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Product

Sequence Diagram	Method(s) to add	Description
Add Product	Constructor	Parameters are name, price, description, and category. this will generate the unique ID and update Catalog
Get product Info	getProductInfo()	Returns a summary of all the product details such as name, price and description
Update Product	updateProduct()	Updates a product with new information with the same parameters as the constructor
Remove Product	removeProduct()	Removes all of the product details and ID from the catalog

Product

- id: String
 - name: String
  - price: Double
  - description: String
 - category: String

+Product(name: String, price: Double, description: String, category: String): Product
 +getID(): String
  +getName(): String
 +getPrice(): Double
 +getDescription(): String
 +getCategory(): String
 +setName(name: String): void
 +setPrice(price: Double): void
 +setDescription(description: String): void
 +setCategory(category: String): void
  +getProductInfo(): String
 +updateProduct(price: Double, description: String, category: String): Boolean
 +removeProduct(): Boolean

Catalog

Sequence Diagram	Method(s) to add	Description

Add Catalog	Constructor	There are no parameters, just creates an empty catalog to hold products
Add Product	addProduct()	Adds new product by reference in paramenter
Remove Product	removeProduct()	Removes and item from the catalog using the product ID
Search Product	searchProduct()	Searches for a product in the catalog by ID
All products	getAllProducts()	Displays all products in the current catalog

Catalog
- products: List
+Catalog(): Catalog +addProduct(product: Product): Boolean +removeProduct(productID: String): Boolean +searchProduct(productID: String): Product +getAllProducts(): Iterator