# Recipe Manager

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# 1. About

Recipe Manager is command line interface application. This application helps to view all the recipes in the list. It has two people in the application. They are User and the Dietician. They perform the tasks according to their roles. We can navigate to the application only by typing the required number from the option list. Typing 0 and pressing enter in any part of the application will send you back to the main menu. This application provides all the information of the recipes in the list.

# 2. Project Overview

The application is a command line interface (terminal) application that does not have a graphical user interface. The user only navigates by typing a number from an option list and then press enter to execute the command. Typing 0 and pressing enter in any part of the application will send you back to the main menu.

#### 2.1 Project Roles

There are two persons in the project, who performs their roles. The main menu of this application shall be shown below:

```
** Welcome To Recipe Manager **

Main menu options:
[1] User
[2] Dietician
[0] Quit
Choose an option and press enter:
```

#### 2.1.1 User

When the user enters option # 1, the app must show the user. Then by entering the option 1, the tasks performed by the user shall be displayed in the terminal.

- 1. List of My Weeks
- 2. View Current Week Recipes
- 3. View Recipes
- 4. Generate New Week

The screenshot of this shall be shown below

```
** Welcome To Recipe Manager **

User menu options:
[1] List Of My Weeks
[2] View Current Week Recipies
[3] View Recipes
[4] Generate New Week
[0] Back
Choose an option and press enter:
```

#### 2.1.2 Dietician

When the user enters option #2, the app must show the dietician. Then by entering the option 2, the tasks performed by the user shall be displayed in the terminal.

1. Create recipe

- 2. View recipe
- 3. Update recipe
- 4. All Recipes

The screenshot of this shall be shown below

```
** Welcome To Recipe Manager **

Dietician menu options:

[1] Create Recipe

[2] View Recipe

[3] Update Recipe

[4] All Recipes

[0] Back

Choose an option and press enter:
```

# 3. Implementation and Design

# 3.1 Technologies

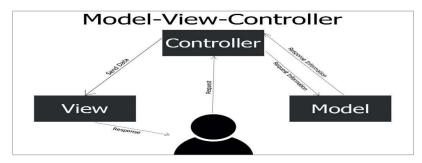
The following technologies are used in designing and developing the Recipe Manager application.

- 1. Java Coding language for implementing the recipe manager application
- 2. Eclipse IDE Purpose
- 3. Microsoft Visio UML Diagram tool
- 4. Microsoft word Document preparation

# 3.2 Design and Flow diagram

## 3.1.1 Architecture and design

Simple MVC architecture shall be followed in designing the Recipe Manager application, see below.



The Model contains only the pure application data, it contains no logic describing how to present the data to a user.

The View presents the model's data to the user. The view knows how to access the model's data, but it does not know what this data means or what the user can do to manipulate it.

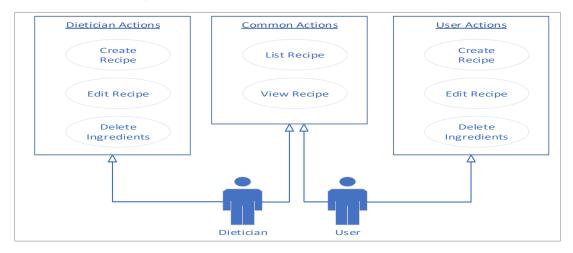
The Controller exists between the view and the model. It listens to events triggered by the view (or another external source) and executes the appropriate reaction to these events. In most cases, the

reaction is to call a method on the model. Since the view and the model are connected through a notification mechanism, the result of this action is then automatically reflected in the view.

Next, the view module is mainly responsible for preparing the menus by using controller cache data based on the *User* choice.

## 3.2.1 Usecase diagram

A Use case diagram is a graphical depiction of a user's possible interactions with a system. Here there are two persons .They are User and Dietician. The below diagram shows the interaction of user and dietician with the system.



## 3.2.2 Class Diagram

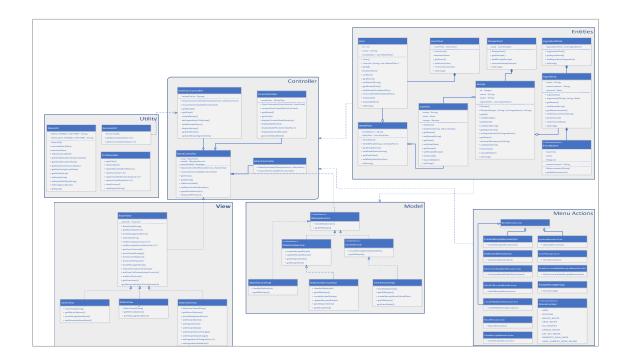
This section shall be explained about the relationship between different classes.

Model: All the model classes shall be followed java bean's structure and implemented JAXB API

**Controller**: Here there are three controllers in the application. They are User Controller, Dietician Controller, Main Controller and Base Controller These interact with the Base Controller and controls the application.

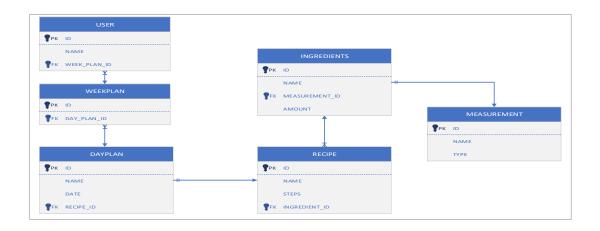
**View:** The *RecipemanagerView.java* is responsible for building the user interface and displayed in the terminal/console based on the user inputs and performs the validation checks. We have also four views. They are User View, Dietician View, Main view, Base view.

- 1 Meu Context enumeration shall be used for constants purpose and holds the menus title.
- 2 Measurement enumeration shall be holding constant measurement purpose in the recipe pool.



# 3.2.3 Model diagram

The below picture explains about the module relationship and the below four models are introduced in Recipe manager application.

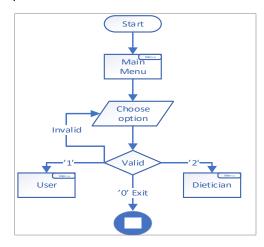


# 3.2.4 Flow Chart of Recipe Manager

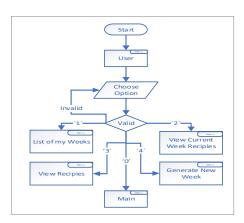
This section helps to identify the different menus mandatory steps and explains the execution flow.

## 3.2.4.1 Main

The main menu shall be shown to the user initially, it will provide few options as described in below picture.



#### 3.2.4.2 User Role



# 3.2.4.2.1 List of My Weeks

When pressing option #1 in the main menu, the app must show user .When we enter the option #1,the user ,all the user actions are displayed.. When the user enters the option 1, he shall see all the list of the weeks that are present in the application. The screenshot of the above task shall be displayed in the below figure.

```
Welcome To Recipe Manager
List of my weeks menu options:
[1] WEEK 33
[2] WEEK 34
[3] WEEK 35
[4] WEEK 36
[0] Back
Choose an option and press enter: 1
[1] MONDAY
                ITALIAN STUFFED CHICKEN
[2] TUESDAY
                BUTTER CHICKEN
[3] WEDNESDAY
                BAKED VEGETABLES
    THURSDAY
                YORKSHIRE LAMB PATTIES
                VEG FRIED RICE
   FRIDAY
[6]
   SATURDAY
                BATTER FISH
[7] SUNDAY
                TAMARIND RICE
[0] Back
Choose an option and press enter:
```

When the user enters the option #1, he shall see all the recipes of that particular week. The screenshot of this is shown below.

#### 3.2.4.2.2 View Current Week Recipes

When pressing option #2, the app must show all the list of the current week recipes to the user in the terminal. Here the user shall see all the recipes of the current week. If the user wants to see the recipe ingredients and steps, then he can also press any one of the options from the current week. After that he can continue or quit from the application. The screenshot of the above task shall be displayed in the below figure.

```
* Welcome To Recipe Manager **
View Current Week recipie menu options:
   MONDAY
              BIRYANI
   TUESDAY
              ITALIAN STUFFED CHICKEN
   WEDNESDAY
              VEG FRIED RICE
[4] THURSDAY
              BUTTER CHICKEN
[5] TODAY **
              CHICKEN STEAK
[6] SATURDAY
              BAKED VEGETABLES
[7] SUNDAY
              CHICKEN TANDOORI
[0] Back
Choose an option and press enter: 1
Name: Tuesday
Recipes:ITALIAN STUFFED CHICKEN
Ingredients: [CHOPPED OLIVES OR SUNDRIED TOMATOES (2.0, PC), FULL-FAT SOFT CHEESE (2.0, KG), SKINLESS CHICKEN BREASTS (1.0, KG), RIPE TOMATOES (4
Steps:
1.Heat oven to 220C/fan 200C/gas 7. Beat the olives or sundried tomatoes, garlic and almost all the herbs into the cheese, then season. Cut a slit
Stuff each breast with a quarter of the cheese mix, then press to close. Lift onto a greased baking tray.
B.Roast for 20 mins until the chicken is golden around the edges and the tomatoes look a little shrivelled.
4. Serve with a green salad and crusty bread to mop up the juices.
Options:
[C] Continue
[Q] Quit
```

#### 3.2.4.2.3 View Recipes

When pressing the option #3, the user shall see all the recipes in the recipe pool. If the user wants to view any one of the recipes. He can enter the id of that recipe. Then he shall view the ingredients

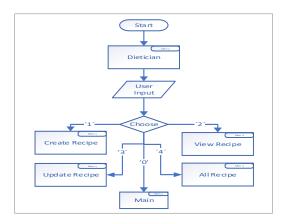
and steps of the recipe. After finishing if he wants to continue, he can enter 'c' or 'q' to quit the application. The screenshot of the above is shown here:

#### 3.2.4.2.4 Generate New Week

When pressing option #4, the app should allow you to generate a new week by entering the recipes. You shall see the week name ,date and time. It shall ask you to enter a day name. When you enter the name ,it will show all the recipes available. You can add any recipe to that day. It will ask you ,do you want to generate. If yes, you can further continue and add it. Otherwise you can say no and quit the application. The screenshot of the above is shown here:

```
Welcome To Recipe Manager
  enerate New Week menu options:
    Monday 2022-08-22
Tuesday 2022-08-23
Wednesday 2022-08-24
Thursday 2022-08-25
Friday 2022-08-26
Saturday 2022-08-27
                                                            ******
      Sunday
                                                            ******
Choose an option and press enter: 1
Day Name: Monday
Date: Mon Aug 22 00:00:00 CEST 2022
                                                                        [2 ] BIRYANI
[6 ] BATTER FISH
 [1 ] ITALIAN STUFFED CHICKEN
                                                                                                                                                    ] ROESTI AND SALAD
                                                                                                                                                                                                                        [4] PANEER STEAK
      KHAO SOI
                                                                                                                                                      ROSEMARY CHICKEN
                                                                                                                                                                                                                               CHICKEN STEAK
                                                                        [10] BAKED VEGETABLES
[14] DOSA
      BUTTER CHICKEN
                                                                                                                                                      YORKSHIRE LAMB PATTIES
                                                                                                                                                                                                                               VEG FRIED RICE
                                                                                                                                                [15] BRINJAL CURRY
                                                                                                                                                                                                                        [16] SPINACH DAL
[13] TAMARIND RICE
Choose an option and press enter: 3
Want to Generate a New week [Yes/No]:no
Data successfully Saved/Updated
Options:
[C] Continue
[Q] Quit
```

#### 3.2.4.3 Dietician Roles



#### 3.2.4.3.1 Create Recipe

When pressing option#2 in the main menu, the dietician menu shall be displayed in the terminal. Here, the dietician when enters the option #1, which is used to create as recipe. It asks for the recipe name, ingredients and steps to be followed. The dietician enters the name, ingredients and the steps required for the recipe. After that, recipe shall be successfully added to the recipe pool. The screenshot of the above is shown here:

```
Create Recipe menu options:
  nter Recipe Name and press enter: idly
                                                                                  SEMI COOKED RICE (1.0, KG)
       MEAT (1.0, KG)
                                                                                                                                                              CURD (1.5, LTR)
                                                                                                                                                                                                                                   [4] LEMON JUICE (3.0, Pcs)
                                                                                 CARROTS (1.0, KG)
TOMATOES (0.5, KG)
COCONUT MILK (1.0, LTR)
                                                                                                                                                                                                                                         BUTTER (0.5, kg)
BREAD (2.0, PC)
       POTATOES (1.0, KG)
                                                                                                                                                              LOUKI (1.0, PC)
       COTTAGE CHEESE (1.0, KG)
                                                                                                                                                              CORIANDER LEAVES (1.0, PC)
      CHICKEN (1.0, KG)
LARGE ONIONS (3.0, Pc)
SODA WATER (0.5, LTR)
ROSEMARY TWIGS WITH LEAVES (8.0, PC)
                                                                                                                                                      [15] EGGS (4.0, PC)
[19] MAIDA (1.0, PC)
                                                                                                                                                                                                                                   [16] RICE NOODLES COOKED (0.5, kg)
                                                                                 | MAITE FIRM FLESH FISH FILLET (0.5, KG)
| BAKING POWDER (1.0, Pc)
| BAY LEAVES (3.0, PC)
| PEPPER POWDER (1.0, PC)
                                                                                                                                                                                                                                        EGG (1.0, PC)
GINGER GARLIC PASTE (1.0, PC)
                                                                                                                                                             BONELESS CHICKEN (1.0, KG)
BONELESS CHICKEN (0.5, KG)
                                                                                                                                                                                                                                         GREEN CHILLIES (1.0, PC)
GREEN CHILLIES (2.0, PC)
                                                                                                                                                              BONELESS CHICKEN PIECES (1.0, KG)
       EGGS (2.0, PC)
       CURD (0.5, LTR)
MILK (0.5, LTR)
                                                                                   TOMATOES (4.0, PC)
                                                                                                                                                              MIXED VEGETABLES (0.5, KG)
                                                                                                                                                                                                                                          CHEESE (3.0, PC)
                                                                                                                                                      [39] VEGETABLE OIL (0.1, LTR)
[43] CABBAGE (0.01, KG)
[47] MILK (0.1, LTR)
[51] CABBAGE (0.2, KG)
                                                                                 MAIDA (4.0, PC)
VEGETABLE OIL (0.01, LTR)
                                                                                                                                                                                                                                          HORSERADISH SAUCE (0.1, KG)
      LAMB MINCED (0.2, KG)
CAPSCICUM (3.0, PC)
VEGETABLES (0.2, KG)
                                                                                                                                                                                                                                  [44] CARROT (0.02, KG)
[48] RICE FLAKES (0.1, KG)
[52] BUTTER (0.1, KG)
                                                                           [46] RICE (0.1, KG)
[50] RICE (0.1, KG)
 53] BEETROOT (0.2, KG)
 (1.2, x6)

hoose mulitple options and press enter [e.g, 1,2]: 46,45

inter Steps and press enter [Type 'exit' to save the steps]:

Prepare idly batter

Pour as idlies in the idly maker
  Heat on the stove for 15 minutes
  Serve hot with chutney.
 Data successfully Saved/Updated
 ptions:
  C] Continue
Q] Quit
```

# 3.2.4.3.2 View Recipe

When pressing the option #2, the dietician shall see all the recipes in the recipe pool. If the user wants to view any one of the recipes. He can enter the id of that recipe. Then he shall view the ingredients and steps of the recipe. After finishing if he wants to continue, he can enter 'c' or 'q' to quit the application. The created recipe is shown in the below screenshot.

#### 3.2.4.3.3 Update Recipe

When entering option #4, the dietician shall see all the recipes in the recipe pool. He can enter the recipe that he wants to update. Here we can change the name, ingredients and steps that are required for updating recipe. Then the updated data will be added to the recipe pool successfully. The Screenshot of it is shown below.

```
Update Recipe manu options:

[1 ] ITALIAN STUFFED CHICKEN [2 ] BIRYANI [3 ] ROESTI AND SALAD [4 ] PANKER STEAK [5 ] KANA SOI [6 ] BATTER FISH [7 ] ROSEMARY CHICLES [11] TORKSHIBE LAWB PATTIES [12] FER FIED RICE [13] TAMARINO RICE [14] DOSA [15] BRINJAL CURRY [16] SPINACH DAL [17] TOLY (Choose an option and press enter: 4 Mant to change the recipe name [Ves/No] ?yes Enter Recipe Name and press enter: paneer steaks want to delete ingredient [Ves/No] ?yes

[1 ] MEAT (1.0, KG) [2 ] SEMI COOKED RICE (1.0, KG) [7 ] LOUKI (1.0, PC) [8 ] BUTTER (0.5, kg) [9 ] COTTAGE CHEESE (1.0, KG) [10] TOMATOES (0.5, KG) [11] CORIANDER LEAVES (1.0, PC) [12] BREAD (2.0, PC) [13] SHITER (0.5, KG) [17] LOUKI (1.0, PC) [18] BWITE FIRM FLESH FISH FILLET (0.5, KG) [17] LOUKI (1.0, PC) [18] BREAD (2.0, PC) [18] BWITE FIRM FLESH FISH FILLET (0.5, KG) [18] MATTER (0.5, LTR) [18] GREAT (0.5, LTR) [1
```

#### 3.2.4.3.4 All Recipes

When pressing the option #4, the dietician shall see all the recipes in the recipe pool. If he wants to continue the application, he enters 'c', otherwise q' to quit. The screenshot of the above is shown here:

```
Welcome To Recipe Manager *
Gell All Recipies menu options:
                                                                                                                                                        [4 ] PANEER STEAK
[8 ] CHICKEN STEAK
  ] ITALIAN STUFFED CHICKEN
                                                                                                     [3] ROESTI AND SALAD
                                                  [2 ] BIRYANI
                                                  [6 ] BATTER FISH
[10] BAKED VEGETABLES
                                                                                                          ROSEMARY CHICKEN
    KHAO SOI
    BUTTER CHICKEN
                                                                                                     [11] YORKSHIRE LAMB PATTIES
                                                                                                                                                         [12] VEG FRIED RICE
    TAMARIND RICE
                                                   [14] DOSA
                                                                                                                                                        [16] SPINACH DAL
                                                                                                     [15] BRINJAL CURRY
[17] IDLY
                                                  [18] PANEER STEAKS
 C] Continue
 Q] Quit
```