Morgan Rassatt

Wishlist

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| Sequence Diagram | Method(s) to add | Description |
| Constructor | Constructor() | Initialize a wishlist for a specific client. |
| Add Product | AddProduct() | Verifies product ID and checks to see if the product can be added to wishlist. If it can add it and it already isn’t in wishlist, then return true and add it. Otherwise return false. |
| Get Wishlist Info | GetWishListInfo() | Returns a string containing all the products in the wishlist. It includes name, price, description for each. |
| Remove Product | RemoveProduct() | Uses product ID to remove it from the wishlist. Returns true of it was removed and false if the product isn’t in wishlist. |
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| Wishlist |
| -clientID: String  -products: List |
| +Wishlist(clientID: String)  +getClientID(): String  +getProducs(): List  +addProduct(productID: String): Boolean  +getProductInfo(productID: String): String  +updateProduct(productID: String, newProduct: Product): Boolean  +removeProduct(productID: String): Boolean |

Order

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| Sequence diagram | Methods to add | Description |
| Constructor | Constructor | Initializes a new order with a unique order ID, associated client ID, and the date it was placed. |
| Add Item | addItem() | Add a product and the quantity to the order, check to see if there is stock. |
| Update Item | updateItem() | Checks and updates the quantity of an item in the order. |
| Remove Item | removeItem() | Removes a product from the order. |
| Get Order Details | getOrderDetails() | Gives the user a summary of the order that includes all the items, the quantities, and the costs. |
| Process Order | processOrder() | Processes payment and adjusts the stock. |

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| Order |
| id: String  clientID: String  date: Current date  items: List |
| +order(clientID: String, date: Current Date)  +getID(): String  +getClientID(): String  +getDate(): Current Date  +addItem(product: Product, quantity: int): Boolean  +updateItem(productID: String, quantity: int): Boolean  +removeItem(productID: String): Boolean  +getOrderDetails(): String  +processOrder(): Boolean  +orderItem(product: Product, quantity: Int)  +getProduct(): product  +getQuantity(): Int  +setQuantity(quantity: Int):  +getProductInfo(): String |