## **Assignment**

Personal Data (ID)

Goup Leader:

Member 1:

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Tee Le Xuan 2302521 AM

Component (60%)

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Total Mark:

#### **Submission Status**

No submission	Late submission	No C++ source	No text file	No report	No issue

#### Part 1 - Program Component (60%)

Components	Remarks	Max. Marks	Mark Scale Allocated	Mark Obtained
Menu and main program		10		
Read from file (building the arrays of structures)		4		
User, System, and File Update: Tracking		8		
User, System, and File Update: Review		8		
Creative Features		10		
Program Style: Indent Style/Blank Line		5		

Program Style: Identifier Names	5	

Presentation, including Q&A		10		
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## Part 2 - Report and other components (40%)

Components	Remarks	Max. Marks	Mark Scale Allocated	Mark Obtained
Solution Design		10		
Structure Chart		10		
Flowchart/Pseudocode		10		
Sample text file(s)		5		
Screenshots and test cases		5		
	Total:	40		

## **Table of Contents**

FUNDAMENTAL OF SOLUTION DESIGN	2
1.1 Introduction	2
1.2 Function Overview	4
1.3 Structure Chart	11
1.4 Flowchart	20
2.0 C++ program	53
3.0 Sample output	99
4.0 Sample Input	111
5.0 Contribution of contribution	124

#### **FUNDAMENTAL OF SOLUTION DESIGN**

#### 1.1 Introduction

The core problem faced by UTAR students and staff at the Sungai Long campus is the lack of a centralized platform to find up-to-date information about nearby food stalls, such as their operating hours, types of food offered, and user feedback. This makes it difficult for UTARIANs to make informed decisions when choosing where to eat, especially within the limited time available between classes or during lunch breaks. To address this issue, we propose developing a Food Stalls Tracking and Review System using C++ programming and text files as the database. This system is specifically designed to:

#### 1. Track Food Stall Information:

- Store and display details such as stall name, location, food type and operating hours
- o Allow users to search and filter stalls based on food type or location

#### 2. Allow User Reviews and Ratings:

 Enable students and staff to submit reviews and rate stalls they have visited on a scale (e.g., 1 to 5 stars).

### 3. Store and Manage Data in Text Files:

- Stall data and user reviews will be saved in .txt files to ensure the system
   can run without a complex database.
- The program will be able to read from and write to these files dynamically as users interact with the system.

#### 4. User Interaction:

- o Provide a user-friendly menu interface for:
  - Viewing available stalls
  - Adding reviews
  - Viewing existing reviews
  - Searching/filtering stalls

This system provides a practical, real-time solution to the problem by helping UTARIANs make better food choices conveniently and promoting higher quality

Page 2 of 127

among the food stalls through a public review mechanism.

#### **1.2 Function Overview**

#### Main menu

#### void clear screen()

This function clears the terminal screen before displaying new content. It uses system("cls") for Windows and system("clear") for other operating systems. This helps keep the program interface clean and easy to read.

#### void instruct()

This function displays the main menu interface to the user. It prints a decorative title and lists the main options: Food Stalls Tracking, Review, and Quit. It makes the program user-friendly and guides the user on what they can do.

#### bool is digit(char Opt)

This helper function checks if the user's input is a valid menu option (either '1' or '2'). It returns true if the input is a digit between '1' and '2'; otherwise, it returns false. It is used to validate the input before calling the corresponding function.

### void select option(char &Opt, bool &loop)

This function takes the user's menu selection and performs the corresponding action:

- If the user selects '1', it calls the choose\_option() function from the food\_track.h module to handle food stall tracking.
- If the user selects '2', it calls the choose\_option\_r() function to handle the review part.
- If the user enters 'Q' or 'q', it exits the loop and quits the program.
- Any other input will show an error message.

This function also clears the input buffer using cin.ignore() and waits for user confirmation with cin.get() before returning to the menu.

## int main()

This is the entry point of the program. It uses a loop to continuously show the main menu until the user decides to quit. It calls the clear\_screen(), instruct(), and select\_option() functions in each loop iteration to keep the program running interactively.

#### Food track

#### void FOOD TRACK::clear screen()

This function clears the terminal screen using the appropriate command for the operating system (cls for Windows, clear for others). It ensures that the menu or display is refreshed cleanly each time it is shown to the user.

#### void FOOD TRACK::instruct()

This function displays the sub-menu for selecting the **type of food store**, showing options like:

- <1> Restaurant
- <2> Cafe
- <3> Fast Food Store

It helps users decide which category of food stalls they want to view or review.

#### void FOOD TRACK::choose option()

This function handles the **Food Stalls Tracking** part:

- It repeatedly displays the food store type menu.
- Based on user input, it calls the corresponding function from the STORE class:
  - o restaurant(), cafe(), or fast\_food()
- If the user enters 'Q', the loop breaks and returns to the main menu.
- Invalid inputs show an error message and prompt the user again.

#### void FOOD TRACK::choose option r()

This function handles the **Review** part of the system:

- Like choose\_option(), it shows the food type menu.
- Based on user input, it calls the matching function from the REVIEW class:
  - o restaurant\_r(), cafe r(), or fast food r()
- If the user inputs 'Q', it exits the loop and returns to the main menu.
- Invalid inputs are handled the same way with an error message and retry.

#### **Store**

#### void STORE::clear screen()

Clears the console screen, adapting to both Windows and Unix-like systems.

#### void STORE::display data (string text file)

Displays food stall data (codes, names, and prices) from a specified text file in a structured format.

#### bool STORE::check code(string text file, string code)

Checks if a specific food code exists in the given text file.

#### void STORE::add data(string text file, string code, string food, double f price)

Allows the addition of new food items (with code, description, and price) to the text file, ensuring no duplicate codes.

#### void STORE::modify data(string text file, string code, string food, double f price)

Facilitates the modification of existing food items by code, allowing changes to the code, description, or price.

#### void STORE::delete data(string text file, string code, string food, double f price)

Deletes a food item by its code from the text file.

#### void STORE::calculate(string text file, string code, int quantity, double f price)

Calculates the total price for a selected food item based on its code and quantity.

#### void STORE::track(string text file, int distance, string hrs)

Manages the tracking of food orders and operations in various restaurants or cafes by allowing adding, modifying, deleting, calculating, and more.

## void STORE::restaurant()// void STORE::fast\_food()

Display options for different restaurants or cafes and invoke the track() function to manage food-related operations.

#### **Review**

### void REVIEW::clear screen()

Clears the terminal screen, adapting to both Windows and Unix-like systems.

#### void REVIEW::user info(string &name, string &city, string &state, string &date)

Prompts the user to input personal details like name, city, state, and date, and stores them in respective variables.

# void REVIEW::user review(string name, string city, string state, string date, string &rate, string &main reason, string &comments)

Allows the user to provide a review, including a rating, reason for the rating, and comments, which are saved temporarily in a file (temp\_review.txt).

#### void REVIEW::display review(string text file)

Displays all the reviews stored in a given text file.

#### void REVIEW::temp review()

Displays a preview of the current review stored in temp review.txt.

## <u>void REVIEW::modify review(string text file, string name, string city, string</u> state, string date, string rate, string main reason, string comments)

Allows the user to modify an existing review by updating personal information and review details, and then confirms the changes.

# <u>void REVIEW::delete review(string text file, string name, string city, string state, string date, string rate, string main reason, string comments)</u>

Deletes the current review by clearing the contents of temp review.txt.

# <u>void REVIEW::confirmation(string text\_file, string name, string city, string state, string date, string rate, string main\_reason, string comments)</u>

Appends the review from temp\_review.txt to the main review file and displays all confirmed reviews.

#### void REVIEW::give comment(string text file)

Prompts the user to enter a review, provides options to confirm, modify, delete, or quit, and processes the user's choice accordingly.

#### void REVIEW::track(string text file)

Displays a menu for users to select the type of review they want to give (restaurant, cafe, or fast food) and manages the process based on their choice.

#### void REVIEW::restaurant r()

Displays available restaurants, lets the user select one, and then proceeds to the review tracking for that restaurant.

#### void REVIEW::cafe r()

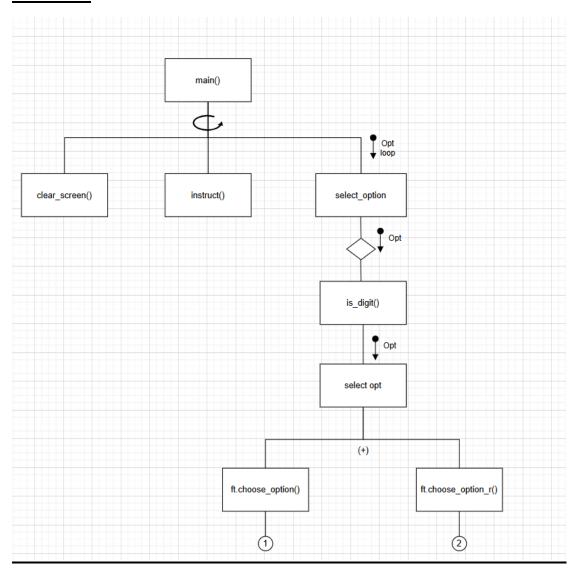
Displays available cafes, lets the user select one, and then proceeds to the review tracking for that cafe.

#### void REVIEW::fast food r()

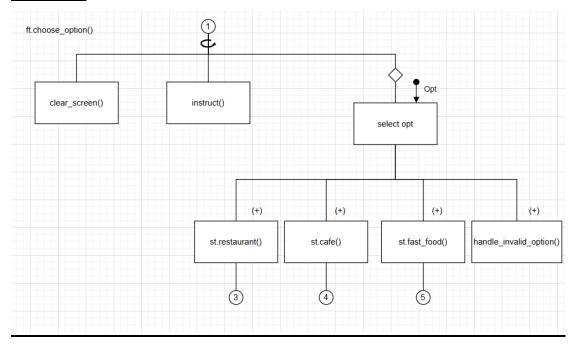
Displays available fast food stores, lets the user select one, and then proceeds to the review tracking for that store.

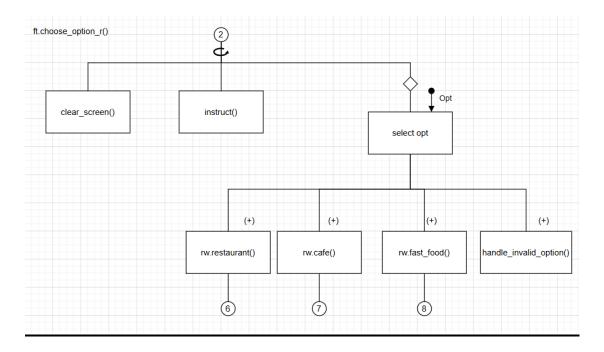
## 1.3 Structure Chart

## Main menu

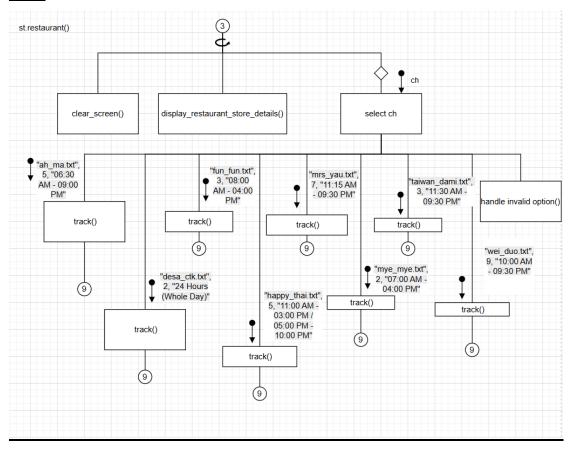


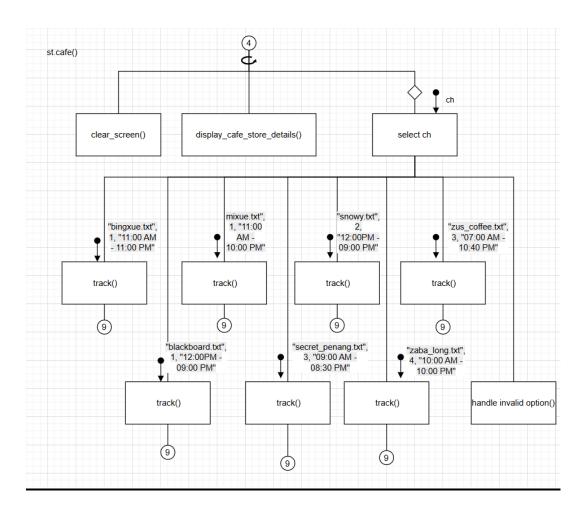
## Food track

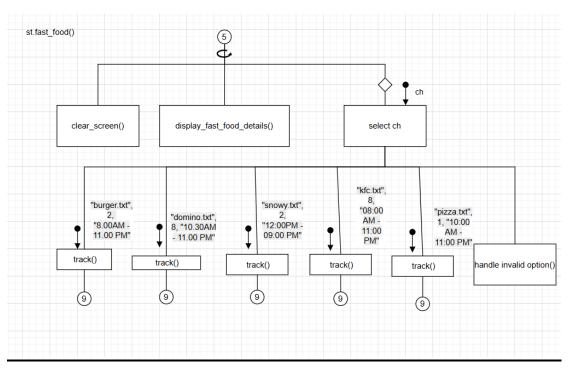


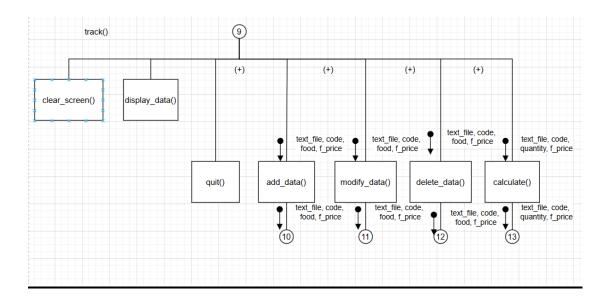


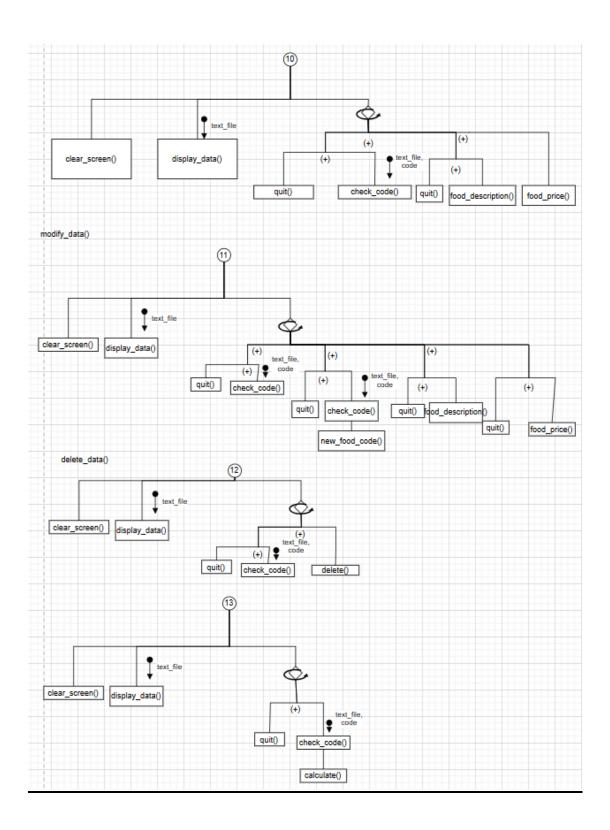
#### **Store**



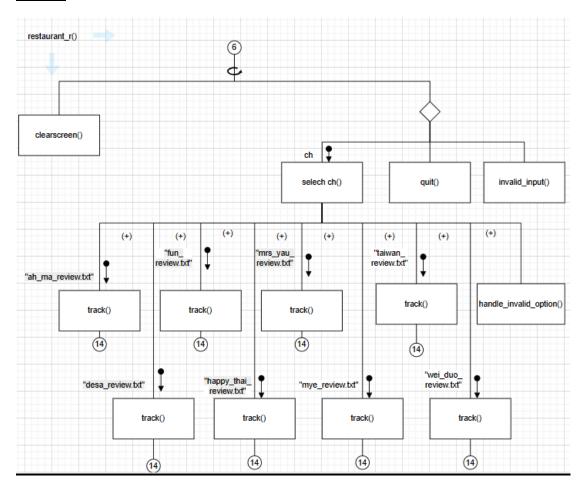


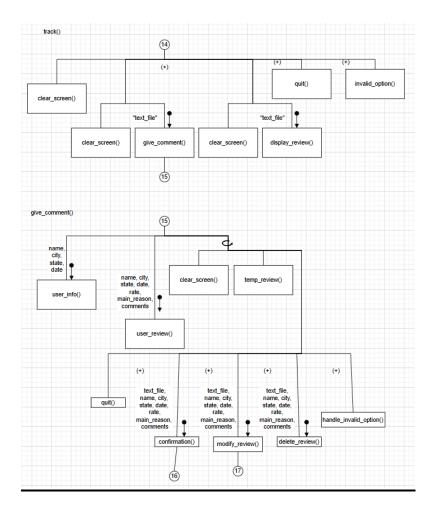


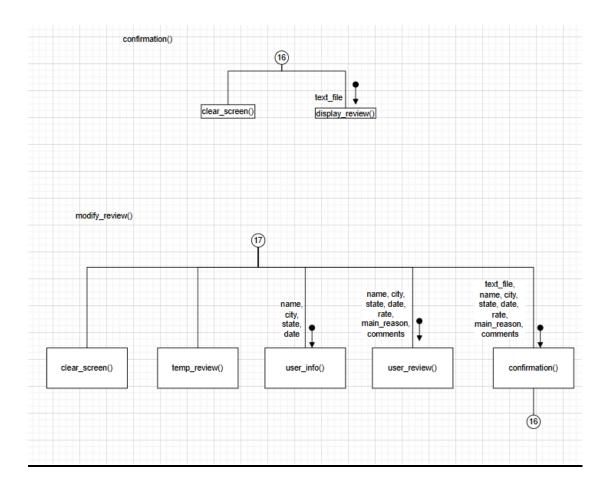




## **Review**

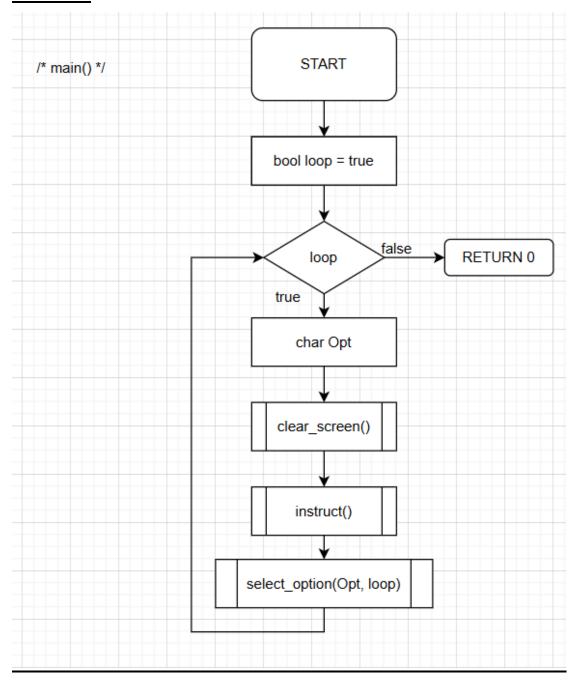


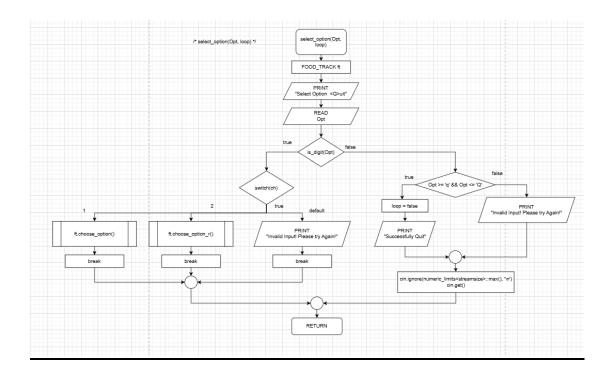


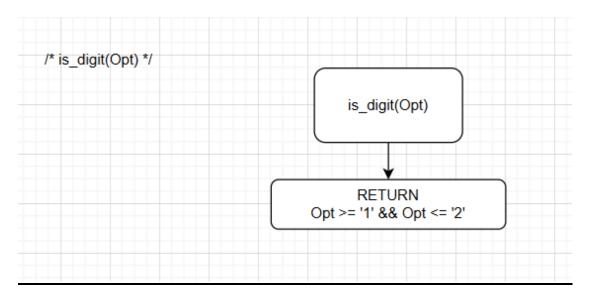


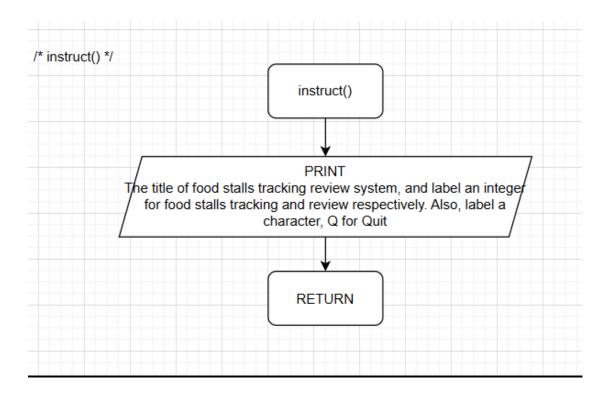
## 1.4 Flowchart

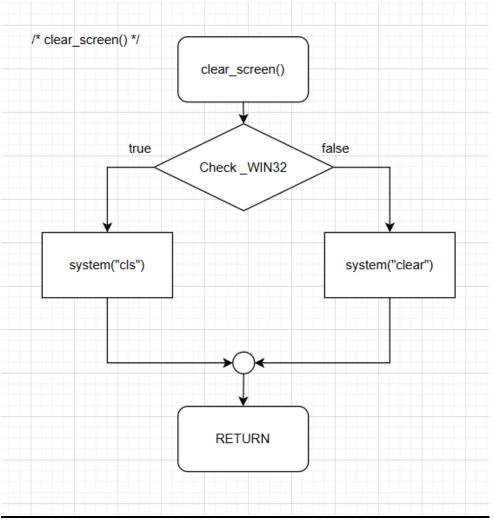
## Main menu



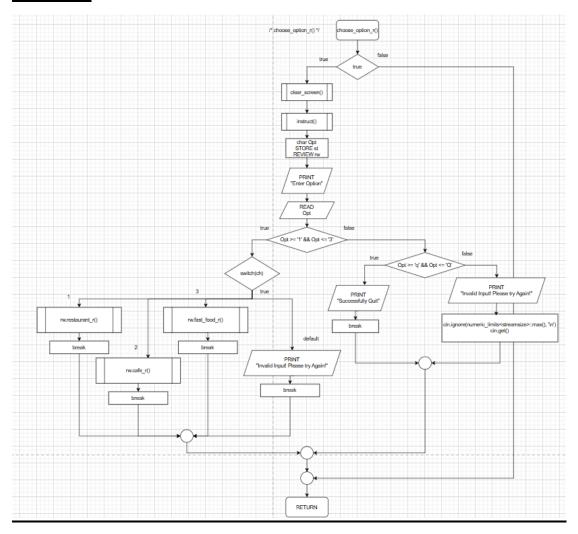


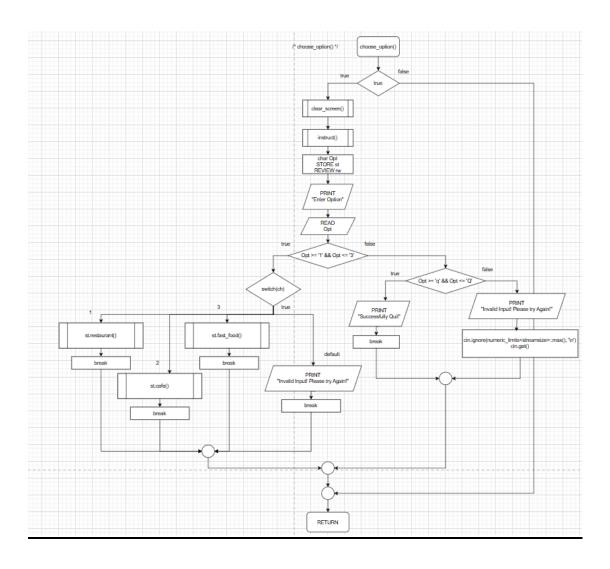


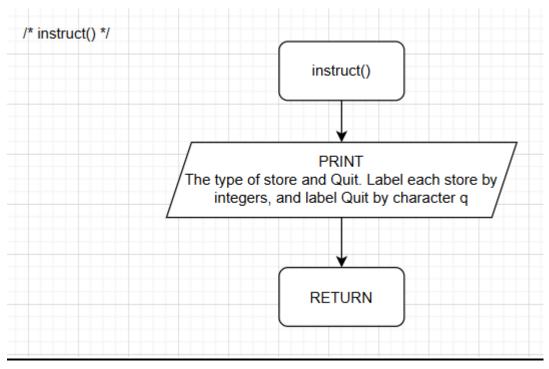


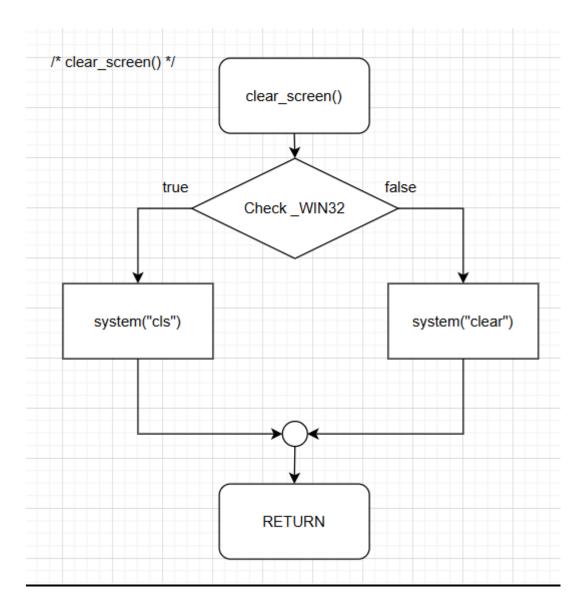


## Food track

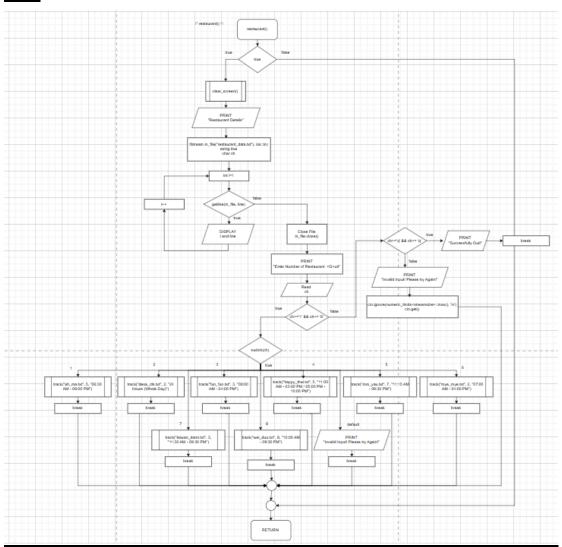


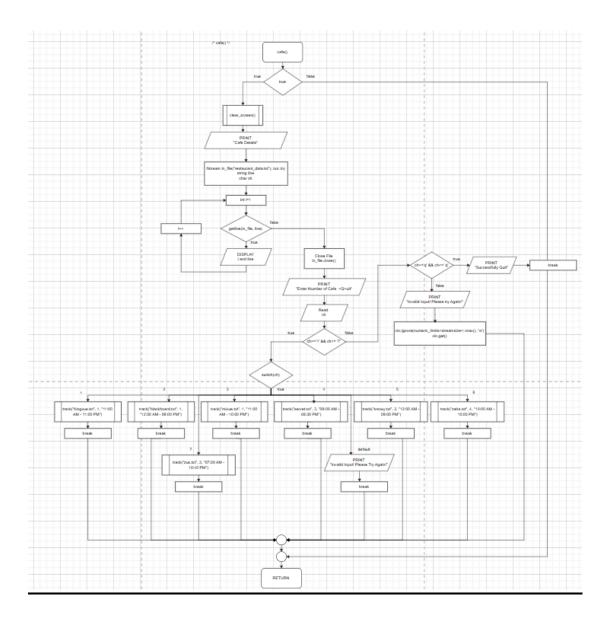


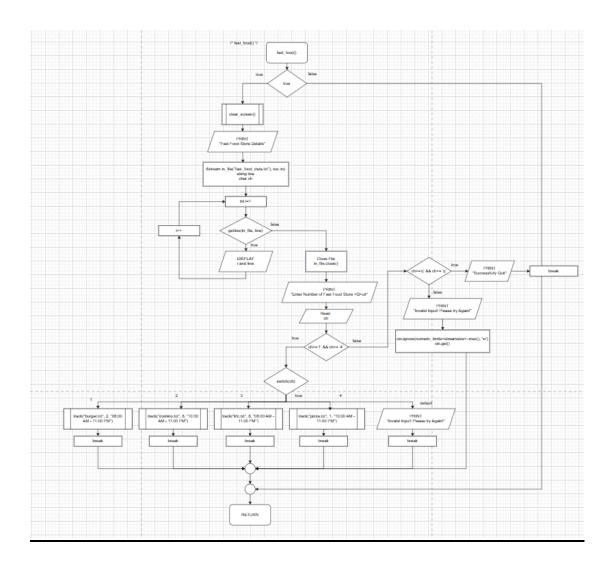


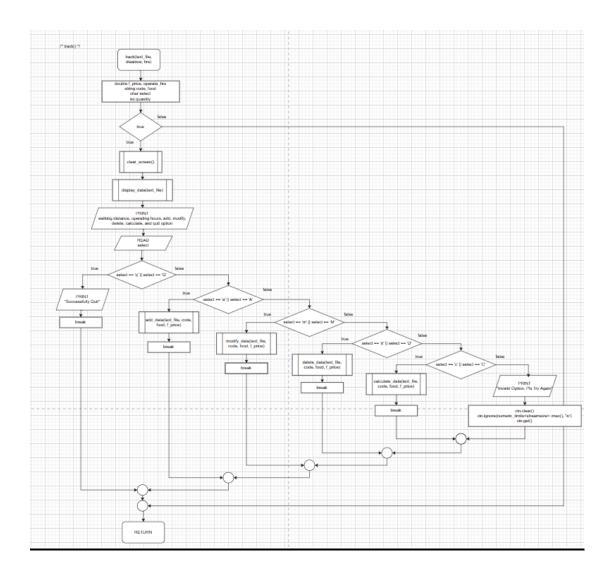


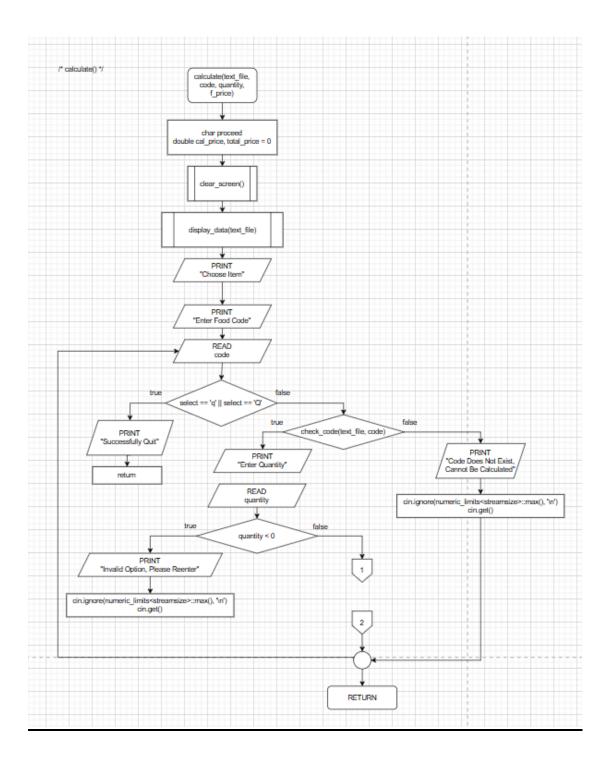
## **Store**

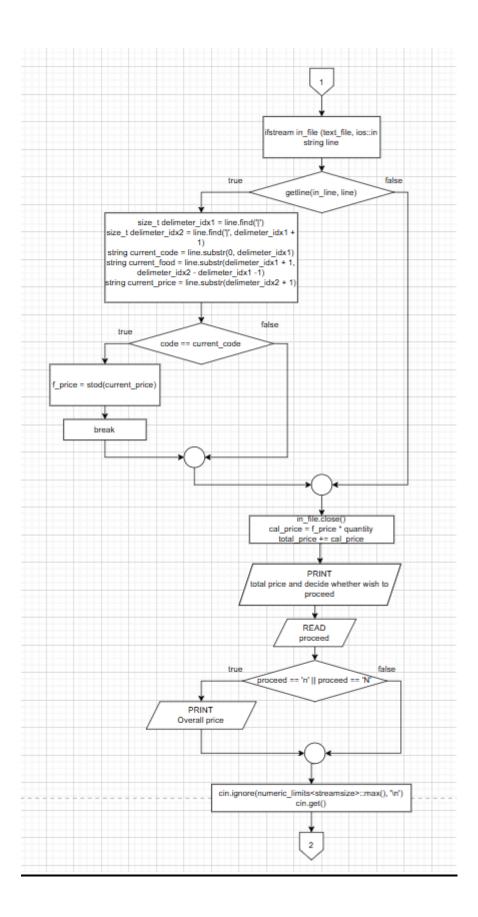


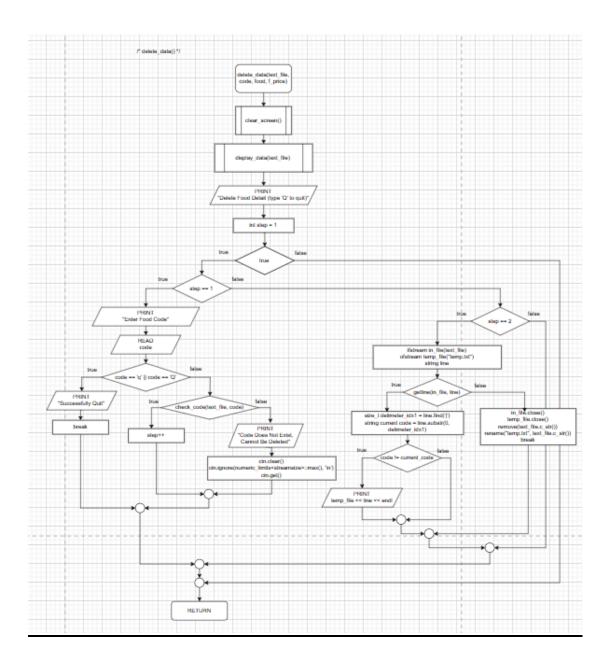


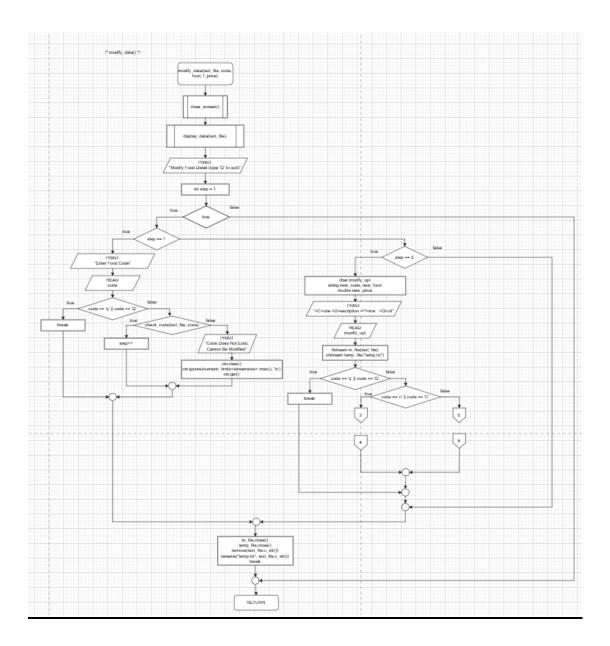


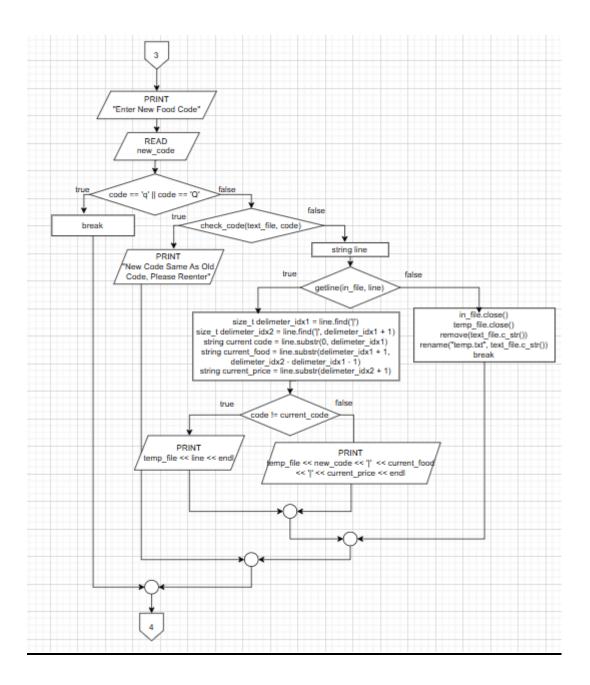


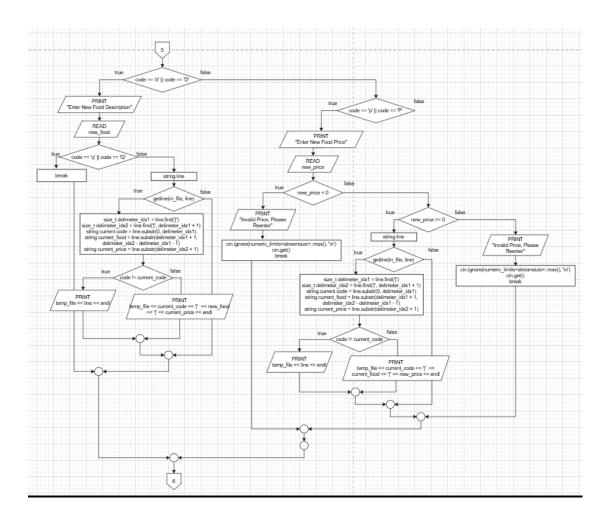


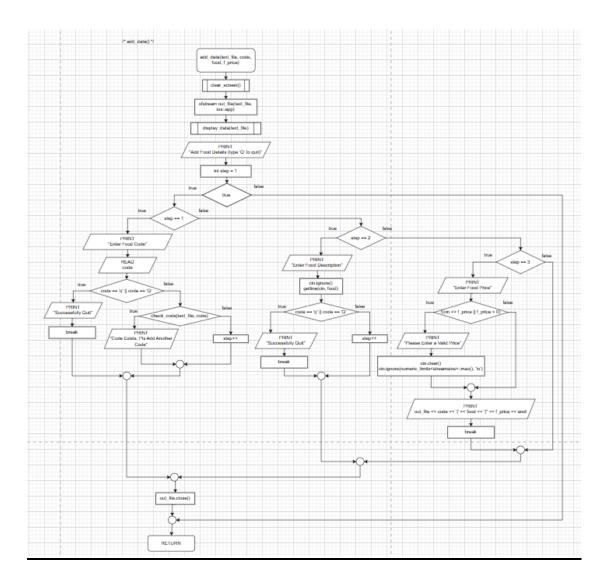


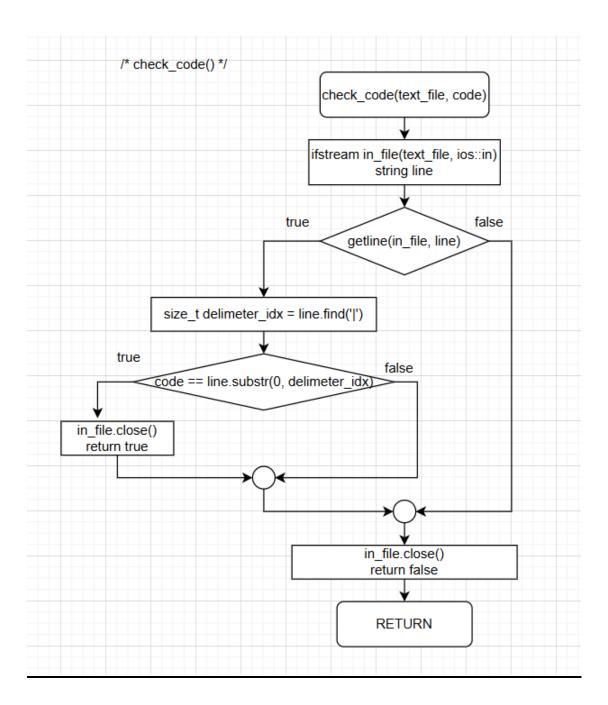


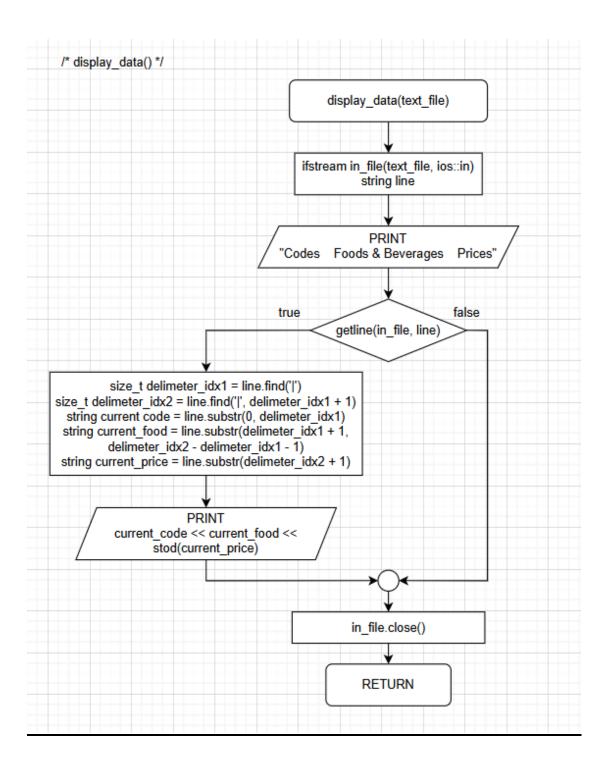


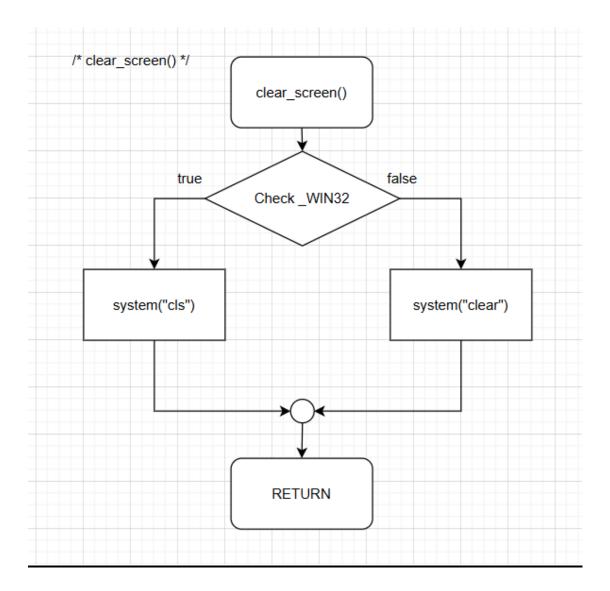




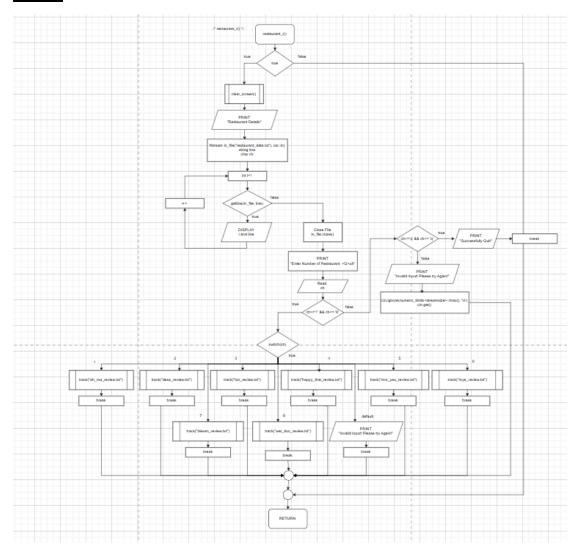


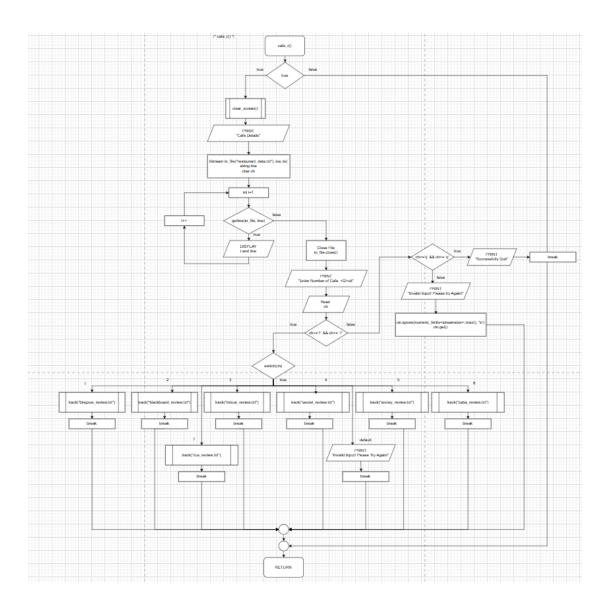


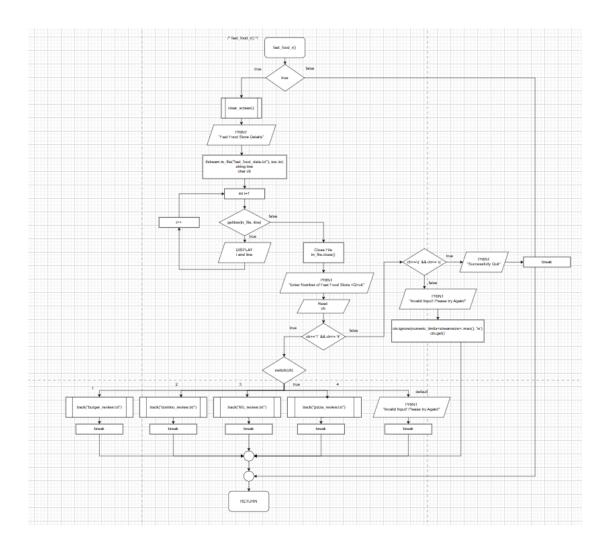


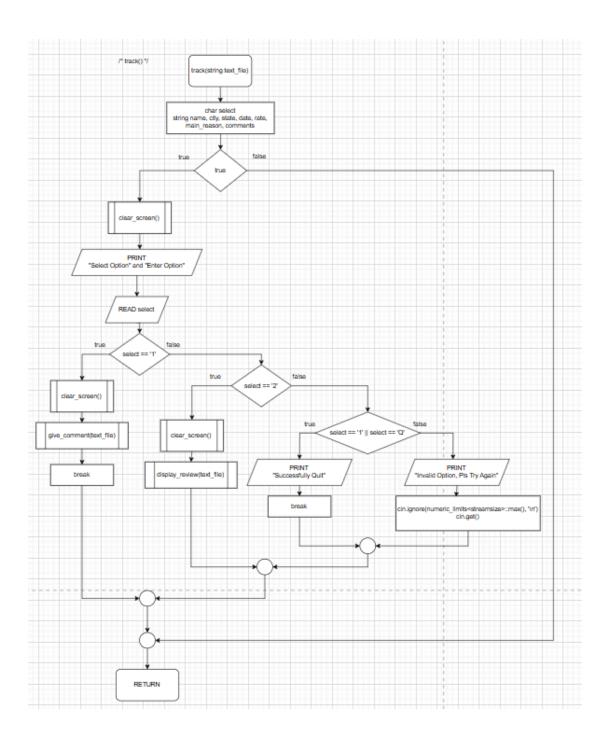


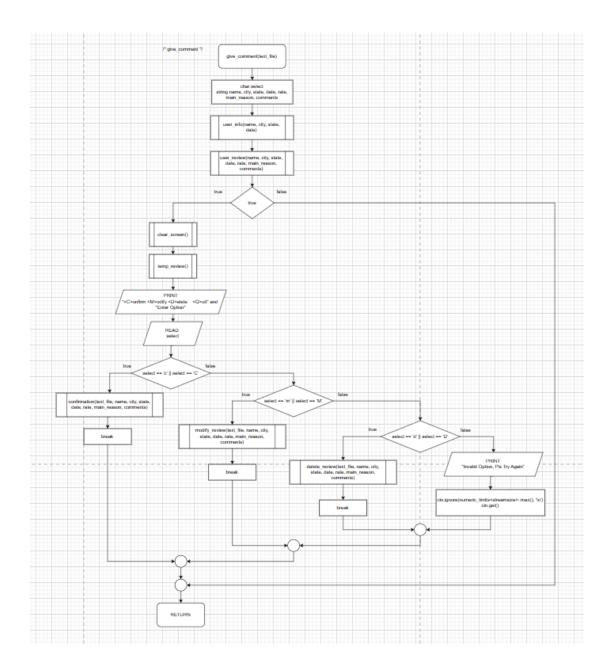
## Review

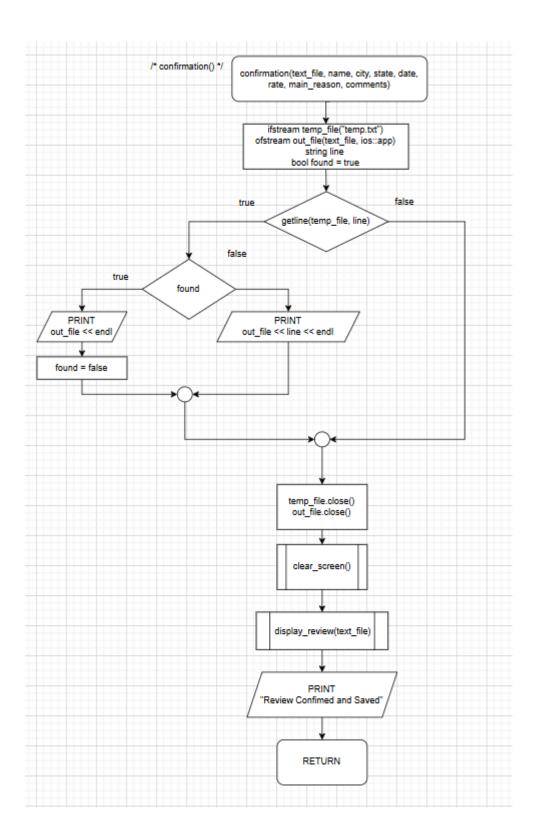


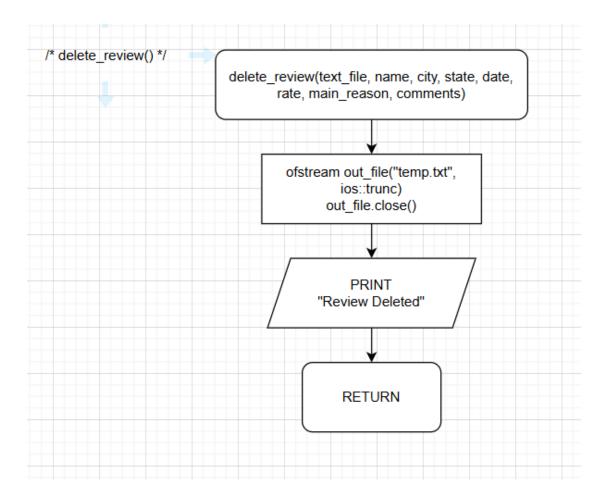


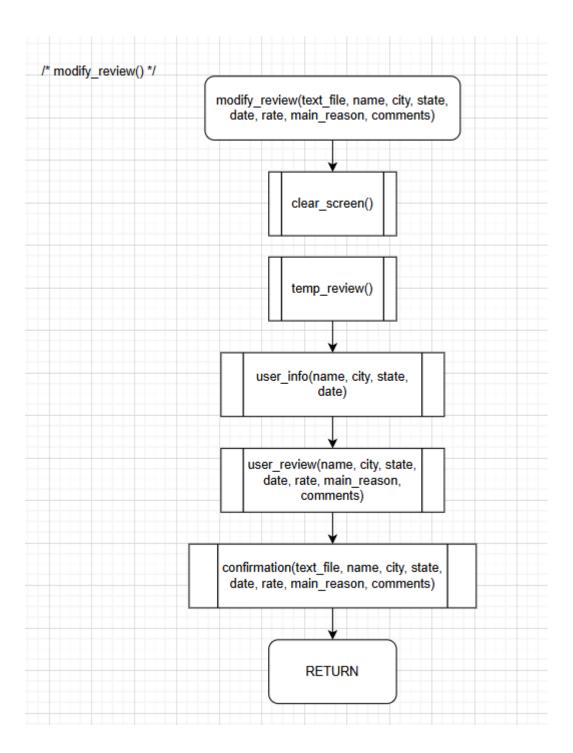


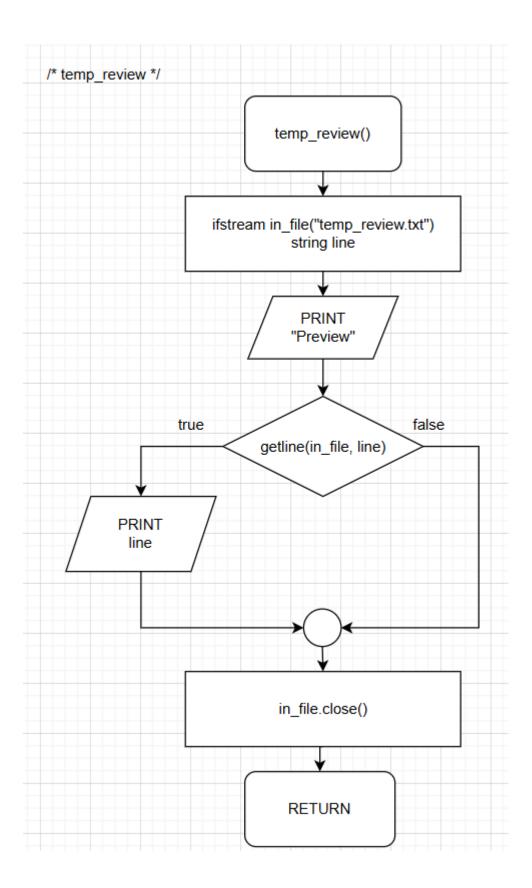


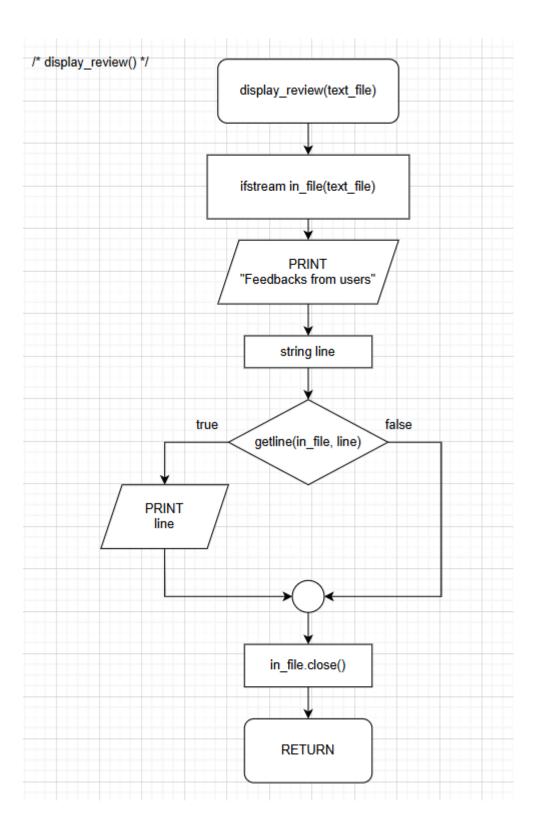


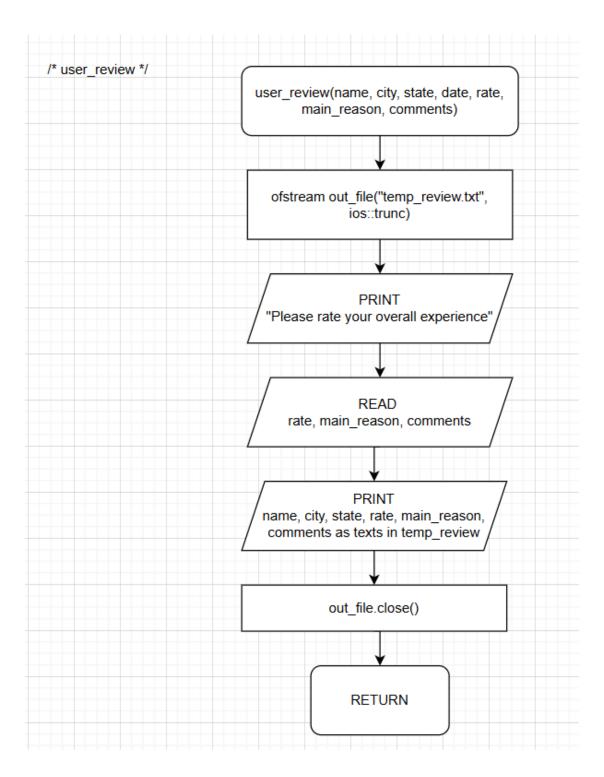


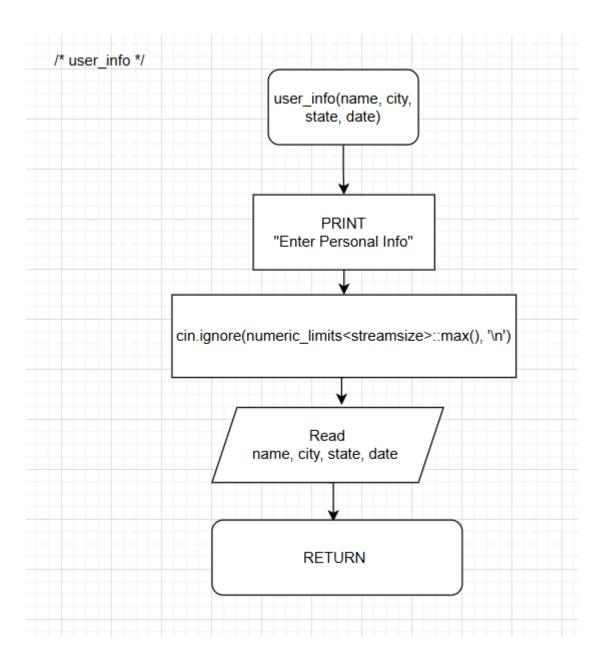


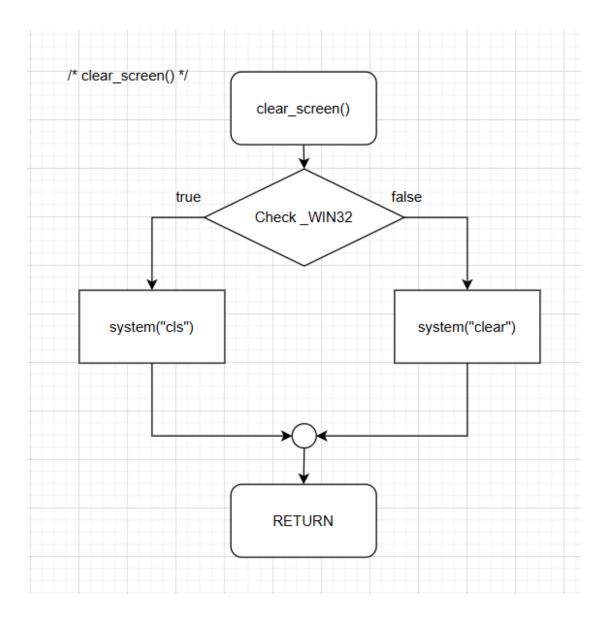












### 2.0 C++ program

#### Main menu

```
/*File name: main menu.cpp
Tool (IDE): VS CODE */
// Import food_track Module
#include "food_track.h"
#include "review.h"
FOOD_TRACK ft;
#include <iostream>
#include <cstdlib> // system
#include <string>
#include imits> // cin.ignore
using namespace std;
// Clear The Screen Before Displaying Data
void clear_screen() {
\#ifdef\_WIN32
   system("cls");
#else
   system("clear");
#endif
}
void instruct() {
   cout << string(60, '-') << endl;
       cout << string(12, '') << "Food Stalls Tracking & Review System" << endl;
                                                                       Page 53 of 127
```

```
cout << string(60, '-') << endl;
       cout << "<1> Food Stalls Tracking" << endl;</pre>
       cout << "<2> Review" << endl;
       cout << "<Q>uit" << endl;
       cout << string(60, '-') << endl;
}
bool is digit(char Opt) {
   return Opt >= '1' && Opt <= '2';
}
void select option(char &Opt, bool &loop) {
   cout << "Select Option <Q>uit >> ";
   cin >> Opt;
   if (is_digit(Opt)) {
      switch (Opt) {
          case '1':
             // Import choose_option() Function From food_track.h File
             ft.choose option();
             break;
          case '2':
             // Import choose_option_r() Function From food_track.h File
             ft.choose option r();
             break;
          default:
             cout << "-----" <<
endl;
             break;
```

```
}
   } else if (Opt == 'q' || Opt == 'Q') {
      loop = false;
     cout << "-----" << endl;
   } else {
     cout << "-----" << endl;
   }
   // Handle Buffer
  cin.ignore(numeric_limits<streamsize>::max(), '\n');
  // Read Single Character (including whitespace) ---> input()
   cin.get();
}
int main() {
   bool loop = true;
   while (loop) {
      char Opt;
      clear_screen();
      instruct();
      select_option(Opt, loop);
   }
   return 0;
}
```

```
/* File name: food track.cpp */
#include "food_track.h"
#include "store.h"
#include "review.h"
STORE st;
REVIEW rw;
#include <iostream>
#include <string>
#include <iomanip> // system, setw()
#include imits> // cin.ignore
#include <fstream> //ifstream, ofstream
using namespace std;
void FOOD_TRACK::clear_screen() {
#ifdef_WIN32
   system("cls");
#else
   system("clear");
#endif
}
void FOOD_TRACK::instruct() {
   cout << string(60, '-') << endl;
   cout << string(23, ' ') << "Types of Store" << endl;
   cout << string(60, '-') << endl;
   cout << "<1> Restaurant" << endl;</pre>
```

```
cout << "<2> Cafe" << endl;
   cout << "<3> Fast Food Store" << endl;</pre>
   cout << "<Q>uit" << endl;
   cout << string(60, '-') << endl;
}
void FOOD TRACK::choose option() {
   while(true) {
       clear_screen();
       instruct();
       char Opt;
       cout << "Enter Option <Q>uit >> ";
       cin >> Opt;
       if (Opt >= '1' && Opt <= '3') {
          switch (Opt) {
              case '1':
                 st.restaurant();
                 break;
              case '2':
                 st.cafe();
                 break;
              case '3':
                 st.fast_food();
                 break;
              default:
                 cout << "-----" Please Try Again!-----"
<< endl;
```

```
break;
         }
      } else if (Opt == 'q' \parallel Opt == 'Q') {
         cout << "-----" << endl;
         break;
      } else {
         cout << "-----" << endl;
           cin.ignore(numeric limits<streamsize>::max(), '\n'); // Ignore incorrect
input
         cin.get(); // Read single character (including whitespace) ---> input()
      }
   }
}
void FOOD TRACK::choose option r() {
   while(true) {
      clear_screen();
      instruct();
      char Opt;
      cout << "Enter Option <Q>uit >> ";
      cin >> Opt;
      if (Opt >= '1' && Opt <= '3') {
         switch (Opt) {
            case '1':
                rw.restaurant_r();
                break;
            case '2':
```

```
rw.cafe_r();
              break;
           case '3':
              rw.fast_food_r();
              break;
           default:
              cout << "-----" Please Try Again!-----"
<< endl;
              break;
        }
     } else if (Opt == 'q' || Opt == 'Q') {
        cout << "-----" << endl;
        break;
     } else {
        cout << "-----" << endl;
          cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Ignore incorrect
input
        cin.get(); // Read single character (including whitespace) ---> input()
     }
  }
}
```

# Food track.h

```
class FOOD_TRACK {
    public:
    // Data Management Function
    void instruct();

    // Core Functions
    void choose_option();
    void choose_option_r();

    // Clear All Data
    void clear_screen();
};
```

#### **Store**

```
/* File name: store.cpp */
#include "food_track.h"
#include "store.h"
#include <iostream>
#include <string>
#include <iomanip>
#include inits>
#include <fstream>
using namespace std;
void STORE::clear screen() {
#ifdef_WIN32
   system("cls");
#else
   system("clear");
#endif
}
void STORE::display_data (string text_file) {
   ifstream in_file(text_file, ios::in);
   string line;
   cout << string(60, '-') << endl;
   cout << "Codes" << setw(21) << "Foods & Beverages" << setw(34) << "Prices" <<
endl;
```

```
cout << string(60, '-') << endl;
   while (getline(in file, line)) {
       size_t delimeter_idx1 = line.find('|');
       size_t delimeter_idx2 = line.find('|', delimeter_idx1 + 1);
       string current code = line.substr(0, delimeter idx1);
          string current food = line.substr(delimeter idx1 + 1, delimeter idx2 - 1
delimeter idx1 - 1);
       string current price = line.substr(delimeter idx2 + 1);
        cout << left << setw(9) << current_code << setw(41) << current_food <<
setw(10)
       << right << fixed << setprecision(2) << stod(current price) << endl;</pre>
   }
   in file.close();
}
bool STORE::check_code(string text_file, string code) {
   ifstream in file(text file, ios::in);
   string line;
   while (getline(in file, line)) {
       size t delimeter idx = line.find('|'); // Get The 1st Delimeter From Line
       if(code == line.substr(0, delimeter idx)) {
           in file.close(); // Avoid Non-Void Function Error
           return true;
       }
   }
```

```
in_file.close();
   return false;
}
void STORE::add_data(string text_file, string code, string food, double f_price) {
   clear_screen();
   ofstream out file(text file, ios::app);
   display_data(text_file);
   cout << string(60, '-') << endl;
   cout << "Add Food Details (type 'Q' to quit)\n";</pre>
   cout << string(60, '-') << endl;
   int step = 1;
   while (true) {
       if (step == 1) {
           cout << "Enter Food Code: ";</pre>
           cin >> code;
           if (code == "q" || code == "Q") {
               break;
           } else if (check_code(text_file, code)) {
               cout << "-----Code Exist, Pls Add Another Code-----\n";
           } else {
               step++;
           }
       }
```

```
cout << "Enter Food Description: ";</pre>
          cin.ignore();
          getline(cin, food);
          if (food == "q" \parallel food == "Q") \{
              cout << "-----" << endl;
              break;
           } else {
              step++;
           }
       }
       if (step == 3) {
          cout << "Enter Food Price: ";</pre>
          while (!(cin >> f price) || f price < 0) {
              cout << "Please Enter a Valid Price: ";</pre>
              cin.clear(); // Clear The Error Input (Avoid Infinite Loop)
              cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle Buffer
           }
          out file << code << "|" << food << "|" << f price << endl;
          break;
   out_file.close();
}
void STORE::modify data(string text file, string code, string food, double f price) {
```

if (step == 2) {

```
clear screen();
display_data(text_file);
cout << string(60, '-') << endl;
cout << "Modify Food Details (type 'Q' to quit)\n";</pre>
cout << string(60, '-') << endl;
int step = 1;
while (true) {
   if (step == 1) {
       cout << "Enter Food Code: ";</pre>
       cin >> code;
       if (code == "q" || code == "Q") {
          break;
       } else if (check code(text file, code)) {
          step++;
       } else {
          cout << "-----";
          cin.clear(); // Clear The Error Input (Avoid Infinite Loop)
          cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
          cin.get();
       }
   }
   if (step == 2) {
       char modify opt;
```

```
string new code, new food;
           double new price;
           cout << "<C>ode <D>escription <P>rice <Q>uit: ";
           cin >> modify_opt;
           cout << string(60, '-') << endl;
           ifstream in file(text file);
           ofstream temp file("temp.txt"); // Create a Temporary File to Store Original
Data
           if (modify opt == 'q' || modify opt == 'Q') {
              break;
           } else if (modify opt == 'c' || modify opt == 'C') {
              cout << "Enter New Food Code: ";</pre>
              cin >> new code;
              if (new_code == "q" || new_code == "Q") {
                  break;
               } else if (check code(text file, new code)) {
                  cout << "----New Code Same As Old Code, Please Reenter----
----\n\n'';
               } else {
                  string line;
                  while (getline(in file, line)) {
                      size t delimeter idx1 = line.find('|');
```

```
size t delimeter idx2 = line.find('|', delimeter idx1 + 1);
                      string current code = line.substr(0, delimeter idx1);
                             string current food = line.substr(delimeter idx1 + 1,
delimeter_idx2 - delimeter_idx1 - 1);
                      string current price = line.substr(delimeter idx2 + 1);
                      if (code != current code) {
                          temp file << line << endl;
                       } else {
                          temp file << new code << "|" << current food << "|" <<
current price << endl;
               }
           } else if (modify opt == 'd' || modify opt == 'D') {
               cout << "Enter New Food Description: ";</pre>
               cin >> new food;
               if (new_food == "q" || new_food == "Q") {
                   break;
               } else {
                  string line;
                   while (getline(in file, line)) {
                      size t delimeter idx1 = line.find('|');
                      size t delimeter idx2 = line.find('|', delimeter idx1 + 1);
                      string current_code = line.substr(0, delimeter_idx1);
                             string current food = line.substr(delimeter idx1 + 1,
delimeter idx2 - delimeter idx1 - 1);
```

```
string current price = line.substr(delimeter idx2 + 1);
                     if (code != current code) {
                         temp file << line << endl;
                     } else {
                         temp_file << current_code << "|" << new_food << "|" <<
current price << endl;
                     }
                  }
              }
          } else if (modify_opt == 'p' || modify_opt == 'P') {
              cout << "Enter New Food Price: ";</pre>
              cin >> new price;
              if (new price < 0) {
                 cout << "----";
                     cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle
Buffer
                 cin.get(); // Pause
                  break;
              } else if (new price \geq = 0) {
                 string line;
                 while (getline(in_file, line)) {
                     size_t delimeter_idx1 = line.find('|');
                     size t delimeter idx2 = line.find('|', delimeter idx1 + 1);
                     string current code = line.substr(0, delimeter idx1);
```

```
string current food = line.substr(delimeter idx1 + 1,
delimeter idx2 - delimeter idx1 - 1);
                    string current price = line.substr(delimeter idx2 + 1);
                    // If not modifying, write the original line to temp file
                    if (code != current_code) {
                        temp file << line << endl;
                     } else {
                        temp file << current code << "|" << current food << "|" <<
new price << endl;
                     }
                 }
              } else {
                 cout << "----";
                    cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle
Buffer
                 cin.get(); // Pause
                 break;
              }
          }
          in_file.close();
          temp_file.close();
          remove(text_file.c_str());
          rename("temp.txt", text_file.c_str());
          break;
```

```
}
}
void STORE::delete_data(string text_file, string code, string food, double f_price) {
   clear_screen();
   display data(text file);
   cout << string(60, '-') << endl;
   cout << "Delete Food Details (type 'Q' to quit)\n";</pre>
   cout << string(60, '-') << endl;
   int step = 1;
   while (true) {
      if (step == 1) {
         cout << "Enter Food Code: ";</pre>
         cin >> code;
         if (code == "q" || code == "Q") {
             cout << "-----" << endl;
             break;
          } else if (check_code(text_file, code)) {
             step++;
          } else {
             cout << "-----";
             cin.clear(); // Clear The Error Input (Avoid Infinite Loop)
             cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
```

```
cin.get();
           }
        }
       if (step == 2) {
           ifstream in file(text file);
           ofstream temp_file("temp.txt"); // Create a Temporary File to Store Original
Data
           string line;
           while (getline(in_file, line)) {
               size_t delimeter_idx1 = line.find('|');
               string current code = line.substr(0, delimeter idx1);
               // Rewrite all lines except the one to be deleted/chosen
               if (code != current_code) {
                   temp_file << line << endl;
               }
           }
           in_file.close();
           temp file.close();
           remove(text_file.c_str());
           rename("temp.txt", text_file.c_str());
           break;
       }
```

```
}
}
void STORE::calculate(string text_file, string code, int quantity, double f_price) {
   char proceed;
   double cal_price, total_price = 0;
   clear screen();
   display_data(text_file);
   cout << string(60, '-') << endl;
   cout << "\t\t\t Choose Items" << endl;</pre>
   cout << string(60, '-') << endl;
   do {
      cout << "Enter Food Code: ";</pre>
      cin >> code;
      if (code == "q" || code == "Q") {
         cout << "-----" << endl;
         return;
      } else if (check_code(text_file, code)) {
         cout << "Enter Quantity: ";</pre>
         cin >> quantity;
         if (quantity < 0) {
             cout << "----";
             cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
```

```
cin.get();
           } else {
               ifstream in_file(text_file, ios::in);
               string line;
               while (getline(in_file, line)) {
                   size t delimeter idx1 = line.find('|');
                   size t delimeter idx2 = line.find('|', delimeter idx1 + 1);
                   string current code = line.substr(0, delimeter idx1);
                   string current food = line.substr(delimeter idx1 + 1, delimeter idx2
- delimeter idx1 - 1);
                   string current price = line.substr(delimeter idx2 + 1);
                   if (code == current code) {
                       f price = stod(current price); // Convert string to double
                       break;
                   }
               }
               in_file.close();
               cal price = f price * quantity;
               total price += cal price;
               cout << "Total Price: RM" << cal price << endl;
               cout << "Wish to proceed? <Y>es/<N>o: ";
               cin >> proceed;
               if (proceed == 'n' \parallel proceed == 'N') {
                   cout << string(60, '=') << endl;
                   cout << "Overall Price: RM" << total price << endl;</pre>
```

```
cout << string(60, '=') << endl;
              }
              cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle Buffer
              cin.get();
          }
       } else {
          cout << "-----";
          cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
          cin.get();
       }
   } while (proceed == 'y' \parallel proceed == 'Y');
}
void STORE::track(string text file, int distance, string hrs) {
   double f_price, operate_hrs;
   string code, food;
   char select;
   int quantity;
   while (true) {
       clear screen();
       display data(text_file);
       cout << string(60, '-') << endl;
       cout << "Walking Distance: " << distance << "km" << endl;</pre>
       cout << "Operating Hours: " << hrs << endl;
```

```
cout << string(60, '-') << endl;
      cout << string(60, '-') << endl;
      cout << "Enter Option: ";</pre>
      cin >> select;
      if (select == 'q' || select == 'Q') {
         cout << "-----" << endl;
         break;
      } else if (select == 'a' || select == 'A') {
         add data(text file, code, food, f price);
      \} else if (select == 'm' || select == 'M') {
         modify_data(text_file, code, food, f_price);
      } else if (select == 'd' || select == 'D') {
         delete data(text file, code, food, f price);
      } else if (select == 'c' || select == 'C') {
         calculate(text file, code, quantity, f price);
      } else {
         cout << "-----" << endl;
         cin.clear();
         cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
         cin.get();
}
void STORE::restaurant() {
   while (true) {
      clear screen();
```

```
cout << string(60, '-') << endl;
cout << "\t
                Restaurant Details\n";
cout << string(60, '-') << endl;
ifstream in_file("restaurant_data.txt", ios::in);
string line;
int i=1;
char ch;
while (getline(in file, line)) {
   cout << "<" << i << "> " << line << endl;
   i++;
}
cout << string(60, '-') << endl;
in file.close();
cin >> ch;
if (ch>='1' && ch<='8') {
   switch (ch) {
       case '1':
          track("ah_ma.txt", 5, "06:30 AM - 09:00 PM");
          break;
       case '2':
          track("desa_ctk.txt", 2, "24 Hours (Whole Day)");
          break;
       case '3':
          track("fun fun.txt", 3, "08:00 AM - 04:00 PM");
```

```
break;
           case '4':
              track("happy_thai.txt", 5, "11:00 AM - 03:00 PM / 05:00 PM - 10:00
PM");
              break;
           case '5':
              track("mrs yau.txt", 7, "11:15 AM - 09:30 PM");
              break;
           case '6':
              track("mye mye.txt", 2, "07:00 AM - 04:00 PM");
              break;
           case '7':
              track("taiwan_dami.txt", 3, "11:30 AM - 09:30 PM");
              break;
           case '8':
              track("wei duo.txt", 9, "10:00 AM - 09:30 PM");
              break;
           default:
              cout << "-----" Please Try Again!-----"
<< endl;
              break;
         }
      cout << "-----" << endl;
        break;
      } else {
        cout << "-----" << endl;
        cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
        cin.get(); // Pause
```

```
}
}
void STORE::cafe() {
   while (true) {
       clear screen();
       cout << string(60, '-') << endl;
       cout << "\t\t Cafe Details\n";</pre>
       cout << string(60, '-') << endl;
       ifstream in_file("cafe_data.txt", ios::in);
       string line;
       int i=1;
       char ch;
       while (getline(in_file, line)) {
          cout << "<" << i << "> " << line << endl;
          i++;
       }
      cout << string(60, '-') << endl;
       in_file.close();
       cin >> ch;
      if (ch>='1' && ch<='7') {
          switch (ch) {
              case '1':
```

```
track("bingxue.txt", 1, "11:00 AM - 11:00 PM");
                break;
             case '2':
                track("blackboard.txt", 1, "12:00PM - 09:00 PM");
                break;
             case '3':
                track("mixue.txt", 1, "11:00 AM - 10:00 PM");
                break;
             case '4':
                           track("secret penang.txt", 3, "09:00 AM - 08:30
PM");
                break;
             case '5':
                track("snowy.txt", 2, "12:00PM - 09:00 PM");
                break;
             case '6':
                track("zaba_long.txt", 4, "10:00 AM - 10:00 PM");
                break;
             case '7':
                track("zus coffee.txt", 3, "07:00 AM - 10:40 PM");
                break;
             default:
                cout << "-----" Please Try Again!-----"
<< endl;
                break;
          }
      } else if (ch == 'q' \parallel ch == 'Q') {
          cout << "-----" << endl;
          break;
```

```
} else {
          cout << "-----" << endl;
          cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle Buffer
          cin.get(); // Pause
       }
   }
}
void STORE::fast_food() {
   while (true) {
       clear screen();
       cout << string(60, '-') << endl;
       cout << "\t
                     Fast Food Store Details\n";
       cout << string(60, '-') << endl;
       ifstream in_file("fast_food_data.txt", ios::in);
       string line;
       int i=1;
       char ch;
       while (getline(in_file, line)) {
          cout << "<" << i << "> " << line << endl;
          i++;
       }
       cout << string(60, '-') << endl;
       in file.close();
```

```
cin >> ch;
     if (ch>='1' && ch<='4') {
        switch (ch) {
          case '1':
             track("burger.txt", 2, "8.00AM - 11.00 PM");
             break;
          case '2':
             track("domino.txt", 8, "10.30AM - 11.00 PM");
             break;
          case '3':
             track("kfc.txt", 8, "08:00 AM - 11:00 PM");
             break;
          case '4':
             track("pizza.txt", 1, "10:00 AM - 11:00 PM");
             break;
          default:
             cout << "-----" Please Try Again!-----"
<< endl;
             break;
        }
     } else if (ch == 'q' || ch == 'Q') {
        cout << "-----" << endl;
        break;
     } else {
        cout << "-----" << endl;
```

```
cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
           cin.get(); // Pause
   }
}
Store.h
#include <string>
using namespace std;
class STORE {
   public:
   // Core Functions
   void restaurant();
   void cafe();
   void fast food();
   // Data Management Functions
   void display_data(string text_file);
   bool check code(string text file, string code);
   void add data(string text file, string code, string food, double f price);
   void modify data(string text file, string code, string food, double f price);
   void delete data(string text file, string code, string food, double f price);
   void calculate(string text file, string code, int quantity, double f price);
   void track(string text file, int distance, string hrs);
   // Clear All Data
   void clear screen();
```

**}**;

#### **Review**

```
/* File name: review.cpp */
#include "food_track.h"
#include "store.h"
#include "review.h"
#include <iostream>
#include <string>
#include inits>
#include <fstream>
using namespace std;
void REVIEW::clear screen() {
#ifdef_WIN32
   // Only for Window user
   system("cls");
#else
   // For Linux/Mac... user
   system("clear");
#endif
}
void REVIEW::user_info(string &name, string &city, string &state, string &date) {
   cout << string(60, '-') << endl;
   cout << string(20, ' ') << "Enter Personal Info" << endl;
   cout << string(60, '-') << endl;
```

```
// Flush buffer
   cin.ignore(numeric limits<streamsize>::max(), '\n');
   cout << "Name (Joey Chong): ";</pre>
   // To read a line of text
   getline(cin, name);
   cout << "City (Bandar Sungai Long): ";</pre>
   getline(cin, city);
   cout << "State (Selangor): ";</pre>
   getline(cin, state);
   cout << "Date (01/01/2025): ";
   getline(cin, date);
}
void REVIEW::user review(string name, string city, string state, string date, string
&rate, string &main reason, string &comments) {
   ofstream out file("temp review.txt", ios::trunc);
   cout << string(60, '-') << endl;
   cout << string(12, '') << "Please rate your overall experience" << endl;
   cout << string(60, '-') << endl;
   cout << "Rating (****): ";
   getline(cin, rate);
   cout << "Main Reason (Exceptional Service): ";</pre>
   getline(cin, main_reason);
   cout << "Comments/Feedbacks: ";</pre>
   getline(cin, comments);
```

```
// Save it into temparary file for preview purpose
   out file << name << ", from " << city << ", " << state
   << endl << rate << " for " << main reason << endl << comments;
   out_file.close();
}
void REVIEW::display review(string text file) {
   ifstream in file(text file);
   cout << string(60, '-') << endl;
   cout << string(20, '') << "Feedbacks from Users" << endl;
   cout << string(60, '-') << endl;
   string line;
   while (getline(in file, line)) {
       cout << line << endl;
   in_file.close();
}
void REVIEW::temp_review() {
   ifstream in file("temp review.txt");
   cout << string(60, '-') << endl;
   cout << string(27, ' ') << "Preview" << endl;
   cout << string(60, '-') << endl;
   string line;
```

```
while (getline(in file, line)) {
       cout << line << endl;
   in file.close();
}
void REVIEW::modify review(string text file, string name, string city, string state,
string date, string rate, string main reason, string comments) {
   clear screen();
   temp review();
   user_info(name, city, state, date);
   user review(name, city, state, date, rate, main reason, comments);
   confirmation(text file, name, city, state, date, rate, main reason, comments);
}
void REVIEW::delete review(string text file, string name, string city, string state,
string date, string rate, string main_reason, string comments) {
   // Overwrite Contents
   ofstream out file("temp review.txt", ios::trunc);
   out file.close();
   cout << "-----" << endl;
   cin.ignore();
   cin.get();
}
void REVIEW::confirmation(string text file, string name, string city, string state, string
date, string rate, string main reason, string comments) {
```

```
// Append temp review to review.txt
   ifstream temp file("temp review.txt");
   ofstream out_file(text_file, ios::app);
   string line;
   bool found=true;
   while (getline(temp file, line)) {
      // Save The Data In Next Line
      if (found) {
          out file << endl;
          found = false;
       }
      out_file << line << endl;
   }
   temp file.close();
   out file.close();
   clear_screen();
   // Now Show All Confirmed Reviews
   display review(text file);
   cout << "------" << endl;
   cin.ignore();
   cin.get();
}
void REVIEW::give_comment(string text_file) {
   char select;
   string name, city, state, date, rate, main reason, comments;
```

```
user info(name, city, state, date);
   user review(name, city, state, date, rate, main reason, comments);
   while (true) {
      clear_screen();
      temp review();
      cout << string(60, '-') << endl;
      cout << string(60, '-') << endl;
      cout << "Enter Option: ";</pre>
      cin >> select;
      if (select == 'q' || select == 'Q') {
         cout << "-----" << endl;
         break;
      } else if (select == 'c' || select == 'C') {
         confirmation(text file, name, city, state, date, rate, main_reason, comments);
         break;
      } else if (select == 'm' || select == 'M') {
             modify review(text file, name, city, state, date, rate, main reason,
comments);
         break;
      \} else if (select == 'd' || select == 'D') {
             delete review(text file, name, city, state, date, rate, main reason,
comments);
```

```
break;
       } else {
          cout << "-----" << endl;
          cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle buffer
          cin.get();
       }
   }
}
void REVIEW::track(string text_file) {
   char select;
   string name, city, state, date, rate, main reason, comments;
   while (true) {
      clear_screen();
       cout << string(60, '-') << endl;
       cout << "\t\t Select Option" << endl;</pre>
       cout << string(60, '-') << endl;
       cout << "<1> " << "Give Comment" << endl;
       cout << "<2> " << "View Review" << endl;
       cout << "<Q> " << "Quit" << endl;
       cout << string(60, '-') << endl;
       cout << "Enter Option: ";</pre>
       cin >> select;
       if (select == '1') {
```

```
give comment(text file);
         break;
      } else if (select == '2') {
         clear_screen();
         display review(text file);
         cin.ignore();
         cin.get();
      } else if (select == 'q' || select == 'Q') {
         cout << "-----" << endl;
         break;
      } else {
         cout << "-----" << endl;
         cin.clear(); // Clear The Error Input (Avoid Infinite Loop)
         cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle buffer
         cin.get();
      }
}
void REVIEW::restaurant_r() {
   while (true) {
      clear_screen();
      cout << string(60, '-') << endl;
```

clear screen();

```
cout << "\t\tRestaurant Details\n";</pre>
cout << string(60, '-') << endl;
ifstream in_file("restaurant_data.txt", ios::in);
string line;
int i=1;
char ch;
while (getline(in_file, line)) {
   cout << "<" << i << "> " << line << endl;
   i++;
}
cout << string(60, '-') << endl;
in file.close();
cin >> ch;
if (ch>='1' && ch<='8') {
   switch (ch) {
       case '1':
          track("ah ma review.txt");
          break;
       case '2':
          track("desa_review.txt");
          break;
       case '3':
          track("fun_review.txt");
          break;
       case '4':
```

```
track("happy thai review.txt");
               break;
            case '5':
               track("mrs_yau_review.txt");
               break;
            case '6':
               track("mye review.txt");
               break;
            case '7':
               track("taiwan review.txt");
               break;
            case '8':
               track("wei_duo_review.txt");
               break;
            default:
               cout << "-----" Please Try Again!-----"
<< endl;
               break;
         }
      \} else if (ch == 'q' || ch == 'Q') {
         cout << "-----" << endl;
         break;
      } else {
         cout << "-----" << endl;
         cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
         cin.get(); // Pause
```

```
}
}
void REVIEW::cafe_r() {
   while (true) {
       clear screen();
       cout << string(60, '-') << endl;
       cout << "\t\t Cafe Details\n";</pre>
       cout << string(60, '-') << endl;
       ifstream in_file("cafe_data.txt", ios::in);
       string line;
       int i=1;
       char ch;
       while (getline(in_file, line)) {
          cout << "<" << i << "> " << line << endl;
          i++;
       }
      cout << string(60, '-') << endl;
       in_file.close();
       cin >> ch;
      if (ch>='1' && ch<='7') {
          switch (ch) {
              case '1':
```

```
track("bingxue review.txt");
                break;
             case '2':
                track("blackboard_review.txt");
                break;
             case '3':
                track("mixue review.txt");
                break;
             case '4':
                track("secret review.txt");
                break;
             case '5':
                track("snowy_review.txt");
                break;
             case '6':
                track("zaba review.txt");
                break;
             case '7':
                track("zus_review.txt");
                break;
             default:
                cout << "-----" Please Try Again!-----"
<< endl;
                break;
          }
      } else if (ch == 'q' \parallel ch == 'Q') {
          cout << "-----" << endl;
          break;
```

```
} else {
          cout << "-----" << endl;
          cin.ignore(numeric_limits<streamsize>::max(), '\n'); // Handle Buffer
          cin.get(); // Pause
       }
   }
}
void REVIEW::fast food r() {
   while (true) {
       clear_screen();
       cout << string(60, '-') << endl;
                       Fast Food Store Details\n";
       cout << "\t
       cout << string(60, '-') << endl;
       ifstream in_file("fast_food_data.txt", ios::in);
       string line;
       int i=1;
       char ch;
       while (getline(in_file, line)) {
          cout << "<" << i << "> " << line << endl;
          i++;
       }
       cout << string(60, '-') << endl;
       in file.close();
```

```
cin >> ch;
     if (ch>='1' && ch<='4') {
        switch (ch) {
           case '1':
              track("burger review.txt");
              break;
           case '2':
              track("domino_review.txt");
              break;
           case '3':
              track("kfc_review.txt");
              break;
           case '4':
              track("pizza_review.txt");
              break;
           default:
              cout << "-----" Please Try Again!-----"
<< endl;
              break;
        }
     \} else if (ch == 'q' || ch == 'Q') {
        cout << "-----" << endl;
        break;
     } else {
        cout << "-----" << endl;
```

```
cin.ignore(numeric limits<streamsize>::max(), '\n'); // Handle Buffer
           cin.get(); // Pause
       }
   }
}
Review.h
#include <string>
using namespace std;
class REVIEW {
   public:
   // Core Functions
   void restaurant r();
   void cafe r();
   void fast_food_r();
   // Data Management Functions
   void user info(string &name, string &city, string &state, string &date);
   void user review(string name, string city, string state, string date, string &rate,
string &main reason, string &comments);
   void display review(string text file);
   void temp review();
   void modify review(string text file, string name, string city, string state, string date,
string rate, string main_reason, string comments);
   void delete_review(string text_file, string name, string city, string state, string date,
string rate, string main_reason, string comments);
   void confirmation(string text file, string name, string city, string state, string date,
```

```
string rate, string main_reason, string comments);
  void give_comment(string text_file);
  void track(string text_file);

// Clear All Data
  void clear_screen();
}
```

### 3.0 Sample output

This is the main menu for user to choose from 1(Food stalls tracking) and 2 (Review). Here go through food stalls tracking

This for invalid input in main menu.

Quit option.

#### Input 1 for restaurant

Here we choose first restaurant to go to tracking system.

Handle invalid input.

```
Codes
        Foods & Beverages
                                                  Prices
001
        Kuching Laksa (S)
                                                   13.00
002
        Fish Ball Noodle (S)
                                                   11.00
003
        Shredded Chicken Hor Fun (S)
                                                   13.00
        Nasi Lemak
004
                                                   13.90
005
        Lu Rou Rice
                                                   13.90
006
        loklok
                                                   10.00
                       Choose Items
Enter Food Code: 001
Enter Quantity: 1
Total Price: RM13.00
Wish to proceed? <Y>es/<N>o: y
Enter Food Code: 002
Enter Quantity: 1
Total Price: RM11.00
Wish to proceed? <Y>es/<N>o: n
Overall Price: RM24.00
______
```

Then, user can choose what food he prefers, and the system will done the calculation and display the overall price.

Codes	Foods & Beverages	Prices
001 002 003 004 005 006	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice Lok Lok	13.00 11.00 13.00 13.90 13.90 8.00
	 Distance: 5km g Hours: 06:30 AM - 09:00 PM	
<a>dd <m< td=""><td></td><td></td></m<></a>		
Enter Op	tion:	

Staff can add, modify, delete or proceed to calculation

Codes	Foods & Beverages	Prices
001 002 003 004 005	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice	13.00 11.00 13.00 13.90 13.90
Add Food	Details (type 'Q' to quit)	
Enter Food Code: 006 Enter Food Description: Lok Lok Enter Food Price: 8		

# Staff can add other food under add option

Codes	Foods & Beverages	Prices
001 002 003 004 005 006	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice loklok	13.00 11.00 13.00 13.90 13.90 10.00

Staff can delete the food

 Codes	Foods & Beverages	 Prices		
001 002 003 004 005	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice	13.00 11.00 13.00 13.90 13.90		
Walking Distance: 5km Operating Hours: 06:30 AM - 09:00 PM				
<pre><a>dd <m>odify <d>elete <c>alculate <q>uit</q></c></d></m></a></pre>				
Enter Opt	tion:			

## After deleted

Codes	Foods & Beverages	Prices	
001 002 003 004 005 007	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice loklok	13.00 11.00 13.00 13.90 13.90 10.00	
Delete Food Details (type 'Q' to quit)			
Enter Food Code: 006Code Does Not Exist, Cannot Be Deleted			

Validation for delete

 Codes	Foods & Beverages	Prices	
001 002 003 004 005 006	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice loklok	13.00 11.00 13.00 13.90 13.90 10.00	
Modify Food Details (type 'Q' to quit)			
	Enter Food Code: 006 <c>ode <d>escription <p>rice <q>uit: c</q></p></d></c>		
Enter Ne	Enter New Food Code: 007		

# Staff can modify food code

Codes	Foods & Beverages	Prices
001 002 003 004 005 007	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice loklok	13.00 11.00 13.00 13.90 13.90 10.00
_	 Distance: 5km ng Hours: 06:30 AM - 09:00 PM	
<a>dd &lt;</a>	M>odify <d>elete <c>alculate</c></d>	<q>uit</q>
Enter 0	ption:	

After modify food code for lok lok

```
Codes
         Foods & Beverages
                                                         Prices
001
         Kuching Laksa (S)
                                                         13.00
         Fish Ball Noodle (S)
002
                                                         11.00
         Shredded Chicken Hor Fun (S)
003
                                                         13.00
004
         Nasi Lemak
                                                         13.90
005
         Lu Rou Rice
                                                         13.90
         loklok
006
                                                         10.00
Modify Food Details (type 'Q' to quit)
Enter Food Code: 006
<C>ode <D>escription <P>rice
                                <Q>uit: p
Enter New Food Price: 9
```

### Staff can modify the food price

Codes	Foods & Beverages	Prices	
001 002 003 004 005 006	Kuching Laksa (S) Fish Ball Noodle (S) Shredded Chicken Hor Fun (S) Nasi Lemak Lu Rou Rice loklok	13.00 11.00 13.00 13.90 13.90 9.00	

After modify food price

```
Codes
         Foods & Beverages
                                                       Prices
001
         Kuching Laksa (S)
                                                         13.00
         Fish Ball Noodle (S)
002
                                                         11.00
         Shredded Chicken Hor Fun (S)
003
                                                        13.00
         Nasi Lemak
004
                                                         13.90
         Lu Rou Rice
005
                                                         13.90
006
         loklok
                                                         10.00
Modify Food Details (type 'Q' to quit)
Enter Food Code: 006
<C>ode <D>escription <P>rice <Q>uit: p
Enter New Food Price: -1
          -----Invalid Price, Please Reenter----
```

## Invalid price validation

User can go in review system to choose either give comment or view review

```
Select Option

<1> Give Comment

<2> View Review

<Q> Quit

______

Enter Option: 3

______Invalid Option, Pls Try Again------
```

Handle invalid option

```
Feedbacks from Users

Carolyn Chong, from Bandar Sungai Long, Selangor

***** for Exceptional Service
Excellent Service

Lesley Lin, from Shah Alam, Selangor

*** for Poor Cleanliness
Bad Environment

Adam Lai, from Bandar Sungai Long, Selangor

**** for Nice Taste of Food

-
```

This is for view review option

```
Enter Personal Info

Name (Joey Chong): chong
City (Bandar Sungai Long): sungai long
State (Selangor): selangor
Date (01/01/2025): 01/02/2024

Please rate your overall experience

Rating (****): ****
Main Reason (Exceptional Service): nice service
Comments/Feedbacks: -
```

Under option 1, user can give their comments

Then, user can choose whether to confirm, modify, delete or quit.

This is for confirm option

User can delete review

```
Preview

wong, from bandar sungai long, selangor

***** for Environment

Environment is clean and comfortable

Enter Personal Info

Name (Joey Chong): Ling Jin Sheng
City (Bandar Sungai Long): Bandar Sungai Long
State (Selangor): Selangor
Date (01/01/2025): 01/01/2025

Please rate your overall experience

Rating (*****): *****

Main Reason (Exceptional Service): Environment
Comments/Feedbacks: Environment is clean and comfortable
```

For modify option. User can choose to modify their rating and review if there is any error.

```
Feedbacks from Users
Carolyn Chong, from Bandar Sungai Long, Selangor
***** for Exceptional Service
Excellent Service
Lesley Lin, from Shah Alam, Selangor
*** for Poor Cleanliness
Bad Environment
Adam Lai, from Bandar Sungai Long, Selangor **** for Nice Taste of Food
Qin Yan, from Bandar Sungai Long, Selangor
**** for Clean Environment
chong, from sungai long, selangor
**** for nice service
tan , from sungai long, selangor
***** for nice service
Staffs are friendly
Ling Jin Sheng, from Bandar Sungai Long, Selangor
**** for Environment
Environment is clean and comfortable
             -----Review Confirmed and Saved-
```

After modified, review is confirmed and saved in the text file.

## 4.0 Sample Input

## Ah ma.txt

```
Carolyn Chong, from Bandar Sungai Long, Selangor

*** for Nice taste of foods

Services have to improve
```

## Ah ma review.txt

**Bad Environment** 

```
Carolyn Chong, from Bandar Sungai Long, Selangor

***** for Exceptional Service

Excellent Service

Lesley Lin, from Shah Alam, Selangor

*** for Poor Cleanliness
```

Adam Lai, from Bandar Sungai Long, Selangor

\*\*\*\* for Nice Taste of Food

\_

Qin Yan, from Bandar Sungai Long, Selangor

\*\*\*\* for Clean Environment

-

chong, from sungai long, selangor
\*\*\*\*\* for nice service

\_

tan , from sungai long, selangor

\*\*\*\*\* for nice service

Staffs are friendly

Ling Jin Sheng, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Environment

Environment is clean and comfortable

## **Bingxue.txt**

001|Strawberry Sundae|6

002|Chocolate Sundae|6

003|Brown Sugar Bubble Tea|6.5

004|Honey Peach Milk Tea|8

005|Iced Passion Fruit|7

006|Lemon Black Tea|4.99

007|Grape Bucket|12

008|Mango Coconut Milk|9

009|Honey Peach Coconut Milk|9

010|Mango Milkshake|6

## Bingxue review.txt

Ling Qing Yan, from Bandar Sungai Long, Selangor

\*\*\* for Excellent Service

Staffs are friendly and well-behave

Ali, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Nice Taste for Beverage

\_

## **Blackboard.txt**

001|Mongolian Chicken With Rice|14.9

002|Sweet & Sour Chicken With Rice|14.9

003|Mongolian Fish With Rice|14.9

004|Lemon Chicken With Rice|14.9

005|Chicken Maryland|25.9

006|Fried Chicken Chop With Carbonara Spaghetti|23.9

007|Fish & Chips|21.9

008|Grilled Chicken Chop With Baked Cheese|26.9

009|Kiwi Fruit Tea|7.9

010|Oolong Green Tea|5.9

## **Blackboard** review.txt

Adam, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

## **Burger.txt**

001|Fish N Crisp|8.5

002|Chick N Crisp|7.3

003|Long Chicken|10.2

004|Tendercrisp|12.95

005|Tendergrill|12.2

006|Cheeseburger|8.5

007|Double cheeseburger|12.6

008|Whopper Jr|8.9

009|Whopper|14.9

010|Single BBQ Beafacon|11.3

## burger review.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

## cafe data.txt

BingXue

BlackBoard

MiXue

Secret Penang

Snowy Ice

Zaba Long

Zus Coffee

## desa ctk.txt

001|Nasi Goreng|5

002|Maggi Goreng|5

003|Roti Canai|1.5

004|Kuew Teow Goreng|5

005|Nasi Ayam, Sayur|8.5

006|French Toast|3.5

007|Milo Ice|3

008|Teh O Limau Ice|2.3

009|Nescafe O|2.5

010|Cham|2.5

## desa review.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

## domino.txt

001|Chicken Pepperoni Pizza|35.9

002|Aloha Chicken Pizza (Regular)|35.9

003|Chocolate Lava Cake|12.9

004|Honey Garlic Roasted Chicken (6/pcs)|20.9

005|Bottle Pepsi Zero Sugar (1.5L)|7.9

006|Bottle 7 Up (1.5L)|7.9

## domino review.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

#### fast food data.txt

Burger King

Domino

**KFC** 

Pizza Hut

## fun fun.txt

001|Traditional Pork Noodle (Soup/Dry)|10.5

002|Bitter Gourd Pork Noodle (Soup/Dry)|12

003|Herb Pork Noodle (Soup/Dry)|12

004|Seaweed Pork Noodle (Soup/Dry)|12

005|Egg Pork Noodle (Soup/Dry)|12

006|All-in-one Pork Noodle (Soup/Dry)|16.5

007|XO Pork Noodle|14.5

008|Fish Head Noodle|14.5

009|Spicy Pork Noodle (Soup/Dry)|12

010|Mushroom Pork Noodle (Soup/Dry)|12

## fun review.txt

Ali, from Bandar Sungai Long, Selangor

\*\*\* for Price

Price is expensive

## happy thai.txt

001|Belacan Fried Rice|19.9

002|Tomyam Fried Rice|15.9

003|Thai Style Fried Rice|13.9

004|Green Curry Fried Rice|15.9

005|Kailan Crispy Pork Rice|15.9

006|Pad Thai|15.9

007|Fried Mama Mee|15.9

008|Stir Fried Noodles|14.9

009|Kangkung Belacan|15.9

010|Bittergourd Egg|17.9

## happy thai review.txt

Ashley Lee, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Services

Nice and friendly services from staffs

## kfc.txt

001|3pc Portuguese Egg Tart|5.5

002|Snaker Box|16.49

003|Snack Plate (NO DRINK)|18.99

004|1pc Rice Combo|15.99

005|Spicy Mala Burger Combo|14.88

006|Zinger Classic Combo|19.99

007|Colonel Classic Combo|15.49

008|6pc Nuggets Combo|15.99

009|Loaded Cheezy Fries|8.99

010|Cheezy Wedges (L)|8.99

## kfc review.txt

Li Wei, from Bandar Sungai Long, Selangor

\*\*\* for Friendly price

Services are too slow, and the table is dirty

## mixue.txt

001|Ice Cream|2

002|Fresh Lemonade|3

003|Super Boba Sundae|5

004|O-CoCo Milk Tea|6

005|Ice Cream Toffee Hazelnut Latte|5.5

006|Creamy Mango Boba|7

007|Passion Fruit Bubble Tea|6

008|Peach Mi-Shake|5

009|Kiwi Jasmine Tea|5

010|Classical Milk Tea|5

## mixue review.txt

Ashley Chin, from Bandar Sungai Long, Selangor

\*\*\*\* for Exceptional Service

Overall, the environemnt is clean and comfortable,

price is friendly for students.

However, payment method need to improve.

#### mrs yau.txt

001|Beef Noodles Soup|10.5

002|Baked Chicken Cheese Rice|22.9

003|Pork Soup With Rice|10.5

004|Taiwan Sausage (3/pcs)|10.9

005|Crispy Fry Dumpling|15.9

006|Iced Latte |10.9

007|Iced Lime Tea|5.9

008|Iced Blueberry Yogurt|7.5

## mrs yau review.txt

John, from Bandar Sungai Long, Selangor

\*\*\* for Exceptional Service

Environment need to improve

## mye mye.txt

001|White Coffee|3

002|Oat Cereal|2.8

003|Kopi O|2.6

004|Teh|2.6

005|Teh O|2.6

006|Teh C|2.8

007|Cham|3

008|Horlicks|3.2

009|Nescafe|3.5

010|Kopi|2.8

## mye review.txt

John, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

## pizza.txt

001|Ramandan special-2 regular pizzas|19.8

002|Ramadan Deal 4 Pax Combo|39.6

003|Mybox Pizza duo|30

004|Hut's meal pasta 2(2Pax)|31.9

005|Hut's meal 2(2 pax)|31.9

006|Double Box large (5-6Pax)|58.9

007|Aloha chicken with thousand island (L)|35.9

008|Island Tuna with thousand island (L)|35.9

009|Beef pepperoni with thousand island (L)|35.9

010|BBQ chicken with thousand island (L)|35.9

## pizza review.txt

Zhang Jie, from Bandar Sungai Long, Selangor

\*\*\*\* for Comfortable Environment

Foods and beverages are quite expensive

## restaurant data.txt

Ah Ma Sarawak Kampua Mee

Desa CTK

Fun Fun Kitchen

Happy Thai Kitchen

Mrs Yau Hong Kong Style

Mye Mye

Taiwan Dami

Wei Duo Mei Food

## secret penang.txt

001|Penang Famous Fried Kuey Teow|11

002|Penang White Curry Mee|11

003|Penang Hokkien Prawn Mee|11

004|Penang Loh Mee|10

005|Penang Asam Laksa|10

006|Penang Kuey Teow Soup|9.5

007|Penang Loh Bak|18

008|Fish Ball Soup|8

009|Fried Fish Cake|10

010|Fried Shrimp Cake|8

## secret revieew.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\* for Poor Service

Bad Attitutude and behaviour

#### snowy.txt

001|Bingsu(3 topping)|12.9

002|Bingsu(5 topping)|14.9

003|Snow Fungus Longan|4.9

004|Longan Jelly|4.9

005|Jasmine Tea|3

006|Arno White Taro Ball|10.9

007|Explosion Glutinous Rice Cake (Yogurt)|9.9

008|Glutinous Rice Cake (Dipping Black Sugar)|9.9

009|Explosion Glutinous Rice Cake (Brown sugar)|9.9

010|Grass Jelly + Taro Balls|9.9

#### snowy review.txt

Lee Guo Jian, from Bandar Sungai Long, Selangor

\*\*\*\* for Exceptional Service

Staffs are friendly and kind

#### Taiwan dami.txt

001|Braised Beef Soup Noodle|20.9

002|Pork Dumpling Soup Noodle|11.9

003|Taiwanese Sun Bei Chicken Rice|26.9

004|Ma Po To Fu Rice|20.9

005|Sweet & Sour Chicken Bento|17.9

006|SAN PIN Bento|19.9

007|Fried Chicken Chop with Black Pepper Sauce Bento|17.9

008|Braised Pork "PAI KU" Rice|20.9

009|Jasmine Green Tea|3

010|Lemon AiYu Jelly|1.9

#### Taiwan review.txt

Chong Xin, from Bandar Sungai Long, Selangor

\*\*\* for Nice Service

Still can improve the cleanliness of the environment

#### Temp review.txt

#### Wei duo.txt

001|Hang Zhou Xiao Lang Bao (6/pcs)|7

002|Steamed Dumplings (8/pcs)|8

003|Tasty Wonton (8/pcs)|6

004|Hot and Sour Rice Noodle|8

005|Fried Rice with Egg|8

006|Fried Noodle with Egg|10

007|Pork Bone Soup Noodle|12

008|Griddle-Cooked Fat Intestines|26.8

#### Wei duo review.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\* for Poor services and environment

Staffs are disrespect to customers, and the environment is not dirty

## Zaba long.txt

001|Kerabu Rice|9.9

002|Japanese Curry Chicken Rice|18.5

003|Japan Chicken Rice|13.9

004|Potato Luncheon Meat And Scrambled Egg Rice Bowl|12.5

005|Double Mushroom And Scrambled Egg Rice Bowl|13.9

006|Curry Chicken Nasi Lemak|17.9

007|Crunchy Chicken Chop Noodles|15.5

008|Fried Chicken (2 Pcs)|15.5

009|French Fries|11.5

010|Nestum+Kopi+Milo|6.6

## Zaba review.txt

Ali, from Bandar Sungai Long, Selangor

\*\*\*\*\* for Exceptional Service

**Excellent Service** 

## Zus coffee.txt

001|White Peach Oolong Lemonade 1L|24.9

002|Matcha latte 1L|33.9

003|Spanish latte|11.2

004|Ceo latte|9.9

005|Zus signature Curry Puff|3.9

006|Chicken slice & Cheese Bagel|10.9

007|Chocolate roll|8.5

008|Pearl white sugar|6.9

009|Tom yum chicken puff|3.9

010|Big brekkie croissant|10.9

## Zus review.txt

Carolyn Chong, from Bandar Sungai Long, Selangor

\*\*\* for Nice taste of foods

Services have to improve

# **5.0 Contribution of contribution**

Name	Contribution
Tee Le Xuan	Review system code
Nicoleete Tu Tze Ying	Flowchart
Evelyn Chin Shien Lin	Tracking system code
Hooi Guan Weng	Structure chart and report