

Project report

on

Restaurant Billing system

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Summary

The Restaurant billing system application refers to a complete restaurant billing system that can allow you to perform a smooth transaction as well as maintain all additional activities such as order management, production system, inventory tracking, and so on. Moreover, this system is mainly a centralized control system that records all transactional history, customer information, purchase, and sale information.

Chapter - 1 Introduction to Project

1.1 Chapter Overview

This chapter provides an overview of the project by explaining the challenge that restaurants face, the main objectives that the system expects to achieve, and a brief introduction to existing solutions.

1.2 The Problem

The restaurant billing system is specially designed for the purpose of adding items and calculating the total bill in a restaurant. This system elaborates basic concept for storing and generating ordered item's detail.

- First, show the list of foods with their associated prices and availability.
- Then, take orders from the customer as much as he/she wants.
- If any food is unavailable, notify the customer.
- Finally, prepare a bill of ordered items. Add 10% service charge and 15% value added tax to the total bill.

1.3 **Project Objective**

The objective of this project is to build a restaurant billing system using all the skills and techniques from the field ensuring that no common development mistakes are reproduced. Project management is critical to all software engineering projects and keeping to a project plan will be of similar importance. Any business's major goal is to maximize profit by increasing efficiency and lowering overheads while maintaining customer

happiness. Many restaurants now employ a paper-based system to interact with the kitchen, which has been demonstrated to be one of the least efficient methods. Even though this strategy is used in profitable restaurants, various issues may be considered as diminishing the restaurant's efficiency:

- Miscommunication caused by handwriting.
- Inefficient restaurant-kitchen communication.
- Difficult order tracking and time management.
- Difficult stock management.
- Limited statistical output.

These issues can be avoided or solved by using a restaurant billing system, resulting in increased earnings.

1.4 **Project Proposal**

The goal of this project is to develop a restaurant billing system that combines the advantages of all existing systems while eliminating their disadvantages and adding many new features. A list of proposed features can be found in table 1.

Table 1: A table showing the proposed features of the system and the motivation behind the features.

Feature	Motivation
Menu display	Viewing of all active meals
Meal option and preference	Flexible meal options available for
selection	the customer

Wireless order system	Waiters are no longer required to
	walk to take order

1.5 **Summary of Chapters**

The rest of this report consists of the following chapters:

- **Project Design:** Several diagrammatic approaches are used to design the project.
- **Implementation:** Uses diagrams and pseudocode to discuss the Program's implementation.
- Outcomes: Uses screenshots to demonstrate the system.
- **Testing:** Describes how the system was put to the test.
- **Conclusion:** Project conclusion with future development ideas.

Chapter - 2 Project Design

When we begin working on the project design, we encountered a variety of issues. However, we followed some phases:

Design Objectives –

The primary goal of the design is to deliver the requirements as specified already.

Practically -

The system should be stable and can be operated by people on average.

Cost -

It is desirable to aim for a system with a minimum cost subject to the condition that it must satisfy all requirements & maintain maintenance.

Flexibility –

The system should be modifiable depending on the changing needs of the user.

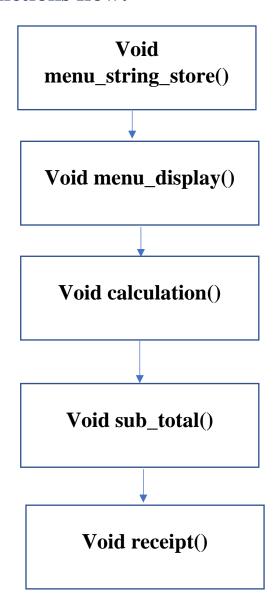
Design Process –

We need to create an application that is engaging for the user and the restaurant owner. That's we need to take some step. Below the show of the step of the process:

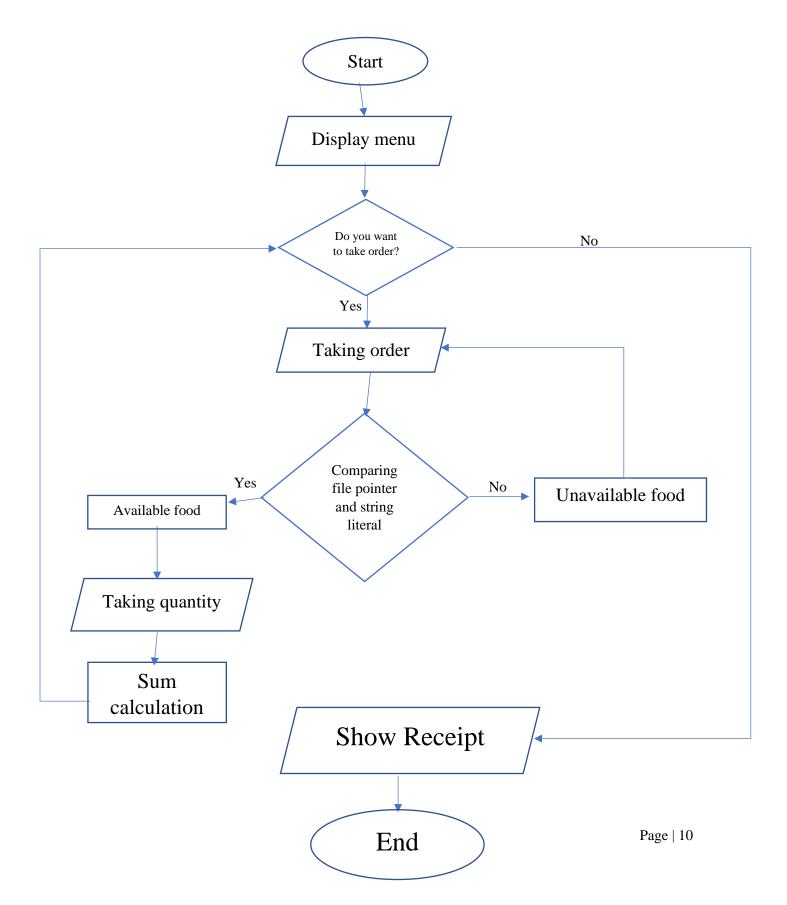
Algorithm

- 1. Firstly, the program stored all the menu names as a string literal.
- 2. Secondly, we used a file pointer for interactivity, and in that file, we wrote the menu name exactly as it will appear in the display. If a menu item is unavailable, the owner will simply write (U/A) beside the menu name in the file.
- 3. Then, stored this menu name in a file as a string array. We stored this because we compared string literals with string arrays. If this comparison ends in 0, then the food is available; else the food is unavailable, which will show in the display.
- 4. After that, A user can see what food is available and which is not. He/she can order food items based on availability as much as he/she wants. He/she just has to input the menu number and quantity.
- 5. The receipt will show what the user ordered from the menu and the food's price. Then sub-total, vat, and the net total will be calculated.
- 6. Lastly, this receipt will be stored in a new file pointer as just a reminder for the owner of what the user has ordered.

User-Defined functions flow:



Flowchart



Source Code

```
#include <stdio.h>
#include <string.h> // used this to perform string library function
#include <ctype.h> // used this to lowercase a character
#include <conio.h> // used this header for getch()
#include <time.h> // used this to generate date and time
struct menu
   int compare;
   char *string_from_menu;  // String literal. can't change any
   char string_from_database[200]; // stored here menu name from txt file.
} menu_string[50];
50 stack of items here. But we stored 25 stack of items here.
struct calculation_part
   double sum, total;
   int quantity, input, limit;
   char string[200], name[100];
} sum_calculation, sum[50], receipt_string[50], loop, name; // loop.limit is
input limit from user
FILE *ptr1, *ptr2; // declared FILE pointer globally
time_t currentTime; // special types of data_type "time_h" for time header,
declared currentTime variable
void menu_string_store(); // function prototype
```

```
void menu_display(); // for menu display
void calculation();  // for calculation
void receipt();
void sub_total();
int main()
  char input;
  ***********************************
**********\n");
  RESTAURANT\"\t\t\t\t\t\t\t\t\t\n");
  *******************************
**********\n");
  printf("\n\n\n\t\t\*** Press 'Y' to display the menu to progress
further and press 'N' to close the application. ***\n\n");
start:
  printf("Press (Y/N):\t");
  scanf("%c", &input);
  fflush(stdin);
  if (tolower(input) == 'y') // can input either y or Y
     menu_string_store();
     menu_display();
     calculation();
     if (loop.limit == 0)
     else
        printf("\t\t\t\t\t\t\t\t\t*** Receipt is given below: ***");
        receipt();
     ***\n\n\t\t\t\t\t\t\t\(Press any button to exit)");
  else if (tolower(input) == 'n') // can input either n or N
```

```
printf("\n\n\t\t\t\t\t\t\t\t\t*** Have a nice day!
***\n\n\t\t\t\t\t\t\t(Press any button to exit)");
   else
       printf("*** Invalid keyword! Press 'Y' to display the menu to
progress further and press 'N' to close the application. ***\n\n");
       goto start; // if user press any keyword except y or n..goto will
   getch(); // it will give some time
   return 0;
void sub_total()
   for (int i = 0; i < loop.limit; i++)</pre>
       sum_calculation.total += sum[i].sum; // simply summation of all
void receipt()
    time(&currentTime); // passing address through time library function of
    int i;
    double service_charge, vat;
    printf("\n\n\n-----
                ----\n\n");
   printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\n");
    printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\n");
    printf("\t\t\t\t\t\t\s", ctime(&currentTime)); // ctime library function
    printf("\t\t\t\t\t\tCustomer Name: %s\n", name.name);
   printf("\t\t\t\t\t\t----
   ----\n");
   printf("\t\t\t\t\t\tItems\t\t\t\tQty\t\tTotal\n");
   printf("\t\t\t\t\t\t-----
   ---\n\n");
   for (i = 0; i < loop.limit; i++)</pre>
```

```
if (strlen(receipt_string[i].string) <= 15)</pre>
            if (sum[i].sum == 0)
                continue;
            else
                printf("\t\t\t\t\t\t\t\s\t\t\t%d\t\t%.2lf\n",
receipt_string[i].string, sum[i].quantity, sum[i].sum);
        else if (strlen(receipt_string[i].string) > 15 &&
strlen(receipt_string[i].string) <= 22)</pre>
            if (sum[i].sum == 0)
                continue;
            else
                printf("\t\t\t\t\t\t\t\t\s\t\t%d\t\t%.2lf\n",
receipt_string[i].string, sum[i].quantity, sum[i].sum);
        else
        {
            if (sum[i].sum == 0)
                continue;
            else
                printf("\t\t\t\t\t\t\t\s\t%d\t\t%.2lf\n",
receipt_string[i].string, sum[i].quantity, sum[i].sum);
    printf("\n\t\t\t\t\t\t-----
    ----\n");
    printf("\t\t\t\t\t\tSub Total\t\t\t\t");
    sub_total();
    printf("%.2lf\n", sum_calculation.total);
    printf("\t\t\t\t\t\t\t----\n");
    service_charge = .1 * sum_calculation.total;
    printf("\t\t\t\t\tService Charge (10%)\t\t\t\t\.2lf\n",
service_charge);
    vat = .15 * sum_calculation.total;
    printf("\t\t\t\t\tValue Added Tax (15%)\t\t\t%.2lf\n", vat);
    printf("\t\t\t\t\t\t---
    ---\n"):
```

```
printf("\t\t\t\t\tGrand Total\t\t\t\t\*.2lf\n", sum_calculation.total
 service_charge + vat);
   printf("\t\t\t\t\t\t----
   ----\n");
   ptr2 = fopen("C:\\Users\\Rifat\\Desktop\\Project\\Owners
Database\\Receipt List.txt", "a");
   fprintf(ptr2, "\n\n\n----
   fprintf(ptr2, "\t\t\tChills Restaurant\n");
   fprintf(ptr2, "\t\t\----\n");
   fprintf(ptr2, "%s", ctime(&currentTime)); // ctime library function
   fprintf(ptr2, "Customer Name: %s\n", name.name);
   fprintf(ptr2, "----
      ----\n");
   fprintf(ptr2, "Items\t\t\t\tQty\t\tTotal\n");
   fprintf(ptr2, "------
     ----\n\n");
   for (i = 0; i < loop.limit; i++)</pre>
       if (strlen(receipt_string[i].string) <= 15)</pre>
           if (sum[i].sum == 0)
               continue;
           else
               fprintf(ptr2, "%s\t\t\t%d\t\t%.2lf\n",
receipt_string[i].string, sum[i].quantity, sum[i].sum);
       else if (strlen(receipt_string[i].string) > 15 &&
strlen(receipt_string[i].string) <= 22)</pre>
           if (sum[i].sum == 0)
               continue;
               fprintf(ptr2, "%s\t\t%d\t\t%.2lf\n",
receipt_string[i].string, sum[i].quantity, sum[i].sum);
```

```
if (sum[i].sum == 0)
               continue;
           else
               fprintf(ptr2, "%s\t%d\t\t%.2lf\n", receipt_string[i].string,
sum[i].quantity, sum[i].sum);
   fprintf(ptr2, "\n----
             ----\n");
   fprintf(ptr2, "Sub Total\t\t\t\t\t");
   fprintf(ptr2, "%.2lf\n", sum_calculation.total);
   fprintf(ptr2, "----\n");
   fprintf(ptr2, "Service Charge (10%)\t\t\t\t\.2lf\n", service_charge);
   fprintf(ptr2, "Value Added Tax (15%)\t\t\t\t\.2lf\n", vat);
   fprintf(ptr2, "-----
      ----\n");
   fprintf(ptr2, "Grand Total\t\t\t\t\t\.2lf\n", sum_calculation.total +
service_charge + vat);
   fprintf(ptr2, "-----
     ----\n");
   fclose(ptr2);
void calculation()
   char input; // local variable, takes only single character
        ----\n\n");
   printf("\t\t**** Press 'Y' to continue ordering items from the menu
and press 'N' to finish ordering from the menu. ****\n\n");
   printf("Please enter the customer name:\t");
   fflush(stdin); // if there is any newline character comes through this
library function converts this '\n' to NULL to avoid buffer
   gets(name.name); // customer name
   printf("\n\n");
   for (loop.limit = 0; loop.limit < 50; loop.limit++)</pre>
   {
   again:
       printf("Press (Y/N):\t");
```

```
fflush(stdin);
        scanf("%c", &input);
        printf("\n");
        if (tolower(input) == 'y')
        again_menu:
            printf("Please enter the item number:\t");
            fflush(stdin);
            scanf("%d", &sum_calculation.input);
            switch (sum_calculation.input)
            case 1:
                if (menu_string[0].compare == 0) // see in void
                quantity_again1:
                    printf("Please enter the quantity:\t");
                    fflush(stdin); // again if \n exists it terminates with
or converts with NULL
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0) // if greater than 0
                    {
                        fflush(stdin);
                        sum[loop.limit].sum = 180.0 *
sum[loop.limit].guantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[0].string_from_menu); // copied our string menu no 1 to
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again1; // if not greeater than 0,
                else
```

```
printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again; // if the menu is unavailable code will jump
                }
            case 2:
                if (menu_string[1].compare == 0)
                quantity_again2:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 200.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[1].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again2;
                    }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 3:
                if (menu_string[2].compare == 0)
                quantity_again3:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
```

```
sum[loop.limit].sum = 225.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[2].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again3;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 4:
                if (menu_string[3].compare == 0)
                quantity_again4:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 230.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[3].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again4;
```

```
else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 5:
                if (menu_string[4].compare == 0)
                quantity_again5:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 250.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[4].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again5;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            case 6:
                if (menu_string[5].compare == 0)
                quantity_again6:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
```

```
if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 320.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[5].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again6;
                    }
                }
                else
                {
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            case 7:
                if (menu_string[6].compare == 0)
                quantity_again7:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 380.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[6].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again7;
```

```
}
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            case 8:
                if (menu_string[7].compare == 0)
                quantity_again8:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 430.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[7].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again8;
                    }
                }
                else
                {
                    printf("***This item is not available. Please select
another available item from the menu.***\n\n");
                    goto again;
                }
            case 9:
                if (menu_string[8].compare == 0)
                quantity_again9:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
```

```
scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 680.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[8].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again9;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 10:
                if (menu_string[9].compare == 0)
                quantity_again10:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 180.0 *
sum[loop.limit].guantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[9].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
```

```
goto quantity_again10;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 11:
                if (menu_string[10].compare == 0)
                quantity_again11:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 200.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[10].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again11;
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 12:
                if (menu_string[11].compare == 0)
                quantity_again12:
                    printf("Please enter the quantity:\t");
```

```
fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 225.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[11].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again12;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 13:
                if (menu_string[12].compare == 0)
                quantity_again13:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 230.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[12].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
```

```
printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again13;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 14:
                if (menu_string[13].compare == 0)
                quantity_again14:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 250.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[13].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again14;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            case 15:
                if (menu_string[14].compare == 0)
```

```
quantity_again15:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 320.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[14].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again15;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 16:
                if (menu_string[15].compare == 0)
                quantity_again16:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 380.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[15].string_from_menu);
                        printf("\n\n");
                        break;
                    }
```

```
printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again16;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 17:
                if (menu_string[16].compare == 0)
                quantity_again17:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                    {
                        sum[loop.limit].sum = 430.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[16].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again17;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 18:
                if (menu_string[17].compare == 0)
```

```
quantity_again18:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 680.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[17].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again18;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 19:
                if (menu_string[18].compare == 0)
                quantity_again19:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].guantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 120.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[18].string_from_menu);
                        printf("\n\n");
                        break;
```

```
else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again19;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu.*** \n\n");
                    goto again;
            case 20:
                if (menu_string[19].compare == 0)
                quantity_again20:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 130.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[19].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again20;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 21:
```

```
if (menu_string[20].compare == 0)
                quantity_again21:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 180.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[20].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again21;
                    }
                }
                else
                {
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            case 22:
                if (menu_string[21].compare == 0)
                {
                quantity_again22:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 140.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[21].string_from_menu);
                        printf("\n\n");
                        break:
```

```
else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again22;
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 23:
                if (menu_string[22].compare == 0)
                quantity_again23:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 140.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[22].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again23;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu.*** \n\n");
                    goto again;
```

```
case 24:
                if (menu_string[23].compare == 0)
                quantity_again24:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 160.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[23].string_from_menu);
                        printf("\n\n");
                        break;
                    }
                    else
                    {
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again24;
                    }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
            case 25:
                if (menu_string[24].compare == 0)
                quantity_again25:
                    printf("Please enter the quantity:\t");
                    fflush(stdin);
                    scanf("%d", &sum[loop.limit].quantity);
                    if (sum[loop.limit].quantity > 0)
                        sum[loop.limit].sum = 170.0 *
sum[loop.limit].quantity;
                        strcpy(receipt_string[loop.limit].string,
menu_string[24].string_from_menu);
                        printf("\n\n");
```

```
break;
                    }
                    else
                        printf("*** Invalid quantity! Please enter quantity
greater than 0. ***\n\n");
                        goto quantity_again25;
                    }
                }
                else
                    printf("*** This item is not available. Please select
another available item from the menu. ***\n\n");
                    goto again;
                }
            default:
                printf("*** Invalid menu number! Please enter valid menu
number. ***\n\n");
                goto again_menu;
        }
        else if (tolower(input) == 'n')
            printf("---
                 ----\n\n");
            break;
        }
        else
        {
            printf("*** Invalid keyword! Please press 'Y' to continue
ordering items from the menu and press 'N' to finish ordering from the menu.
***\n\n");
            fflush(stdin);
    }
}
void menu_string_store()
{ // in this function we stored serially menu items, these are string
    menu_string[0].string_from_menu = "1. BEEF BURGER";
    menu_string[1].string_from_menu = "2. BEEF BURGER WITH CHEESE";
```

```
menu_string[2].string_from_menu = "3. BEEF SMOKY BBQ CHEESE";
    menu_string[3].string_from_menu = "4. BEEF WITH BACON";
    menu_string[4].string_from_menu = "5. BEEF WITH SAUSAGE";
    menu_string[5].string_from_menu = "6. BEEF CHEESE BLAST";
    menu_string[6].string_from_menu = "7. BEEF SIGNATURE";
    menu_string[7].string_from_menu = "8. GIGANTO BEEF";
    menu_string[8].string_from_menu = "9. BINGE BEEF";
    menu_string[9].string_from_menu = "10. CHICKEN BURGER";
    menu_string[10].string_from_menu = "11. CHICKEN BURGER WITH CHEESE";
    menu_string[11].string_from_menu = "12. CHICKEN SMOKY BBQ CHEESE";
    menu_string[12].string_from_menu = "13. CHICKEN WITH BACON";
    menu_string[13].string_from_menu = "14. CHICKEN WITH SAUSAGE";
    menu_string[14].string_from_menu = "15. CHICKEN CHEESE BLAST";
    menu_string[15].string_from_menu = "16. CHICKEN SIGNATURE";
    menu_string[16].string_from_menu = "17. GIGANTO CHICKEN";
    menu_string[17].string_from_menu = "18. BINGE CHICKEN";
    menu_string[18].string_from_menu = "19. FRENCH FRIES";
    menu_string[19].string_from_menu = "20. CHICKEN FINGERS (10 PCS)";
    menu_string[20].string_from_menu = "21. NAGA DRUMS (3 PCS)";
    menu_string[21].string_from_menu = "22. COLD COFFEE";
    menu_string[22].string_from_menu = "23. MUNCH";
    menu_string[23].string_from_menu = "24. OREO";
    menu_string[24].string_from_menu = "25. NUTELLA";
void menu_display()
    int i = 0, j = 0, len;
    ptr1 = fopen("C:\\Users\\Rifat\\Desktop\\Project\\Owners Database\\Food
Availibility.txt", "r"); // file location (change it in your computer)
    char store[200];
    while (fgets(menu_string[i].string_from_database,
sizeof(menu_string[i].string_from_database), ptr1))
    { // fgets reads strings with a new line and to terminate the new line .
        len = strlen(menu_string[i].string_from_database);
        menu_string[i].string_from_database[len - 1] = 0;
        i++;
    }
    menu_string[i - 1].string_from_database[len - 1] = 'A'; // but fgets
```

```
for (j = 0; j < i; j++)
   { // compares the string of menu and string from database and stored in
      menu_string[j].compare = strcmp(menu_string[j].string_from_menu,
menu_string[j].string_from_database);
  }
   ********************************
************\n");
  ******************************
************\n");
  printf("\n");
  printf("\t\tBEEF BURGERS\t\t\t");
   printf("|\t\t CHICKEN BURGERS\t\t\t|\t\t\tSIDES\n");
  printf("\t\t-----\t\t\t|\t\t -----\t\t\t|\t\t\t\t\----
\n");
   if (menu_string[0].compare == 0)
      printf("%s\t\t\t| 180 TK |", menu_string[0].string_from_menu);
  else
      printf("%s(U/A)\t\t| 180 TK |", menu_string[0].string_from_menu);
  printf("\t");
   if (menu_string[9].compare == 0)
     printf("|%s\t\t| 180 TK |", menu_string[9].string_from_menu);
   else
      printf("|%s(U/A)\t\t| 180 TK |", menu_string[9].string_from_menu);
  printf("\t");
   if (menu_string[18].compare == 0)
      printf("|%s\t\t\t| 120 TK |\n", menu_string[18].string_from_menu);
   else
      printf("|%s(U/A)\t\t| 120 TK |\n",
menu_string[18].string_from_menu);
```

```
printf(" (Beef Patty, Special Sauce)\t\t\t| (Chicken Patty, Special
Sauce)\t\t\t|\n\t\t\t\t\t\t\t\t\t\t\t\t\t");
   if (menu_string[19].compare == 0)
       printf("|%s\t\t| 130 TK |\n", menu_string[19].string_from_menu);
   else
       printf("|%s(U/A)\t| 130 TK |\n", menu_string[19].string_from_menu);
   if (menu_string[1].compare == 0)
       printf("%s\t| 200 TK |", menu_string[1].string_from_menu);
   else
       printf("%s(U/A)\t| 200 TK |", menu_string[1].string_from_menu);
   printf("\t");
   if (menu_string[10].compare == 0)
       printf("|%s\t\t| 200 TK |", menu_string[10].string_from_menu);
   else
       printf("|%s(U/A)\t| 200 TK |", menu_string[10].string_from_menu);
   printf("\t|\n");
   printf(" (Beef Patty, Cheese, Special \t\t| (Chicken Patty, Cheese,
Special\t\t\t");
   if (menu_string[20].compare == 0)
       printf("|%s\t\t\t| 180 TK |", menu_string[20].string_from_menu);
   else
       printf("|%s(U/A)\t\t| 180 TK |", menu_string[20].string_from_menu);
   t\t\t\t\t\\t|\n");
   if (menu_string[2].compare == 0)
       printf("%s\t| 225 TK |", menu_string[2].string_from_menu);
   else
       printf("%s(U/A)\t| 225 TK |", menu_string[2].string_from_menu);
   printf("\t");
   if (menu_string[11].compare == 0)
       printf("|%s\t\t| 225 TK |", menu_string[11].string_from_menu);
   else
       printf("|%s(U/A)\t| 225 TK |", menu_string[11].string_from_menu);
```

```
printf("\t|\t\tSHAKES\n");
   printf(" (BBQ Sauce Cooked Beef Patty,\t\t| (BBQ Sauce Cooked Beef
Patty,\t\t\t\t\t----\n Cheese)\t\t\t\t
                                               Cheese)\t\t\t\t\t\t");
   if (menu_string[21].compare == 0)
       printf("|%s\t\t\t| 140 TK |", menu_string[21].string_from_menu);
   else
       printf("|%s(U/A)\t\t\t| 140 TK |",
menu_string[21].string_from_menu);
   if (menu_string[3].compare == 0)
       printf("%s\t\t| 230 TK |", menu_string[3].string_from_menu);
   else
       printf("%s(U/A)\t\t| 230 TK |", menu_string[3].string_from_menu);
   printf("\t");
   if (menu_string[3].compare == 0)
       printf("|%s\t\t\t| 230 TK |", menu_string[12].string_from_menu);
   else
       printf("|%s(U/A)\t\t| 230 TK |", menu_string[12].string_from_menu);
   printf("\t");
   if (menu_string[22].compare == 0)
       printf("|%s\t\t\t\t| 140 TK |\n", menu_string[22].string_from_menu);
   else
       printf("|%s(U/A)\t\t\t\t| 140 TK |\n",
menu_string[22].string_from_menu);
   printf(" (Beef Patty, Beef Bacon)\t\t\t
                                             (Chicken Patty, Beef
if (menu_string[23].compare == 0)
       printf("|%s\t\t\t| 160 TK |\n", menu_string[23].string_from_menu);
   else
       printf("|%s(U/A)\t\t\t| 160 TK |\n",
menu_string[23].string_from_menu);
   if (menu_string[4].compare == 0)
```

```
printf("%s\t\t| 250 TK |", menu_string[4].string_from_menu);
   else
       printf("%s(U/A)\t| 250 TK |", menu_string[4].string_from_menu);
   printf("\t");
   if (menu_string[13].compare == 0)
       printf("|%s\t\t| 250 TK |", menu_string[13].string_from_menu);
   else
       printf("|%s(U/A)\t\t| 250 TK |", menu_string[13].string_from_menu);
   printf("\t|\n");
   printf(" (Beef Patty, 2x Chicken \t\t\t) (Chicken Patty, 2x Chicken
\t\t\t\t");
   if (menu_string[24].compare == 0)
       printf("|%s\t\t\t| 170 TK |", menu_string[24].string_from_menu);
   else
       printf("|%s(U/A)\t\t\t| 170 TK |",
menu_string[24].string_from_menu);
   printf("\n Sausage, Cheese)\t\t\t| Sausage,
Cheese)\n\t\t\t\t\t\t\t\n");
   if (menu_string[5].compare == 0)
       printf("%s\t\t| 320 TK |", menu_string[5].string_from_menu);
   else
       printf("%s(U/A)\t| 320 TK |", menu_string[5].string_from_menu);
   printf("\t");
   if (menu_string[14].compare == 0)
       printf("|%s\t\t| 320 TK |\n", menu_string[14].string_from_menu);
   else
       printf("|%s(U/A)\t\t| 320 TK |\n",
menu_string[14].string_from_menu);
   printf(" (2x Melted Cheese inside a \t\t\t| (2x Melted Cheese inside
a \n
       Double Sized Beef Patty & \t\t\t| Double Sized Chicken Patty &
\n Cheese outside)\t\t\t\t|
Cheese outside)\n\t\t\t\t\t|\n");
   if (menu_string[6].compare == 0)
       printf("%s\t\t| 380 TK |", menu_string[6].string_from_menu);
```

```
else
       printf("%s(U/A)\t\t| 380 TK |", menu_string[6].string_from_menu);
    printf("\t");
    if (menu_string[15].compare == 0)
       printf("|%s\t\t\t| 380 TK |\n", menu_string[15].string_from_menu);
    else
       printf("|%s(U/A)\t\t| 380 TK |\n",
menu_string[15].string_from_menu);
   printf(" (2x Beef Patty, 2x Cheese, \t\t\t| (2x Chicken Patty, 2x
Cheese, \n
            Beef Pastrami, Poached Egg)\t\t\t| Chicken Pastrami,
Poached Egg)\n\t\t\t\t\t\t\t\n");
    if (menu_string[7].compare == 0)
       printf("%s\t\t\t| 430 TK |", menu_string[7].string_from_menu);
    else
       printf("%s(U/A)\t\t| 430 TK |", menu_string[7].string_from_menu);
   printf("\t");
    if (menu_string[16].compare == 0)
       printf("|%s\t\t\t| 430 TK |\n", menu_string[16].string_from_menu);
    else
       printf("|%s(U/A)\t\t| 430 TK |\n",
menu_string[16].string_from_menu);
    printf(" (2x Beef Patty, 2x Cheese, \t\t\t| (2x Chicken Patty, 2x
Cheese, \n
            Double Beef Bacon, BBQ Sauce)\t\t| Double Beef Bacon, BBQ
Sauce)\n\t\t\t\t\t\t\t\n");
    if (menu_string[8].compare == 0)
       printf("%s\t\t| 680 TK |", menu_string[8].string_from_menu);
    else
       printf("%s(U/A)\t\t| 680 TK |", menu_string[8].string_from_menu);
   printf("\t");
    if (menu_string[17].compare == 0)
       printf("|%s\t\t| 680 TK |", menu_string[17].string_from_menu);
    else
```

```
printf("|%s(U/A)\t\t\t| 680 TK |",
menu_string[17].string_from_menu);

printf("\t|* If any food item is unavailable, it will show up\n");

printf(" (2x Giant Beef Patty, Smoked \t\t| (2x Giant Chicken Patty,
Smoked\t\t\t|\tnext to the food item (U/A)\n Chicken, Chicken Ham, 3x
\t\t\t| Chicken, Chicken Ham, 3x
\t\t\t\t\t\n Cheese)\t\t\t\t\t\t\t| Cheese)\t\t\t\t\t\t\t\t\t\f\ Service
Charge(10%) and VAT(15%) excluded\n\n");
 fclose(ptr1);
}
```

Sample Output

1. If all the foods are available:

```
Welcome to "CHILLS RESTAURANT"
                           *** Press 'Y' to display the menu to progress further and press 'N' to close the application. ***
Press (Y/N): Y
                                                                           CHICKEN BURGERS
1. BEEF BURGER | 180 TK |
(Beef Patty, Special Sauce)
                                                       | 10. CHICKEN BURGER
| (Chicken Patty, Special Sauce)
                                                                                                    | 180 TK |
                                                                                                                                                                     | 120 TK |
                                                                                                                        20. CHICKEN FINGERS (10 PCS)
                                                                                                                                                                     | 130 TK |
2. BEEF BURGER WITH CHEESE
(Beef Patty, Cheese, Special
Sauce)
                                                       |
|11. CHICKEN BURGER WITH CHEESE
| (Chicken Patty, Cheese, Special
| Sauce)
                                                                                                    | 200 TK |
                                                                                                                        21. NAGA DRUMS (3 PCS)
                                                                                                                                                                     | 180 TK |
3. BEEF SMOKY BBQ CHEESE
(BBQ Sauce Cooked Beef Patty,
Cheese)
                                                       |
| 12. CHICKEN SMOKY BBQ CHEESE
| (BBQ Sauce Cooked Beef Patty,
| Cheese)
                                                                                                    | 225 TK |
                                                                                                                        22. COLD COFFEE
                                                                                                                                                                     | 140 TK |
4. BEEF WITH BACON
(Beef Patty, Beef Bacon)
                                                       |
|13. CHICKEN WITH BACON
| (Chicken Patty, Beef Bacon)
                                                                                                                        23. MUNCH
                                                                                                    | 230 TK |
                                                                                                                                                                     | 140 TK |
                                                                                                                                                                     | 160 TK |
                                                                                                                        24. OREO
5. BEEF WITH SAUSAGE
(Beef Patty, 2x Chicken
Sausage, Cheese)
                                                       |
| 14. CHICKEN WITH SAUSAGE
| (Chicken Patty, 2x Chicken
| Sausage, Cheese)
                                    | 250 TK |
                                                                                                    | 250 TK |
                                                                                                                        25. NUTELLA
                                                                                                                                                                     | 170 TK |
6. BEEF CHEESE BLAST
(2x Melted Cheese inside a
Double Sized Beef Patty &
Cheese outside)
                                                       | 15. CHICKEN CHEESE BLAST
| (2x Melted Cheese inside a
| Double Sized Chicken Patty &
| Cheese outside)
                                    | 320 TK |
                                                                                                    | 320 TK |
```

```
BEEF SIGNATURE
(2x Beef Patty, 2x Cheese,
Beef Pastrami, Poached Egg)
                                                                     16. CHICKEN SIGNATURE
(2x Chicken Patty, 2x Cheese,
Chicken Pastrami, Poached Egg)
                                                                                                                            | 380 TK |
                                         | 380 TK |
   GIGANTO BEEF
(2x Beef Patty, 2x Cheese,
Double Beef Bacon,BBQ Sauce)
                                                                     17. GIGANTO CHICKEN
(2x Chicken Patty, 2x Cheese,
Double Beef Bacon,BBQ Sauce)
                                         | 430 TK |
                                                                                                                            | 430 TK |
   BINGE BEEF | 680 TK |
(2x Giant Beef Patty, Smoked
Chicken, Chicken Ham, 3x
Cheese)
                                                                     |
|18. BINGE CHICKEN
| (2x Giant Chicken Patty, Smoked
| Chicken, Chicken Ham, 3x
| Cheese)
                                                                                                                                                  |* If any food item is unavailable, it will show up next to the food item (U/A)
                                                                                                                            | 680 TK |
                                                                                                                                                  * Service Charge(10%) and VAT(15%) excluded
                                  **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. ****
Please enter the customer name: Redown Ahmed
Press (Y/N): y
Please enter the item number: 1
Please enter the quantity: 3
Press (Y/N): a
*** Invalid keyword! Please press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. ***
Press (Y/N):
Please enter the item number: 29
*** Invalid menu number! Please enter valid menu number. ***
 Please enter the item number: 25 Please enter the quantity: 0 *** Invalid quantity! Please enter quantity greater than 0. ***
 Please enter the quantity: -1 *** Invalid quantity! Please enter quantity greater than 0. ***
 Please enter the quantity:
 Press (Y/N): n
                                                                                          *** Receipt is given below: ***
                                                                                                    Chills Restaurant
                                                                   Sun May 08 22:11:28 2022
Customer Name: Redown Ahmed
                                                                   Items
                                                                                                               Qty
                                                                                                                                      Total
                                                                   1. BEEF BURGER
25. NUTELLA
                                                                                                                                      540.00
510.00
                                                                                                                                      1050.00
                                                                   Service Charge (10%)
Value Added Tax (15%)
                                                                   Grand Total
                                                                                                                                      1312.50
                                                                                         *** Have a nice day! ***
                                                                                         (Press any button to exit)
```

In "Food Availibility.txt":

Food Availibility.txt - Notepad

File Edit Format View Help

- 1. BEEF BURGER
- 2. BEEF BURGER WITH CHEESE
- 3. BEEF SMOKY BBQ CHEESE
- 4. BEEF WITH BACON
- 5. BEEF WITH SAUSAGE
- 6. BEEF CHEESE BLAST
- 7. BEEF SIGNATURE
- 8. GIGANTO BEEF
- 9. BINGE BEEF
- 10. CHICKEN BURGER
- 11. CHICKEN BURGER WITH CHEESE
- 12. CHICKEN SMOKY BBQ CHEESE
- 13. CHICKEN WITH BACON
- 14. CHICKEN WITH SAUSAGE
- 15. CHICKEN CHEESE BLAST
- 16. CHICKEN SIGNATURE
- 17. GIGANTO CHICKEN
- 18. BINGE CHICKEN
- 19. FRENCH FRIES
- 20. CHICKEN FINGERS (10 PCS)
- 21. NAGA DRUMS (3 PCS)
- 22. COLD COFFEE
- 23. MUNCH
- 24. OREO
- 25. NUTELLA

2. If foods are unavailable:

* Welcome to "CHILLS RESTAURANT" *						
*** Press 'Y' to display the menu to progress further and press 'N' to close the application. ***						
Press (Y/N): y	*********	******	**********	******		
*	CHILLS RESTAU			*		
BEEF BURGERS	CHICKEN BURGERS	*****	SIDES	******		
1. BEEF BURGER(U/A) 180 TK (Beef Patty, Special Sauce)	10. CHICKEN BURGER (Chicken Patty, Special Sauce)	180 TK	19. FRENCH FRIES	120 TK		
2. BEEF BURGER WITH CHEESE 200 TK (Beef Patty, Cheese, Special Sauce)	 11. CHICKEN BURGER WITH CHEESE (Chicken Patty, Cheese, Special Sauce)	200 TK	20. CHICKEN FINGERS (10 PCS)	130 TK 180 TK		
3. BEEF SMOKY BBQ CHEESE 225 TK 12. CHICKEN SMOKY BBQ CHEESE (BBO Sauce Cooked Beef Patty, (BBO Sauce Cooked Beef Patty,		225 TK	SHAKES 			
Cheese)	Cheese)		22. COLD COFFEE	140 TK		
4. BEEF WITH BACON 230 TK (Beef Patty, Beef Bacon)	 13. CHICKEN WITH BACON (Chicken Patty, Beef Bacon)	230 TK	23. MUNCH	140 TK		
5. BEEF WITH SAUSAGE 250 TK		250 TK	24. OREO	160 TK		
			25. NUTELLA	170 TK		
6. BEEF CHEESE BLAST 320 TK (2x Melted Cheese inside a Double Sized Beef Patty & Cheese outside)	15. CHICKEN CHEESE BLAST (2x Melted Cheese inside a Double Sized Chicken Patty & Cheese outside)	320 TK				

```
BEEF SIGNATURE
(2x Beef Patty, 2x Cheese,
Beef Pastrami, Poached Egg)
                                                              16. CHICKEN SIGNATURE
(2x Chicken Patty, 2x Cheese,
Chicken Pastrami, Poached Egg)
                                     | 380 TK |
                                                                                                                | 380 TK |
8. GIGANTO BEEF
(2x Beef Patty, 2x Cheese,
Double Beef Bacon,BBQ Sauce)
                                                              17. GIGANTO CHICKEN
(2x Chicken Patty, 2x Cheese,
Double Beef Bacon,BBQ Sauce)
                                      | 430 TK |
                                                                                                                | 430 TK |
                                                              |
|18. BINGE CHICKEN
| (2x Giant Chicken Patty, Smoked
| Chicken, Chicken Ham, 3x
| Cheese)
   BINGE BEEF | 680 TK |
(2x Giant Beef Patty, Smoked
Chicken, Chicken Ham, 3x
Cheese)
                                                                                                                                     | 680 TK |
                                                                                                                                     * Service Charge(10%) and VAT(15%) excluded
                               **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. ****
Please enter the customer name: Md. Yousuf Hozaifa
Press (Y/N): y
Please enter the item number: 1
*** This item is not available. Please select another available item from the menu. ***
Press (Y/N): 2
*** Invalid keyword! Please press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. ***
Press (Y/N): y
Please enter the item number: 2
Please enter the quantity: 6
Press (Y/N): n
                                                                                 *** Receipt is given below: ***
                                                                                           Chills Restaurant
                                                            Sun May 08 22:13:57 2022
Customer Name: Md. Yousuf Hozaifa
                                                             Items
                                                                                                                         Total
                                                                                                     Qty
                                                            2. BEEF BURGER WITH CHEESE
                                                                                                                         1200.00
                                                            Sub Total
                                                                                                                          1200.00
                                                            Service Charge (10%)
Value Added Tax (15%)
                                                                                                                          120.00
180.00
                                                            Grand Total
                                                                                                                          1500.00
                                                                                *** Have a nice day! ***
                                                                                (Press any button to exit)
```

In "Food Availibility.txt":

Food Availibility.txt - Notepad

File Edit Format View Help

- 1. BEEF BURGER(U/A)
- 2. BEEF BURGER WITH CHEESE
- BEEF SMOKY BBQ CHEESE
- 4. BEEF WITH BACON
- 5. BEEF WITH SAUSAGE
- 6. BEEF CHEESE BLAST
- 7. BEEF SIGNATURE
- 8. GIGANTO BEEF
- 9. BINGE BEEF
- 10. CHICKEN BURGER
- 11. CHICKEN BURGER WITH CHEESE
- 12. CHICKEN SMOKY BBQ CHEESE
- 13. CHICKEN WITH BACON
- 14. CHICKEN WITH SAUSAGE
- 15. CHICKEN CHEESE BLAST
- 16. CHICKEN SIGNATURE
- 17. GIGANTO CHICKEN
- 18. BINGE CHICKEN
- 19. FRENCH FRIES
- 20. CHICKEN FINGERS (10 PCS)
- 21. NAGA DRUMS (3 PCS)
- 22. COLD COFFEE
- 23. MUNCH
- 24. OREO
- 25. NUTELLA

3. Others:

* Welcome to "CHILLS RESTAURANT" * **** Press 'Y' to display the menu to progress further and press 'N' to close the application. *** Press (Y/N): y * CHILLS RESTAURANT * BEEF BURGERS CHICLS RESTAURANT * CHICKEN BURGERS SIDES SIDES CHICKEN BURGERS SIDES CHICKEN BURGERS CHICKEN BUR						
### Press 'Y' to display the menu to progress further and press 'N' to close the application. *** Press (Y/N): y	* Welcome to "CHILLS RESTAURANT" *					
Deep Burkers 188 TK 180						
Deep Burkers 188 TK 180 TK 180 TK 180 TK 180 TK 180 TK 180 TK 190 TK 180 TK 190 TK 180 TK 180 TK 190 TK 180 TK 180 TK 190						
BEEF BURGERS		*** Press 'Y' to displa	y the menu to progress further and pre	ss 'N' to close t	he application. ***	
SEEF BURGERS						
BEEF BUNGERS	************	*******			*************	**************************************
1. BEEF BURGER(U/A) (Beef Patty, Special Sauce) 180 TK 10. CHICKEN BURGER (Chicken Patty, Special Sauce) 180 TK 19. FRENCH FRIES 120 TK	********	*********	***********	********	***********	******
Chicken Patty, Special Sauce) Chicken Patty, Special Sauce) 28. EEF BURGER WITH CHESSE 290 TK Chicken Patty, Cheese, Special Sauce) 1. CHICKEN BURGER WITH CHESSE 290 TK 21. CHICKEN BURGER WITH CHESSE 290 TK 21. NAGA DRUMS (3 PCS) 180 TK 22. TK	BEEF BUI	RGERS	CHICKEN BURGERS		SIDES	
2. BEEF BURKER WITH CHESSE 280 TK 11. CHICKEN BURKER WITH CHESSE 280 TK 21. NAGA DRUMS (3 PCS) 180 TK Sauce) 180 TK Sauce) 180 TK Sauce) 180 TK Sauce) 180 TK 18	 BEEF BURGER(U/A) (Beef Patty, Special 			180 TK	i	
(Chicken Patty, Cheese, Special Sauce) Chicken Patty, Cheese, Special Sauce) 138 TK Sauce) Sauce) Sauce 121. MGA DRUMS (3 PCS) 138 TK Sauce) Sauce 122. CHICKEN SMOKY BBQ CHEESE (BBQ Sauce Cooked Beef Patty, Cheese) 122. CHICKEN SMOKY BBQ CHEESE (BBQ Sauce Cooked Beef Patty, Cheese) 122. CUL COFFEE 140 TK 1	2. BEEF BURGER WITH CHE	ESE 200 TK	 11. CHICKEN BURGER WITH CHEESE	200 TK	20. CHICKEN FINGERS (10 PCS)	130 TK
(BBQ Sauce Cooked Beef Patty, Cheese) Cheese Cheese Cheese) Cheese Chees	(Beef Patty, Cheese,		(Chicken Patty, Cheese, Special		21. NAGA DRUMS (3 PCS)	180 TK
(BBQ Sauce Cooked Beef Patty, Cheese) Cheese	3. BEEF SMOKY BBO CHEESI	E 225 TK	 12. CHICKEN SMOKY BBO CHEESE	225 TK	SHAKES	
(Beef Patty, Busef Bacon) 5. BEEF WITH SAUSAGE 250 TK 14. CHICKEN WITH SAUSAGE 250 TK 21. OREO 160 TK 6. BEEF CHEESE BLAST 320 TK 15. CHICKEN Chicken Patty, 2x Chicken Patty & Cheese on United Chicken Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 9. BINGE BEEF 430 TK 130 TK 130 TK 130 TK 140 TK 140 TK 150 TK	(BBQ Sauce Cooked Be		(BBQ Sauce Cooked Beef Patty,		22. COLD COFFEE	140 TK
(Beef Patty, Busef Bacon) 5. BEEF WITH SAUSAGE 250 TK 14. CHICKEN WITH SAUSAGE 250 TK 22. NUTELLA 170 TK 23. NUTELLA 170 TK 23. NUTELLA 170 TK 25. NUTELLA 170 T	4. BEEF WITH BACON	230 TK	 13. CHICKEN WITH BACON	230 TK	23. MUNCH	140 TK
5. BEFF WITH SAUSAGE (Beef Patty, 2x Chicken Sausage, Cheese) 6. BEFF CHESS BLAST (2x Melted Cheese inside a Double Sized Beef Patty & Cheese outside) 7. Can beef Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 7. BINGE BEEF (2x Seef Patty, 5x		con)	(Chicken Patty, Beef Bacon)		I OPEO	1 160 TV 1
Sausage, Cheese) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside a Double Beef Bacon, Bay Sauce) Sausage, Cheese inside A Sauce, Double Beef Bacon, Bay Sauce) Sausage, Cheese, Double Beef Bacon, Bay Sauce) Sausage, Cheese inside Sauce, Double Beef Bac				250 TK		
(2x Melted Cheese inside a Double Sized Beef Patty & Cheese outside) 8. GIGANTO BEEF 430 TK 17. GIGANTO CHICKEN 430 TK (2x Beef Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 0. Double Beef Bacon, BBQ Sauce) 680 TK 18. BINGE CHICKEN 680 TK 18. BINGE CHICKEN 680 TK (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken, Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 680 TK (2x Giant Chicken Patty, Smoked Chicken, Chicken Patty, Smoked Chicken, Chicken Patty, Smoked Chicken Patty, Smoked Chicken, Chicken Patty, Smoked Chicken, Chicken Patty, Smoked Chicken Patty, Smoked Chicken Patty, Smoked Chicken Patty, Smoked Chicken, Chicken Patty, Smoked Chicken Pa					25. NUTELLA	170 TK
Double Sized Beef Patty & Cheese outside) 8. GIGANTO BEEF 438 TK 17. GIGANTO CHICKEN 430 TK (2x Chicken Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 18. BINGE CHICKEN (2x Chicken Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 18. BINGE CHICKEN (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) (2x Giant Chicken Ham, 3x Chee				320 TK		
Cheese outside) Cheese outside) Cheese outside) Cheese outside) Cheese outside) 17. GIGANTO CHICKEN (2x Beef Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) Pouble Beef Bacon, BBQ Sauce) Self BEEF (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) Cheese) Cheese Outside) 18. BINGE CHICKEN (2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x Cheese) Cheese) **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. **** Please enter the customer name: Mahin Hasan **** Have a nice day! *** **** Have a nice day! ***						
(2x Beef Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 9. BINGE BEEF		,				
(2x Beef Patty, 2x Cheese, Double Beef Bacon, BBQ Sauce) 9. BINGE BEEF 680 TK 18. BINGE CHICKEN 680 TK * If any food item is unavailable, it will show up (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) 10. Cheese Chicken Ham, 3x Cheese Chicken Ham, 3x Cheese Chicken, Chicken Ham, 3x Cheese Chicken Ham, 3x Che	8. GIGANTO BEEF	430 TK	17. GIGANTO CHICKEN	430 TK		
9. BINGE BEEF (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) (2x Giant Beef Patty, Smoked Chicken, Chicken Ham, 3x Cheese) **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. **** Please enter the customer name: Mahin Hasan Press (Y/N): N **** Have a nice day! ***	(2x Beef Patty, 2x C	heese,	(2x Chicken Patty, 2x Cheese,			
(2x Giant Beef Patty, Smoked (2x Giant Chicken Patty, Smoked next to the food item (U/A) Chicken, Chicken Ham, 3x Chicken Ham, 3x * Service Charge(10%) and VAT(15%) excluded * **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. **** Please enter the customer name: Mahin Hasan Press (Y/N): N **** Have a nice day! ****				I con Tu I	le TC Cd :b ::1-b1	- 44
Cheese) Cheese) * Service Charge(10%) and VAT(15%) excluded **** Press 'Y' to continue ordering items from the menu and press 'N' to finish ordering from the menu. **** Please enter the customer name: Mahin Hasan Press (Y/N): N *** Have a nice day! ***	(2x Giant Beef Patty	, Smoked	(2x Giant Chicken Patty, Smoked Chicken, Chicken Ham, 3x	680 IK		
Please enter the customer name: Mahin Hasan Press (Y/N): N *** Have a nice day! ***		m, 3A			* Service Charge(10%) and VAT(15	%) excluded
Please enter the customer name: Mahin Hasan Press (Y/N): N *** Have a nice day! ***						
Press (Y/N): N		**** Press 'Y' to conti	nue ordering items from the menu and p	ress 'N' to finis	h ordering from the menu. ****	
*** Have a nice day! ***	Please enter the custom	er name: Mahin Hasan				
*** Have a nice day! ***						
	Press (Y/N): N					
(Press any button to exit)	*** Have a nice day! ***					
	(Press any button to exit)					

```
*** Welcome to "CHILLS RESTAURANT"

*** Press 'Y' to display the menu to progress further and press 'N' to close the application. ***

Press (Y/N): 1

*** Invalid keyword! Press 'Y' to display the menu to progress further and press 'N' to close the application. ***

Press (Y/N): N

*** Have a nice day! ***

(Press any button to exit)
```

Chapter - 3 Database Development

The maintenance of the records is made efficient as all the records are stored in the Access Database, through which data can be retrieved easily. The navigation control is provided in all the forms to navigate through a large number of records. If the number of records is very large, then the user must just type in the search string and get the results immediately.

As a result, the owner of the restaurant monitors all the processes through which orders are being placed.

Here we are showing our stored receipt in database:

Chills Restaurant

Sun May 08 22:11:28 2022 Customer Name: Redown Ahmed

Items	Qty	Total
1. BEEF BURGER	3	540.00
25. NUTELLA	3	510.00
Sub Total		1050.00
Service Charge (10%)		105.00
Value Added Tax (15%)		157.50
Grand Total		1312.50

Chills Restaurant

Sun May 08 22:13:57 2022

Customer Name: Md. Yousuf Hozaifa

Items	Qty	Total
2. BEEF BURGER WITH CHEESE	6	1200.00
Sub Total		1200.00
Service Charge (10%) Value Added Tax (15%)		120.00 180.00
Grand Total		1500.00

Chapter – 4 Conclusion

Finally, in the restaurant billing system source code, the outcome of all the time and hard work is here. This application is mechanized to decrease human mistakes and boost productivity. The main goal of this project is to require less human effort. This system takes the necessary choices from the customer according to the various filters like price, category of the food, and popularity. Then he can place the order accordingly, and then the system calculates the total of the order with taxes and service charges, and then it can dispatch the bill that is handed over to the customer.

Hence, all the procedures are flawless and fully fulfill the requirements.