



Product
- supplierKey: String
- price: int
- productKey: String
- criticalValue: int
+ changePrice(price: int) void

Transaction
- transactionKey: int

Order
- totalCost: int

Delivery Type
- type: String

App
- type: String = "App"

Client
- name: String
- clientKey: String
- address: String
- points: int
- status: String
+ listTransactions(): List < Transaction >
+ showStatus(): String
+ changeNotifications(productKey: String) void
+ changeStatus(status: String) void

Sale
- product amount: int
- paymentDeadline: int

Book
- title: String
- author: String
- ISBN: String

Notification
- productKey: String
- description: String
- deliveryType: DeliveryType = new App()

Supplier
- name: String
- supplierKey: String
- address: String
- transactionState: boolean
+ listTransactions(): List < Transaction >
+ changeTransactionState(state: boolean) void

Container
- serviceType: String
- serviceLevel: String

Box
- serviceType: String

Storefront

- Store : Store = newStore()
- filename : String = ""

+ Display Date () : int

+ Advance Date (days : int) : void

+ register Client (name : string, clientKey : string, address : string, status : int) : void

+ showAllClients () : List < Client >

+ show Client (clientKey : string) : string

+ show Client Transactions (clientKey : string) : string

+ toggle Product Notifications (clientKey : string, ProductKey : string) : void

+ change Price (newPrice : int, ProductKey : string) : void

+ register Product Box (supplierKey : string, price : int, ProductKey : string, criticValue : int, type : string) : void

+ register Product Container (supplierKey : string, price : int, ProductKey : string, criticValue : int, serviceType : string, serviceLevel : string) : void

+ register Product Book (supplierKey : string, price : int, ProductKey : string, criticValue : int, title : string, author : string, ISBN : string) : void

+ show All Products () : List < Products >

+ register Supplier (name : string, supplierKey : string, address : string) : void

+ show All Suppliers () : List < Suppliers >

+ show Supplier (supplierKey : string) : string

+ toggle Transactions (supplierKey : string) : void

+ Pay (transactionKey : int) : void

+ register Order (ProductKey : string, amount : int, supplierKey : string) : void

+ register Sale (ProductKey : string, amount : int, dueDate : int, clientKey : string) : void

+ show Transaction (transactionKey : int) : string

+ lookUp Products Under Top Price (price : int) : string

+ lookUp Payments by Client (clientKey : string) : string

Store

```
- date : int = 0  
- name : String  
- transactionKey : int = 0  
- globalBalance : int = 0
```

```
+ registerClient(name: String, clientKey: String, address: String, status: int): void  
+ showAllClients(): List<Client>  
+ showClient(clientKey: String): String  
+ showClientTransactions(clientKey: String): String  
+ toggleProductNotifications(clientKey: String, productKey: String): void  
+ changePrice(productKey: String, newPrice: int): void  
+ registerProductBox(supplierKey: String, productKey: String, criticValue: int, serviceType: String): void  
+ registerProductContainer(supplierKey: String, productKey: String, criticValue: int, serviceType: String, serviceLabel: String): void  
+ registerProductBook(supplierKey: String, productKey: String, criticValue: int, title: String, author: String, ISBN: String): void  
+ showAllProducts(): List<Product>  
+ registerSupplier(name: String, supplierKey: String, address: String): void  
+ showAllSuppliers(): List<Supplier>  
+ showSupplier(supplierKey: String): String  
+ toggleTransactions(supplierKey: String): void  
+ pay(transactionKey: int): void  
+ registerOrder(productKey: String, amount: int, supplierKey: String): void  
+ registerSale(productKey: String, amount: int, dueDate: int, clientKey: String): void  
+ showTransaction(transactionKey: int): String  
+ lookUpProductsUnderTopPrice(price: int): String  
+ lookUpPaymentsByClient(clientKey: String): String
```

Maísim Santos, 95638

Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projecto

Maísim Santos

João Bagerro, 95604

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