Spring Boot Introduction Lab

1. Functionality Overview

The application should be able to easily accept hard-formatted. The application is called – Super Market. Look at the pictures below to see what must happen:

When you've ran the project:

```
Ηi
Choose option from:
1 - for Add Category
2 - for Add Town
3 - for Add Shop
4 - for Add Seller
5 - for Add Product
6 - for Set seller new manager
7 - for Distributing product in shops
8 - for Showing all sellers in Shop
9 - for Showing all products in Shop
```

Successfully adding a new category:

```
Enter category name:
Food
Successfully added category!
_____
```

Invalid category name message:

Name must be minimum two characters!

















Successfully adding a new town: Enter town name: Sofia Successfully added town! Successfully adding a new shop: 3 Enter shop details in format: name address town Pila Tintqva-273 Sofiq Successfully added shop! • Successfully adding a new seller: Enter seller details in format: firstName lastName age salary shopName Ivan Petrov 24 1500 Pila Successfully added seller! Successfully adding a new product: Enter product details in format: name price bestBefore(dd-MM-yyyy) category Bread 1 03-05-2020 Food Successfully added product! Successfully setting a manager: Enter seller first and last names: Ivan Petrov Enter manager first and last names: Petur Stefanov Successfully added manager! Successfully distributing products to shops:

Enter product name:

Bread

Enter product distribution in Shops names in format [shopName1 shopName2 ...]:

Successfully added product distribution!









Showing all sellers in a specific shop:

Enter shop name:

Pila

Ivan Petrov

Petur Stefanov

• Showing all products in a specific shop:

Enter shop name:

Pila

Bread - 1.00 \$

2. Model Definition

There are 5 main models that the **Super Market database** application should contain in its functionality.

Design them in the most appropriate way, considering the following data constraints:

Town

- id a char sequence
- name a char sequence

Shop

- id a char sequence
- address a char sequence. It's unique and cannot be null. Must be at least 2 characters.
- name a char sequence. Must be at least 2 characters.

Seller

- id a char sequence
- **firstName** a **char sequence.** Cannot be **null.** Must be at least **2 characters.**
- lastName a char sequence. Cannot be null. Must be at least 2 characters.
- age an integer. Cannot be null. The person must be at least 18 years old.
- salary a number (must be a positive number). Cannot be null.

Category

- id a char sequence
- name a char sequence. It's unique and cannot be null. Must be at least 2 characters.

Product

- id a char sequence
- bestBefore a date
- description a very long char sequence
- name a char sequence. Cannot be null. Must be at least 2 characters.
- price a number (must be a positive number). Cannot be null.

















NOTE: Name the entities and their class members, exactly in the format stated above. Do not name them in snake case with the dashes, of course.

Relationships

Your partners gave you a little hint about the more complex relationships in the database, so that you can implement it correctly.

One **Shop** may be in only one **Town**, and one **Town** may have many **Shops**.

One **Seller** may be in only one **Shop**, and one **Shop** may have many **Sellers**.

One Product may have only one Category, and one Category may have many Products.

One **Product** may be in many **Shops**, and one **Shop** may have many **Products**.

















