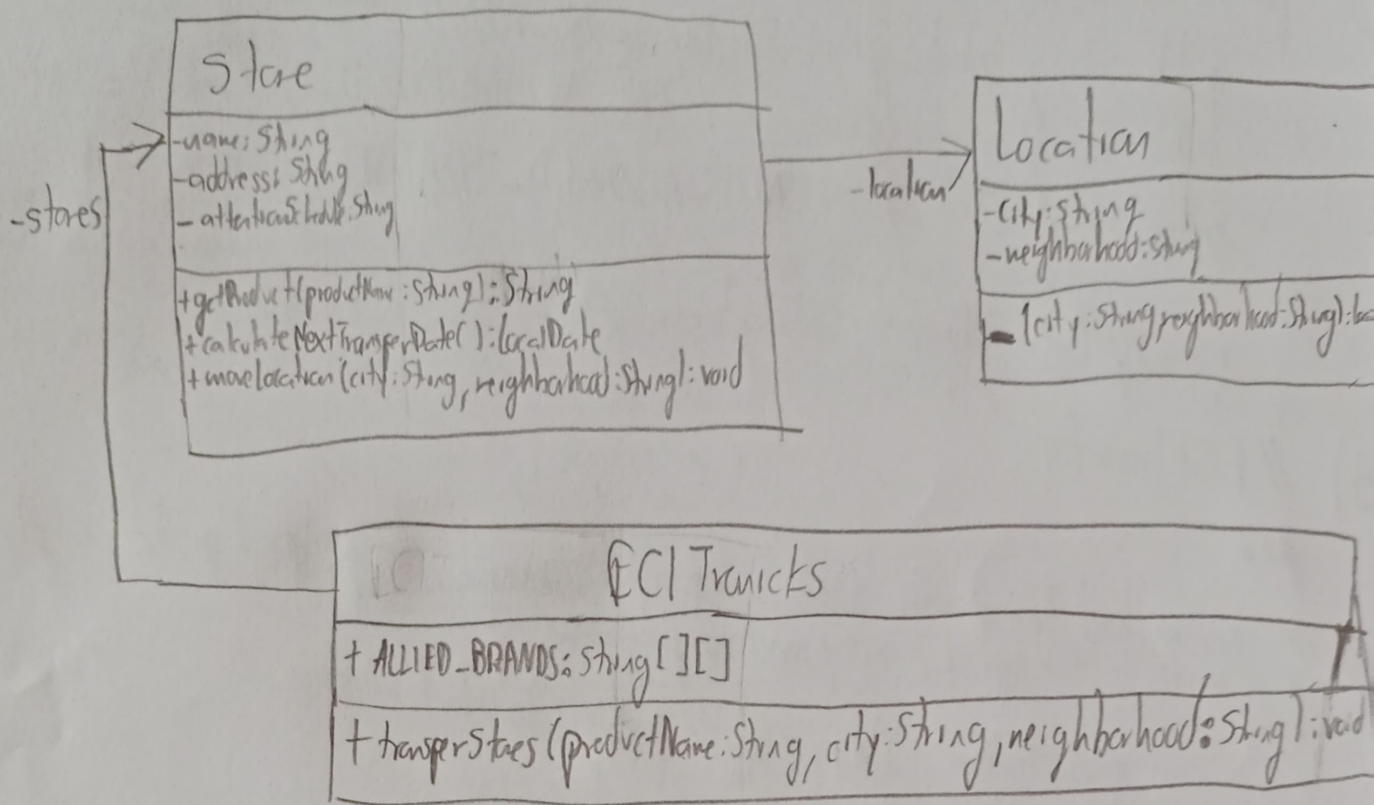


I Implementation
MDD

2)



3) public class ECITronics {
 public String[][] static final ALLIED_BRANDS;
 private HashMap<String, Store> stores;

} public void transferStores(String productName, String city, String neighborhood) {

public interface PriceReduction {
 public void reducePrice(String productName, int percentage) {
 }

```

4) public class ECITronicsException extends Exception {
    public String static final PRODUCT_NO_FOUND = "There is no product with that name".
    public String static final CITY-AND-NEIGHBORHOOD-REQUIRED = "If city or neighborhood
    public String static final NOT-ALLOWED-TRANSFER = "If the transfer rate per the store
    has not been met yet or if no
    store could be transferred";

    public ECITronicsException(String message) {
        super(message);
    }
}

```

```

5) // ECITronics

```

```

/**

```

* This method transfer the location of all stores with the specified product in stock. The transfer
 * is made to the specific city and neighborhood

* @param productName The name of the product to check in store

* @param city City to move the mobile store

* @param neighborhood Neighborhood to move the mobile store

* @throws ECITronicsException three different exceptions

```

**/

```

```

public void transferStores(String productName, String city, String neighborhood) throws ECITronicsException {

```

```

    for (Store nombreTienda : stores.values()) {

```

```

        if (nombreTienda.getProduct().equals(productName) && nombreTienda instanceof MobileStore) {

```

```

            nombreTienda.calculateNextTransp.Date();

```

```

            nombreTienda.moveLocation(city, neighborhood);

```

```

        }

```

```

    }

```

```

    catch (ECITronicsException e) {

```

```

        System.out.println(e.getMessage());

```

```

    }

```

```

}

```


// Store

/**

* Obtain the product

* @param productName the name of the product

* @return The product

* @throws ECITronicsException Product_No_Found

*/
public String getProduct (String productName) throws ECITronicsException

{
for (String p: products.keySet()) {

if (p.equals(productName)) {

return p;

}

else {

return "";

}

}

/**

* Calculate the next transfer date

* @return LocalDate

*/

public LocalDate calculateNextTransferDate() {

a = this.getLastTransferRate();

b = this.getTransferRate();

return (a+b);

}

// Location

public void setLocation (String city, String neighborhood)

{
this.city = city;

this.neighborhood = neighborhood;

}

// MobileStore

public LocalDate getLastTransferDate() {

return lastTransferDate;

public LocalDate getTransferRate() {

return transferRate;

}

/**

* Move Location

*

* @param city city

* @param neighborhood Neighborhood

*/

public void moveLocation (String city, String neighborhood) throws ECITronicsException

{
d = this.calculateNextTransferDate();

if (d != null && d < LocalDate.now()) {

this.setLocation (city, neighborhood);

}

else {

throw new ECITronicsException (ECITronicsException.NOT_AVAILABLE);

}

// Location

public Location (String city, String neighborhood)

{
throws ECITronicsException

if (city.equals("") || neighborhood.equals("")) {
throw new ECITronicsException (ECITronicsException.CITY_NO);

I Diseñando

Interface PriceReduction

```
public void reducePrice(String productName, int percentage) {
```

/**

* Reduce price

* @param productName Name of the product

* @param percentage Percentage

*/

}

II Extendiendo

Requisitos para sobrescribir un método

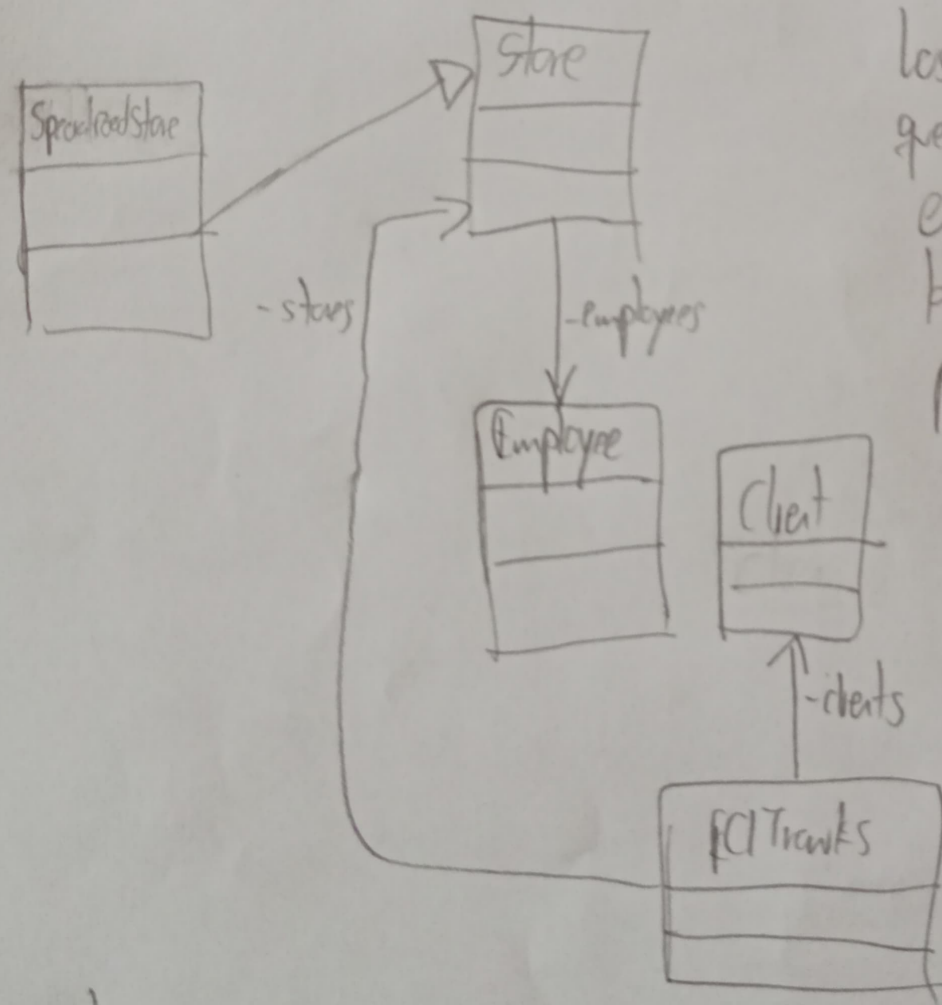
Método definido en clase padre (super clase)

Nombre, parámetros deben ser los mismos

Visibilidad del método sobrescrito igual ^{accesibilidad} que el método original

Método no final

Ejemplo: Método declarado como final en la clase padre



Los cambios necesarios hacen que otra clase **SpecializedStore** se extienda de **Store**, y separen las clases que se necesitan para esta III parte

SOLID

open-closed Principle: se extiende más no se modifica porque no se altera el comportamiento de **Store** al tener otra clase que almacena propiamente **SpecializedStore**

IV Conceptos

Polimorfismo: Un objeto de una clase se comporta de diferentes maneras. Diferentes métodos-clases responden de manera diferente a una sola instrucción

Una clase Animal puede makeSound(), una clase Perro() y clase Gato() sobrescriben el método para cada uno implementarlo a su manera