Online Recipe-Sharing Platform

Alisha Chowhan, Jay Ma, Jyothi Shankar

Overview

- **online recipe-sharing platform allowing users to share and browse their favorite recipes using encapsulation, inheritance, polymorphism, and abstraction**

- **inspiration: Tasty App**

Functionalities

- **User or admin option**

  - **User:**
    - **Add and view recipes**

  - **Admin:**
    - **Manage user and recipes**

    - **Add, delete, views recipes**

- **Registration and login**

- **Logout**

Inheritance

- **User and Admin Class (Account ← User ← Admin)**

- **Recipe ← Savory and Sweet**

- **Sweet ← Hot and Cold**

- **Savory ← Vegetarian and Nonvegetarian**

Abstraction

- **Account Class (provides structure for User and Admin classes)**

- **Recipe Class (provides structure for Savory and Sweet Classes)**

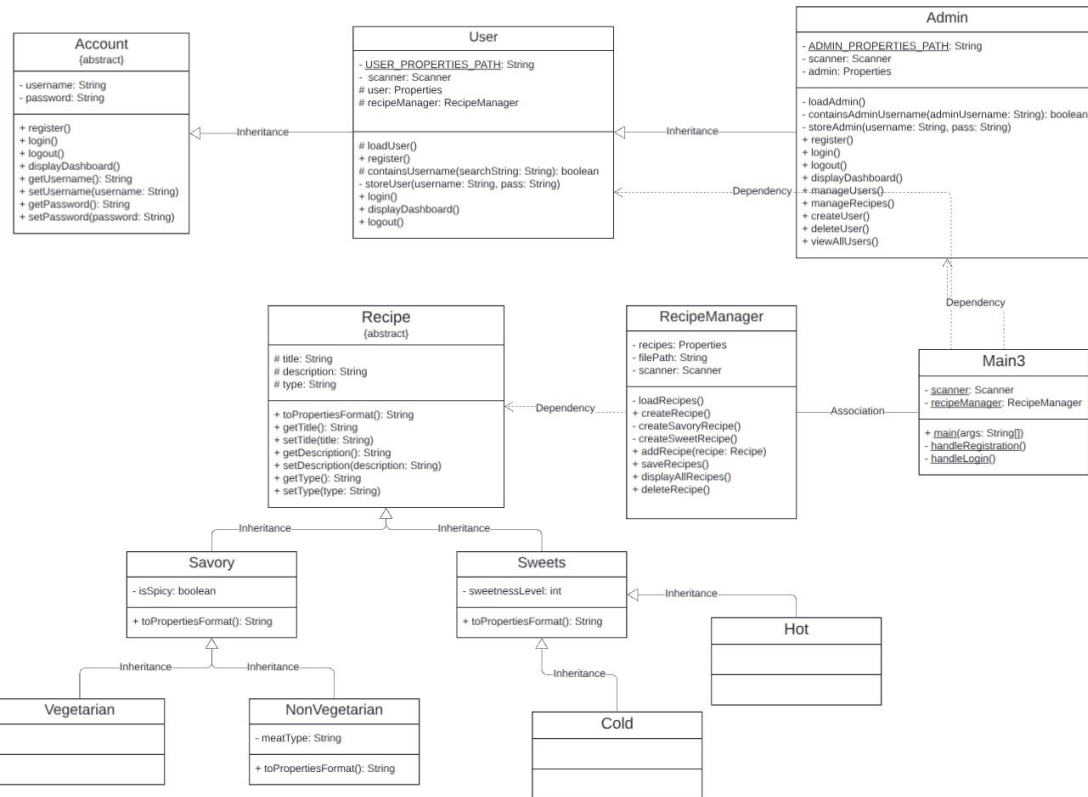# Encapsulation

- **Account Class, Recipe Class**

  - **Getter and Setter methods used as a means to get access to private variables**

Polymorphism

- **Constructors for Account, User, and Admin Class**

    - **register(), login(), logout(), and displayDashboard() methods**

Account
{abstract}

- username: String
- password: String

+ register()
+ login()
+ logout()
+ displayDashboard()
+ getUsername(): String
+ setUsername(username: String)
+ getPassword(): String
+ setPassword(password: String)

User

- USER_PROPERTIES_PATH: String
- scanner: Scanner
user: Properties
recipeManager: RecipeManager

loadUser()
+ register()
# containsUsername(searchString: String): boolean
# storeUser(username: String, pass: String)
+ login()
+ displayDashboard()
+ logout()

Admin

- ADMIN_PROPERTIES_PATH: String
- scanner: Scanner
- admin: Properties

+ loadAdmin()
+ containsAdminUsername(adminUsername: String): boolean
- storeAdmin(username: String, pass: String)
+ register()
+ login()
+ logout()
+ displayDashboard()
+ manageUsers()
+ manageRecipes()
+ createUser()
+ deleteUser()
+ viewAllUsers()

←— Inheritance

←— Inheritance

←···· Dependency

Recipe
{abstract}

title: String
description: String
type: String

+ toPropertiesFormat(): String
+ getTitle(): String
+ setTitle(title: String)
+ getDescription(): String
+ setDescription(description: String)
+ getType(): String
+ setType(type: String)

RecipeManager

- recipes: Properties
- filePath: String
- scanner: Scanner

- loadRecipes()
+ createRecipe()
- createSavoryRecipe()
- createSweetRecipe()
+ addRecipe(recipe: Recipe)
+ saveRecipes()
+ displayAllRecipes()
+ deleteRecipe()

Main3

- scanner: Scanner
- recipeManager: RecipeManager

+ main(args: String[])
- handleRegistration()
- handleLogin()

····· Dependency

←···· Dependency

—— Association

Dependency

Savory

- isSpicy: boolean

+ toPropertiesFormat(): String

Sweets

- sweetnessLevel: int

+ toPropertiesFormat(): String

←— Inheritance

Hot

Vegetarian

NonVegetarian

- meatType: String

+ toPropertiesFormat(): String

Cold

←— Inheritance ←— Inheritance ←— Inheritance

Demo

Thank You!