40-FitFoodie

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Vision

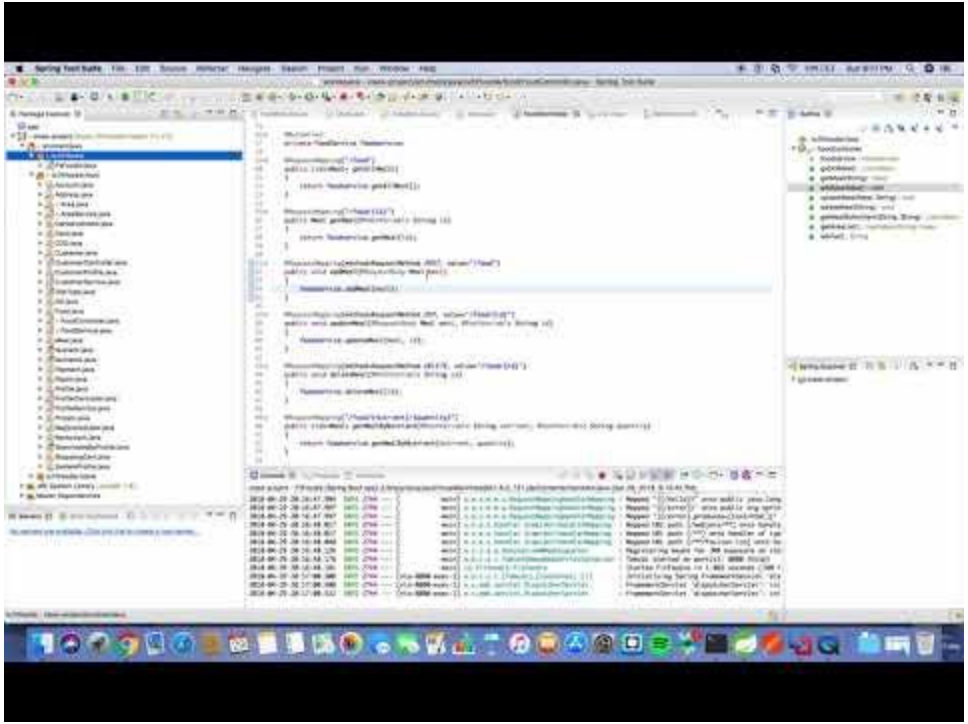
Building a web based system by leveraging object oriented frameworks and applying object oriented design patterns

Description

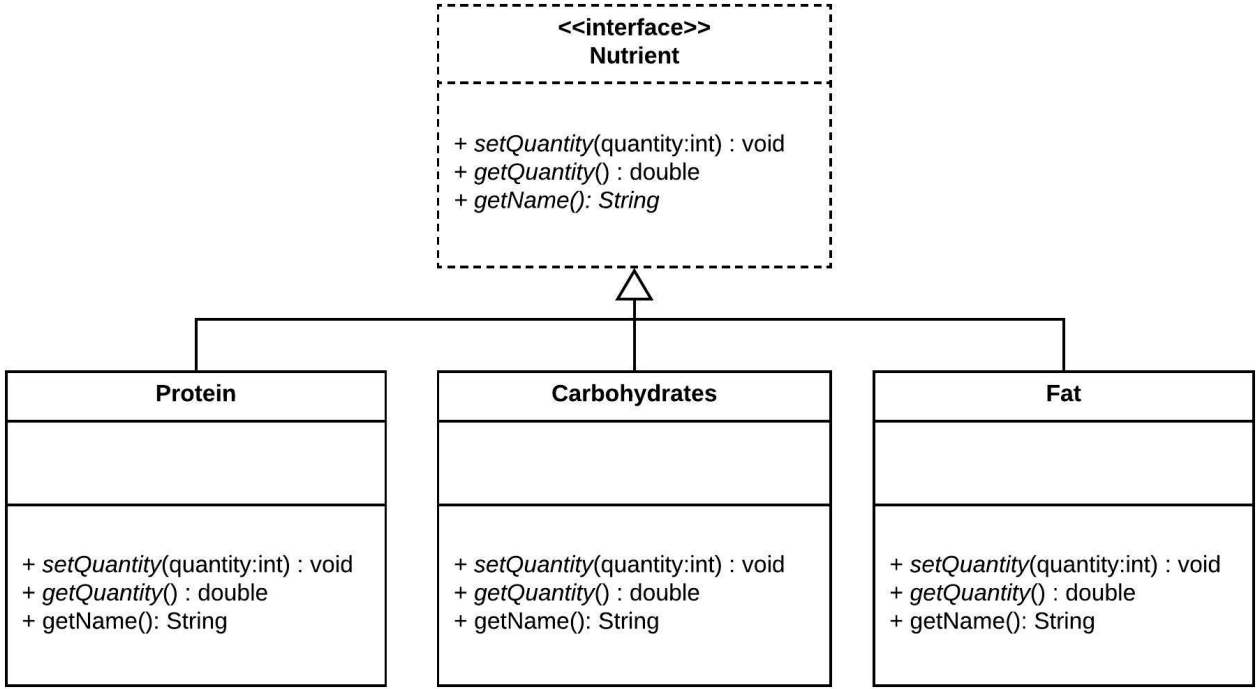
A web-based system that enables users to order food based on their nutritional preferences

We used Java Spring boot framework.

Demo



Strategy

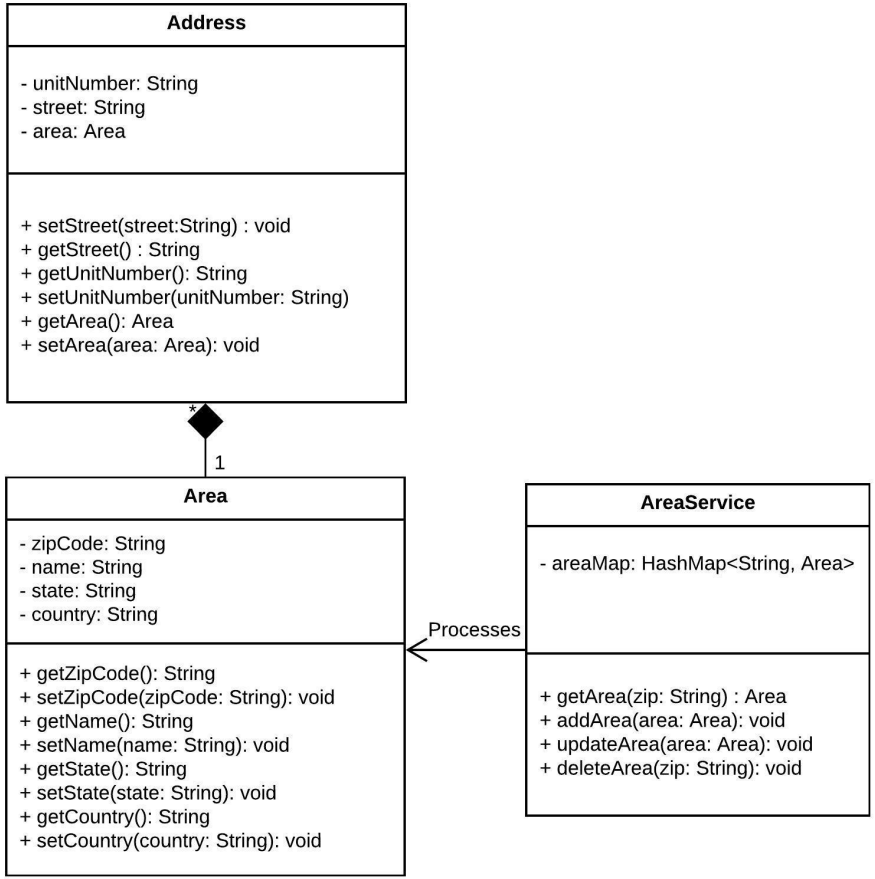

<<interface>>
Nutrient
+ setQuantity(quantity:int) : void
+ getQuantity() : double
+ getName(): String
Protein
+ setQuantity(quantity:int) : void
+ getQuantity() : double
+ getName(): String
Carbohydrates
+ setQuantity(quantity:int) : void
+ getQuantity() : double
+ getName(): String
Fat
+ setQuantity(quantity:int) : void
+ getQuantity() : double
+ getName(): String

Code snippet

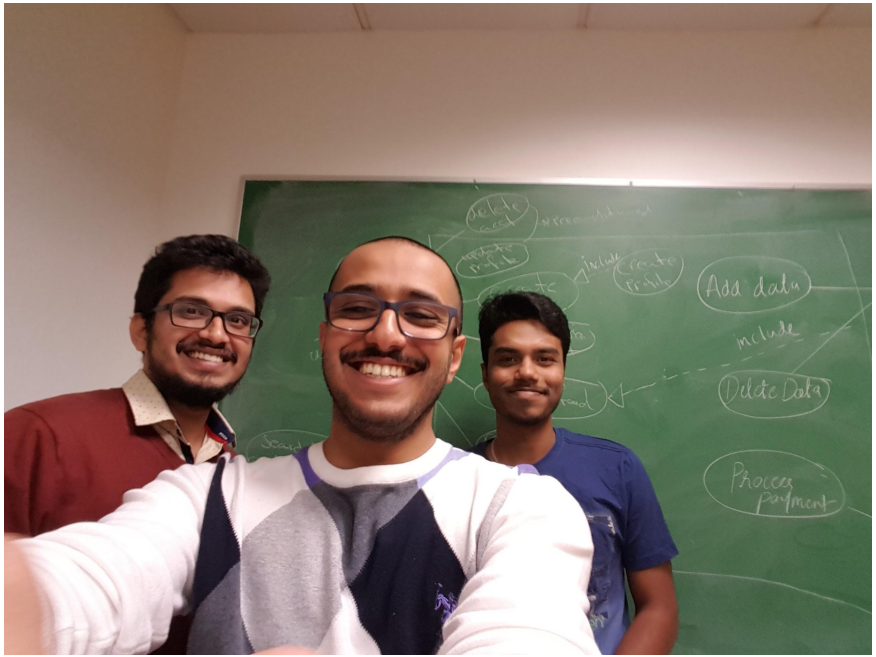
```
public List<Meal> getMealByNutrient(String nutrient, String quantity) {
        int quant = Integer.parseInt(quantity);
        List<Meal> foodbynutrient = new ArrayList<>();

        for(Meal meal : foodlist) {
                for (Nutrients n : meal.getNutrients()) {
                        if (nutrient.equals(n.getName()) && n.getQuantity() >= quant ) {
                                foodbynutrient.add(meal);
                                break;
                        }
                }
        }
        return foodbynutrient;
}
```

Flyweight


Address
- unitNumber: String
- street: String
- area: Area
+ setStreet(street:String) : void
+ getStreet() : String
+ getUnitNumber(): String
+ setUnitNumber(unitNumber: String)
+ getArea(): Area
+ setArea(area: Area): void
*
1
Area
- zipCode: String
- name: String
- state: String
- country: String
+ getZipCode(): String
+ setZipCode(zipCode: String): void
+ getName(): String
+ setName(name: String): void
+ getState(): String
+ setState(state: String): void
+ getCountry(): String
+ setCountry(country: String): void
Processes
AreaService
- areaMap: HashMap<String, Area>
+ getArea(zip: String) : Area
+ addArea(area: Area): void
+ updateArea(area: Area): void
+ deleteArea(zip: String): void

Day 1 to Day N


Add data
include
Delete Data
Process payment

AGSO
UBIQUITI
NETWORKS
PUMA

Thank you