ParameterController

- addParameter(code: String, description: String): Parameter
- getAllParameters(): List
- getParametersByType(description: String): List
- getParameterByCode:(code: String): Parameter

ParameterService

- typeDocs: List
- products: List
- typeProducts: List

- addParameter(code: String, description: String): Parameter
- getAllParameters(): List
- getParametersByType(description: String): List
- getParameterByCode:(code: String): Parameter

Parameter

- code: String
-description: String

- Parameter(code: String, description: String)

TypeProduct

- Locations: List

+ loadLocationsF
+ getAllLocations
+ getLocationByC
+ getLocationsBy
+ getLocationsBy
+ getLocationsBy
+ getAllDepartme
+ getDepartmentI
+ getCapitals(): L
+ getLocationByF
finalLetter: char):

Product

- price: double
- stock: int

1

Sale

- store: Store

TypeDoc

Seller

- identification: String
- typeDoc: TypeDoc
- name: String
- lastName: Sting
- age: byte
- city: Location

LocationService

FromCSV(): void
s(): List
Code(code: String): Location
Name(name: String): List
InitialLetter(initialLetter: char): List
DepartmentCode(code: String): List
ents(): List
ByCode(code: String): Location
List
Parameters(initialLetter: char,
List

Location

Store

- code: String
- name: String
- address: String
- city: Location

StoreService

- stores: List

+ loadStoresFromCSV(): void
+ writeStoresOnCSV(): void
+ getStoreByCode(code:
String): Store
+ getStoresByName(name:
String): List
+ getStoresByAddress(address:
String): List
+ getStoresByCity(city: String)
+ getAllStores(): List

StoreController

1

SellerService

- sellers: List

+ loadSellersFromCSV(): void
+ writeSellersInCSV(): void
+ getAllSellers(): List
+ getSellerByIdentification(identification: String): Seller
+ geSellersByName(name: String): List
+ getSellersByLastName(lastName: String): List
+ getSellersByAge(age: byte): List
+ getSellersByCity(city: String): List
+ getSellersByInitialLetter(initialLetter: char): List

SellerController

+ loadSellersFromCSV(): void
+ writeSellersInCSV(): void
+ getAllSellers(): List
+ getSellerByIdentification(identification: String): Seller
+ geSellersByName(name: String): List
+ getSellersByLastName(lastName: String): List
+ getSellersByAge(age: byte): List
+ getSellersByCity(city: String): List
+ getSellersByInitialLetter(initialLetter: char): List

```
                                          - seller: Seller
                        *─◇               - date: LocaleDate
                                          - quantity: int             ◇─ *
                                          products: List
                                                △
                                                ┊
                                                ┊
                                                ┊

                    ┌──────────────────────────────────────────┐
                    │                SaleService                 │
                    ├──────────────────────────────────────────┤
                    │ - sales: List                              │
                    ├──────────────────────────────────────────┤
                    │ + loadSalesFromCSV(): void                 │
                    │ + writeSalesOnCSV(): void                  │
                    │ + getAllSales(): List                      │
                    │ + getSalesByStore(code: String): List      │
                    │ + getSalesBySeller(identification: String): List │   <─┐
                    │ + getSalesByDate(date: LocaleDate): List   │        ┊
                    │ + getSalesByItems(quantity: byte): List    │        ┊
                    │ + getSalesByProducts(product: String): List│        ┊
                    └──────────────────────────────────────────┘        ┊
                                                                          ┊
                                ┊ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ┘
                                ┊

                    ┌──────────────────────────────────────────┐
                    │               SaleController               │
                    ├──────────────────────────────────────────┤
                    ├──────────────────────────────────────────┤
                    │ + loadSalesFromCSV(): void                 │
                    │ + writeSalesOnCSV(): void                  │
                    │ + getAllSales(): List                      │
                    │ + getSalesByStore(code: String): List      │
                    │ + getSalesBySeller(identification: String): List │
                    │ + getSalesByDate(date: LocaleDate): List   │
                    │ + getSalesByItems(quantity: byte): List    │
                    │ + getSalesByProducts(product: String): List│
                    └──────────────────────────────────────────┘
```

+ loadStoresFromCSV(): void
+ writeStoresOnCSV(): void
+ getStoreByCode(code:
String): Store
+ getStoresByName(name:
String): List
+ getStoresByAddress(address:
String): List
+ getStoresByCity(city: String)
+ getAllStores(): List