Diagram

GroceryList
- items: List

+addItem(item: Item)
+deleteItem(item: Item)
+changeQuantity(item: Item, newQuantity: Float)
+checkOffItem(item: Item)
+clearCheckOffMarks()

Database
- items: List
- itemTypes: List

+searchItemByName(name: String) : : List
+addItem(item: Item)
+addItemType(itemType: ItemType)

ListManager
+createList(name: String)
+renameList(list: GroceryList, newName: String)
+selectList(list: GroceryList)
+deleteList(list: GroceryList)

Item
- name: String
- quantity: Float
- type: ItemType
- checked: Boolean

ItemType
- name: String

classDiagram

    class GroceryList {

        - items: List<Item>

        + addItem(item: Item)

        + deleteItem(item: Item)

        + changeQuantity(item: Item, newQuantity: Float)

        + checkOffItem(item: Item)

        + clearCheckOffMarks()

    }

    class Item {

        - name: String

        - quantity: Float

```
    - type: ItemType

    - checked: Boolean

}


class ItemType {

    - name: String

}


class Database {

    - items: List<Item>

    - itemTypes: List<ItemType>

    + searchItemByName(name: String): List<Item>

    + addItem(item: Item)

    + addItemType(itemType: ItemType)

}


class ListManager {

    + createList(name: String)

    + renameList(list: GroceryList, newName: String)

    + selectList(list: GroceryList)

    + deleteList(list: GroceryList)

}


GroceryList <|-- Item

Item "1" *-- "1" ItemType

Database "1" o-- "0..*" Item

Database "1" o-- "0..*" ItemType
```