderID, custID, orderStatus, orderDate, orderContents(list))`
 - (d) `deleteOrder(OrderID)`
 - (e) `getOldestOrder()`
 - (f) `getOrdersByStatus(status)`
3. Inventory (*itemID, itemName, item, UPC*)
 - (a) `getItem(itemID)`
 - (b) `insertItem(itemName, item, UPC)`
 - (c) `updateItem(itemID, itemName, item, UPC)`
 - (d) `deleteItem(itemID)`
4. Warehouse (*UPC, qty, availability*)
 - (a) `updateQty(UPC, qty)`
 - (b) `getQty(UPC)`
 - (c) `insertItem(UPC, qty)`
 - (d) `deleteItem(UPC)`
 - (e) `getAvailability(UPC)`
5. Shipping (*shipID, address, status, orderID*)
 - (a) `deleteShipment(shipID)`

- (b) insertShipment(shipID, address, orderID)
 - (c) updateStatus(shipID, status)
 - (d) getStatus(shipID)
6. Web Page
- (a) Allow users to place order (With all necessary information)
 - (b) Allow users to login, save information
 - (c) Allow users to track live shipping
 - (d) Allow users to see all previous orders and re-order them if desired.
 - (e) Allow ADMIN users to login and view information from all other containers.
7. API's — All API's get their own unique container

2 API

1. API to send an object of type ORDER to the order's container via webpage.
2. API for the warehouse container to continuously grab the oldest ORDER via the orders container to prepare for shipping.
3. API for warehouse to send information to shipping based on availability, qty, etc.
4. API for the shipping container to send the status (and geo-location) to user via the webpage container.
5. API to send list of all previous orders from a specific customer (custID) from the orders container to the webpage for customer to see.
6. API to grab all ADMIN info from the customers, orders, inventory, warehouse, and shipping containers.