User

Abstract	
User	
	Administrator, Shopper
Browse Search Name Password ID Store	Store Product

Administrator

	User
Administrator	
Add Product Req. Modify Product Req. Add Category Req. List Categories	Store Product

Shopper

	User
Shopper	
Add to cart Remove from cart View Cart Check Out Buy It Now View Invoices Cart Past Invoices	Store Product Invoice

Product

Product	
Modify product Image ID Description Category Available Quantity Stock in Dist. Center Price	Category

Store

Store	
Add user Add product Create new user Login user Logout user Authenticate user List Products Modify Product List Categories Add Category Modify Category Authenticate Purchase User List Product List	Administrator Shopper Product Category DBManager

Invoice

Invoice	
Order ID Order Timestamp List of products Quantity per product Price per product Shipping Costs	Product Graph City

Category

Category	
ID Number Name	

DBManager

DBManager	
Display current users, products, categories, and cities Update existing user, products, and categories, and write to CSV Add User to CSV file Add Product to CSV Add Category to CSV Add City to CSV	Store User Shopper Administrator Product Category Graph City

Graph	
Calculate shortest distance to Distribution centres Calculate shortest route and cost for route List of cities	Store City

City	
Display edges for each city Name Distribution boolean	Store Graph