



# Nutrition Tracker

Presented by: Group 3

# Today's Presentation



OOP concepts intro



Flowcart



Class diagram

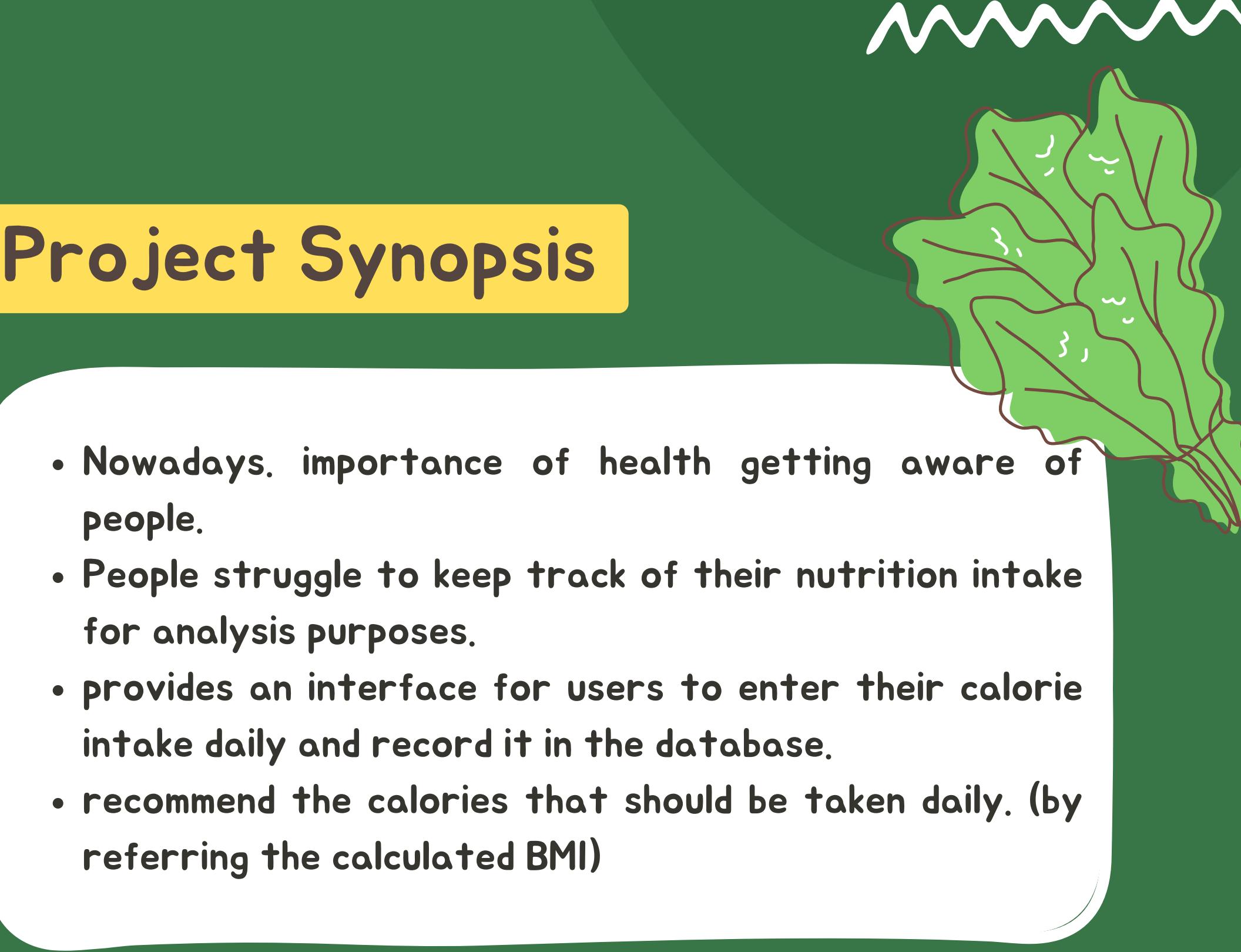


System demo



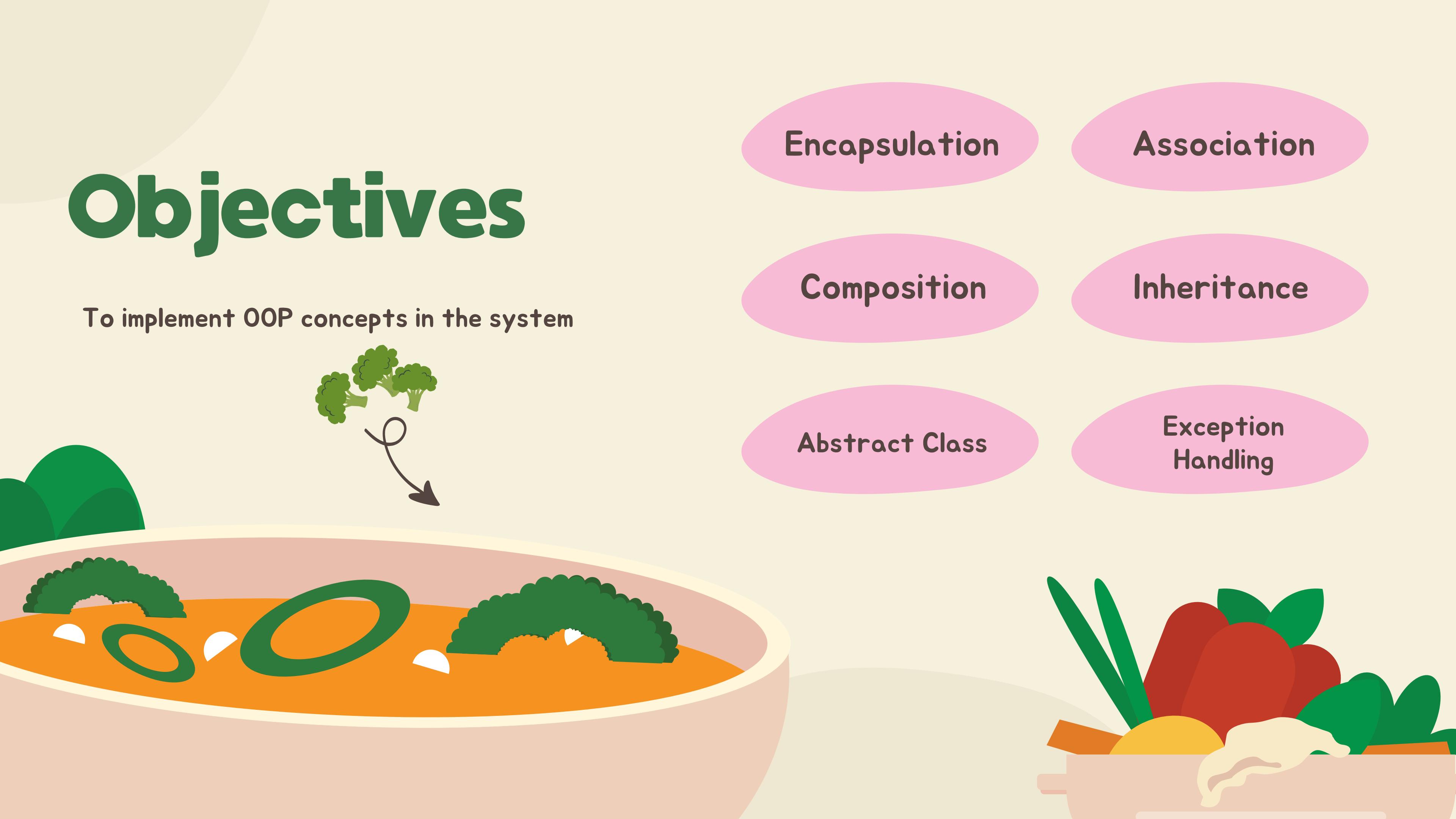


## Project Synopsis

- Nowadays, importance of health getting aware of people.
  - People struggle to keep track of their nutrition intake for analysis purposes.
  - provides an interface for users to enter their calorie intake daily and record it in the database.
  - recommend the calories that should be taken daily. (by referring the calculated BMI)
- 

# Objectives

To implement OOP concepts in the system



Encapsulation

Composition

Abstract Class

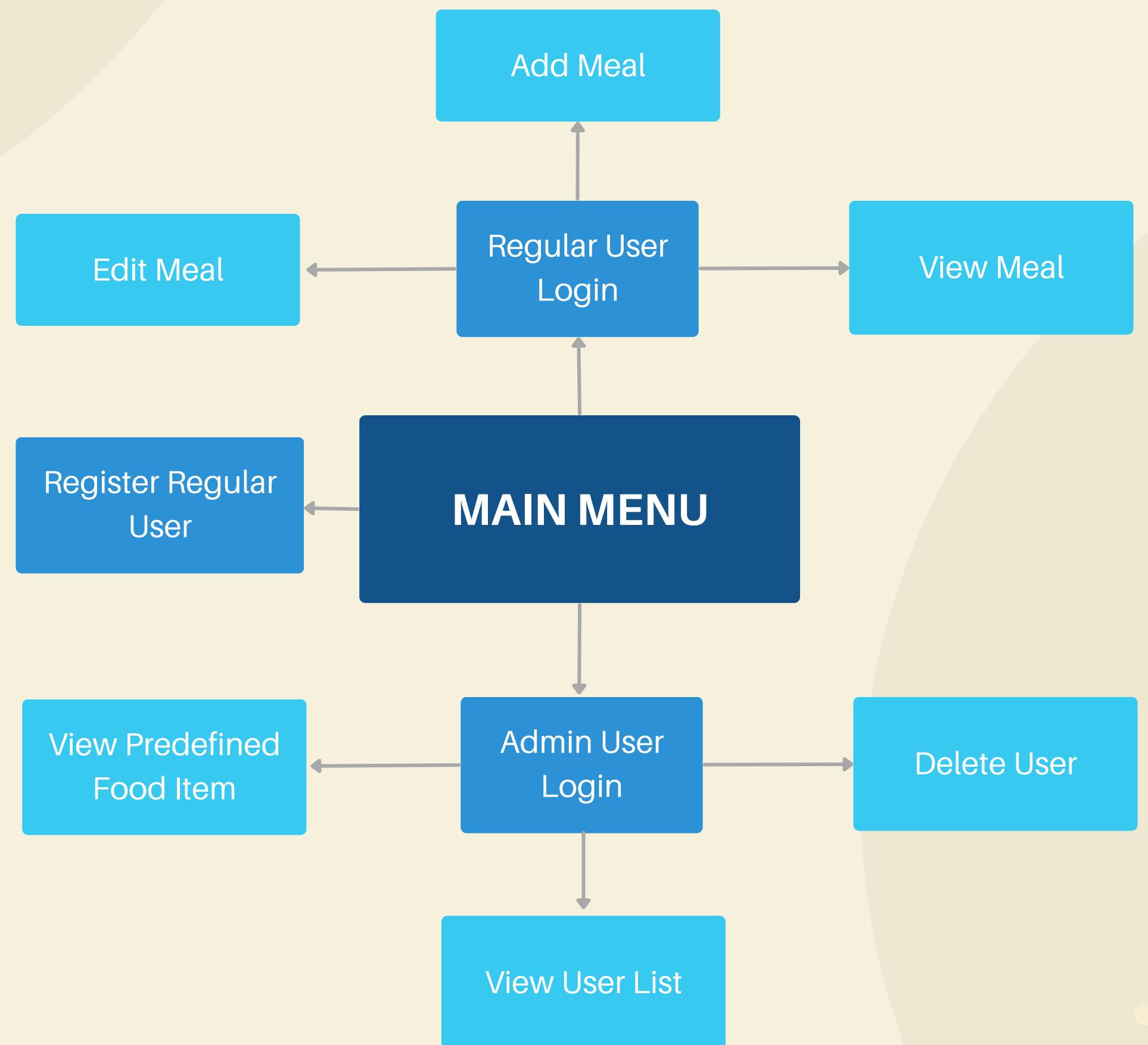
Association

Inheritance

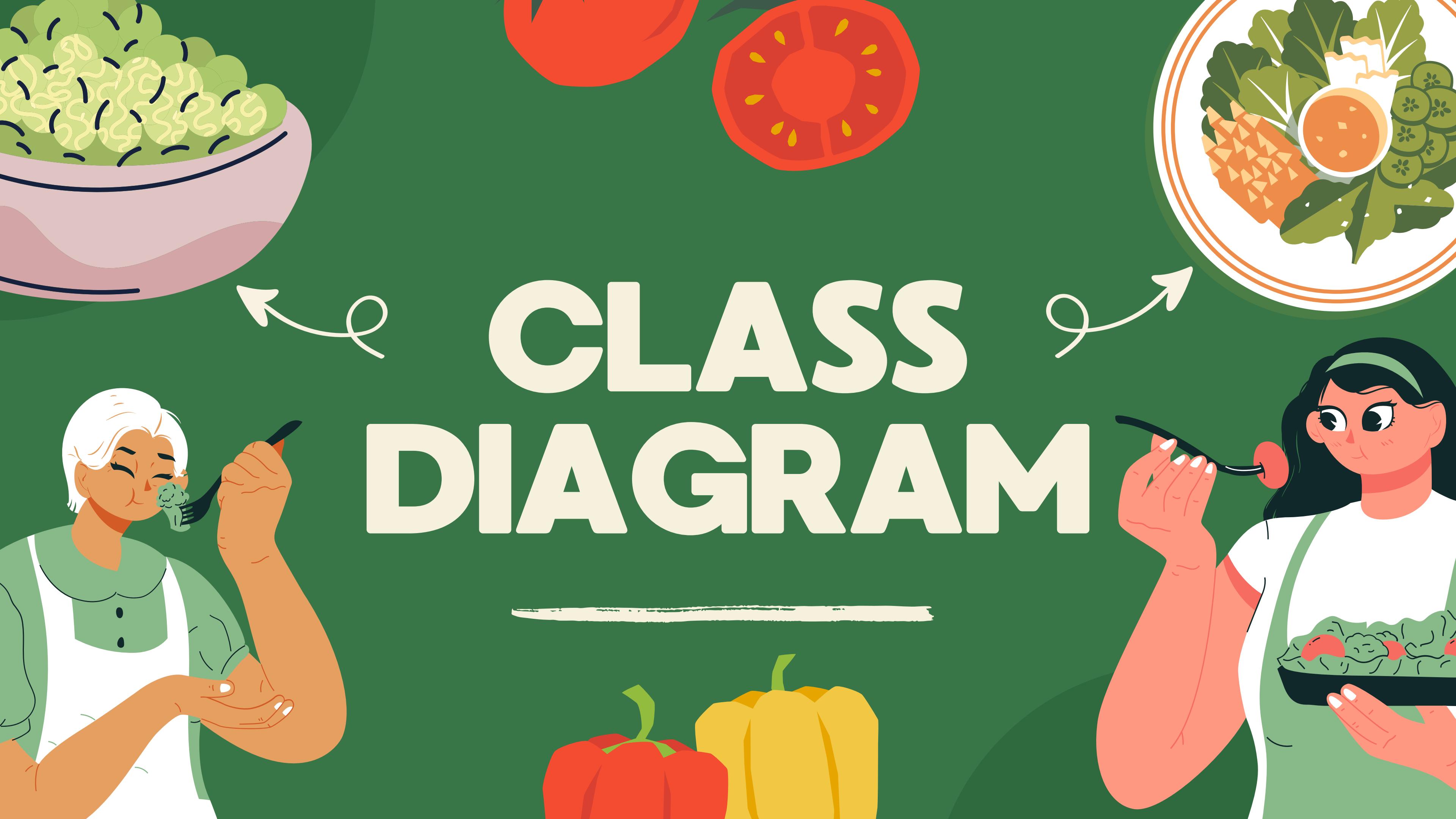
Exception  
Handling

# SIMPLIFIED FLOW CHART



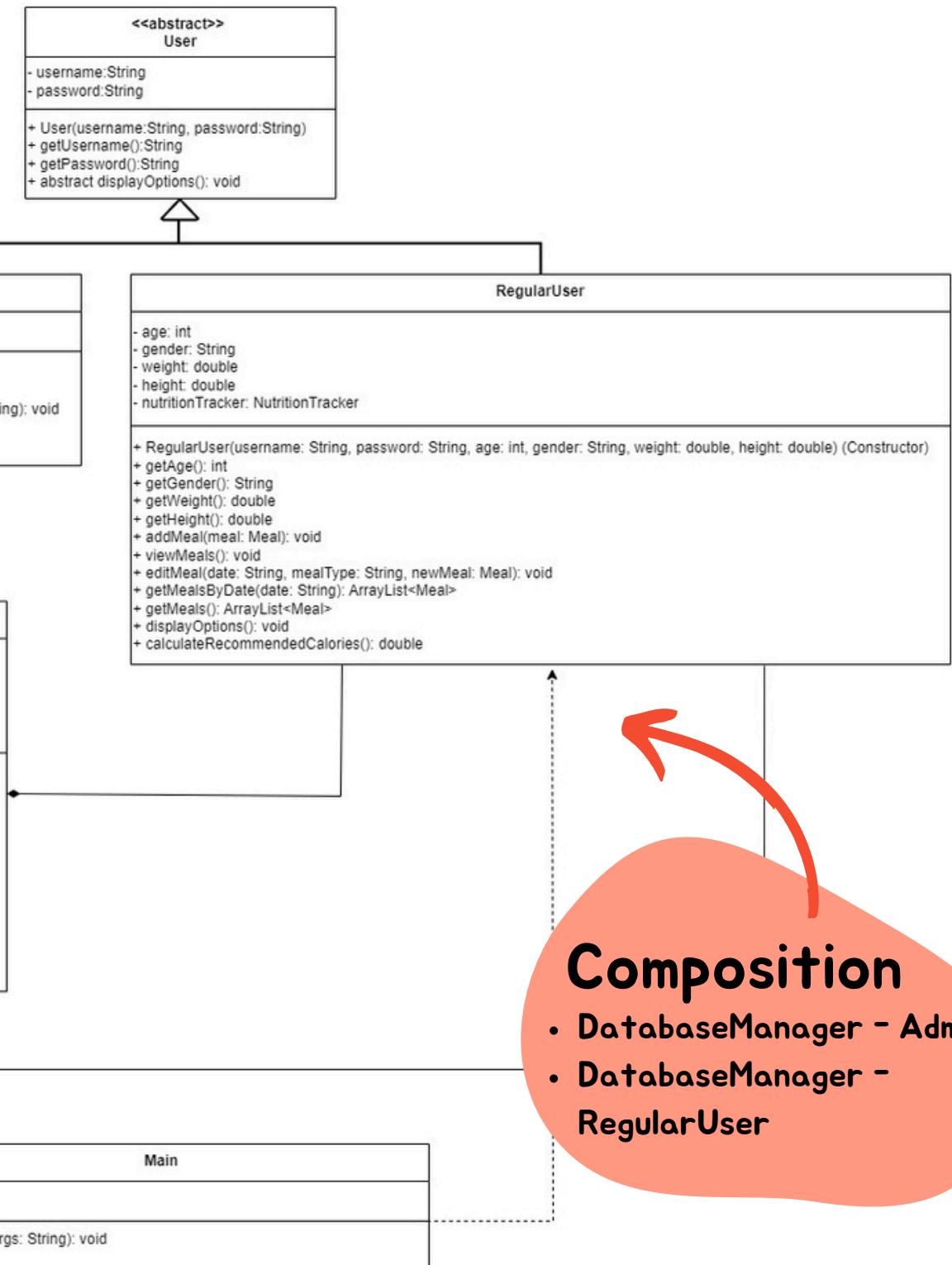


# CLASS DIAGRAM



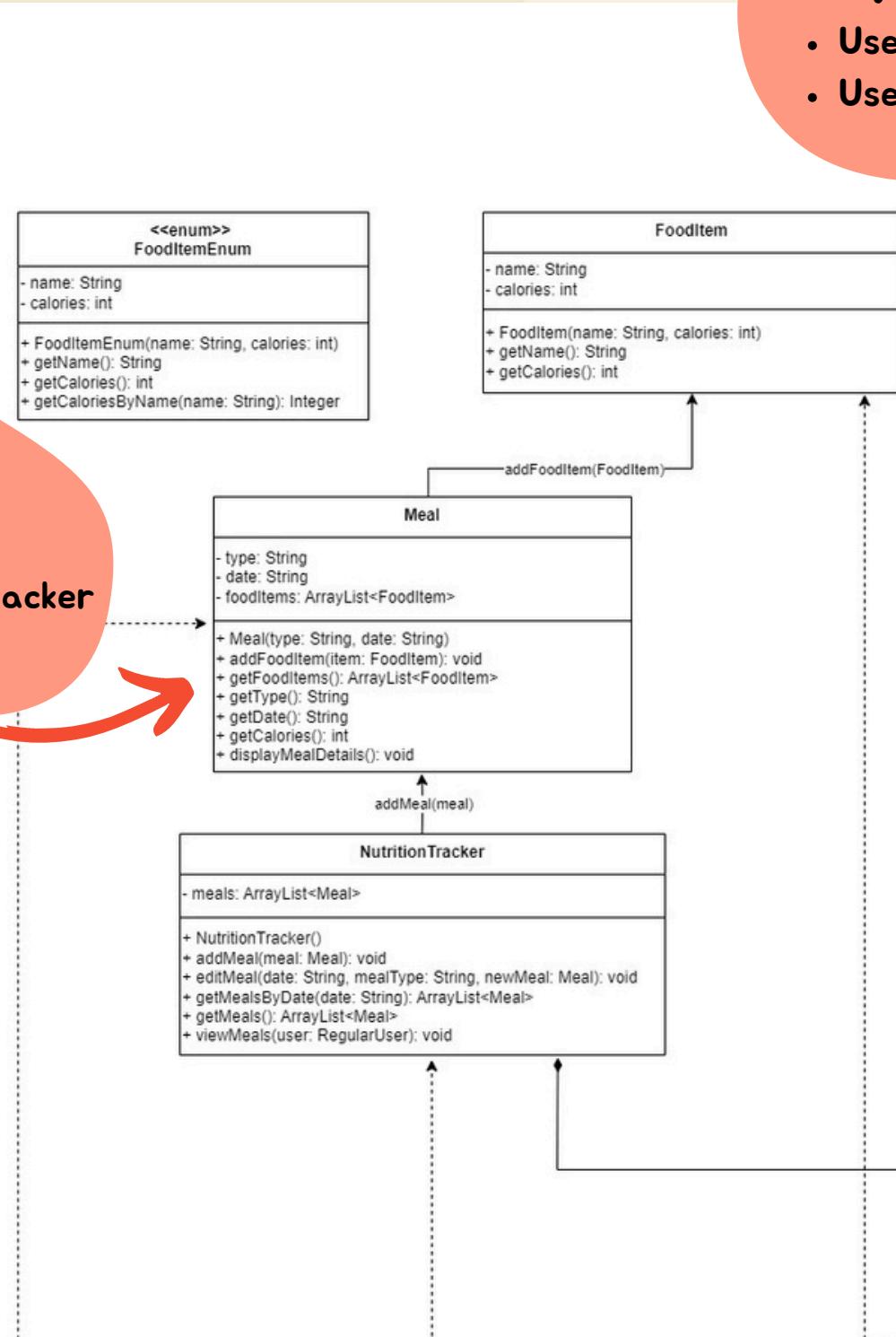
# Inheritance & Polymorphism

- User- Admin
- User- RegularUser



# Association

- Meal - FoodItem
- Meal - NutritionTracker



- # Composition
- DatabaseManager - Admin
  - DatabaseManager - RegularUser

## **Encapsulation and Data Hiding**

**Implemented through private fields and public getter/setter methods.**

## **Exception Handling**

**Custom exception class InvalidFoodException is implemented.**

```
1 package GroupProject;    InvalidFoodExceprtion.java is
2
3 public class InvalidFoodExceprtion extends Exception {
4     public InvalidFoodExceprtion(String message){
5         super(message);
6     }
7 }
```

# System demo session





# THANK YOU

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Do you have any questions?