MADHAV INSTITUTE OF TECHNOLOGY &SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Based Mini Project Report

on

Grocery store billing system in C

Submitted
By:

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Mentor:

Dr. Anshu Chaturvedi, Professor

Submitted to:
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
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MADHAV INSTITUTE OF TECHNOLOGY &SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Mohit Gupta** (0901CA211029) has submitted the project report titled **Grocery Store Billing System** under the mentorship of **Dr. Anshu Chaturvedi (Professor),** as the skill based mini project in 1st year of Master of Computer Application of Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

Dr. Anshu Chaturvedi
Professor
Computer Science and Engineering

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DECLARATION

I hereby declare that the work being presented in this project report, for the fulfilment of partial requirement for the skill based mini project in 1st of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Anshu Chaturvedi**, (**professor),** MITS Gwalior

I declare that I have not submitted the matter embodied in this report anywhere else.

Mohit Gupta
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1 Year,
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I would sincerely like to thank my department, **Department of Computer Science and Engineering, for allowing** me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved. I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Anshu Chaturvedi**, (professor)**,** computer science and engineering, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.

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1 Year,
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ABSTRACT

The purpose of Grocery Store Billing System is to automate the existing manual system by the help of computerized equipment'sand full -fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Grocery Store Billing System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant while being able to reach the information

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INTRODUCTION

The "Grocery Store Bling System has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner

OBJECTIVE

The main objective of the Project on Grocery Store Billing System is to manage the details of Grocery, Category, Sells, Payment, Orders. It manages all the information about Grocery, Stock, Orders, Grocery. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Grocery, Category, Stock, Sells. It tracks all the details about the Sells, Payment, Orders.

CODE

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
char *productName[] = {"sugar", "milk", "vegetable masala", "washing powder", "salt",
"poha", "oil", "tooth paste", "hair conditionar", "wheat flour", "red chilli", "maida", "coffee",
"tea", "butter", "milk powder", "turmeric powder", "hair oil", "ghee", "face powder"};
char product_name[19][20];
int product_quantity[19];
int count1 = 0, total_bill = 0, total_bill1 = 0, discount;
int sugar_p = 50, milk_p = 50, vegetable_masala_p = 50, wahing_powder_p = 100, salt_p = 20,
poha_p = 50, oil_p = 200, tooth_paste_p = 40, hair_conditionar_p = 120, wheat_flour_p = 50,
red_chilli_p = 40, maida_p = 45, coffee_p = 200, tea_p = 100, butter_p = 100, milk_powder_p
= 150, turnmeric_powder_p = 200, hair_oil_p = 60, ghee_p = 300, face_powder_p = 70;
void generate_bill()
{
   printf("\n\t   **** NISHI GROCERY STORE BILL ****\n");
   printf("|.....\n");
   printf("|  Product\t\tQuantity\t\tPrice  |\n");
   printf("|.....\n");
   for (int i = 0; i < count1; i++)
   {
      if (!strcmp("sugar", product_name[i]))
      {
         printf("| %s          \t%dkg     \t\t%d  \n", product_name[i], product_quantity[i],
sugar_p*product_quantity[i]);
         printf("|.....\n");
      }
      else if (!strcmp("milk", product_name[i]))
      {
         printf("| %s          \t%dpac     \t\t%d  \n", product_name[i], product_quantity[i],
milk_p*product_quantity[i]);
         printf("|.....\n");
      }
      else if (!strcmp("vegetable masala", product_name[i]))
      {
         printf("| %s     \t%dpac     \t\t%d  \n", product_name[i], product_quantity[i],
vegetable_masala_p*product_quantity[i]);
         printf("|.....\n");
      }
      else if (!strcmp("washing powder", product_name[i]))
      {
         printf("| %s     \t%dkg     \t\t%d  \n", product_name[i], product_quantity[i],
wahing_powder_p*product_quantity[i]);
         printf("|.....\n");
      }
      else if (!strcmp("salt", product_name[i]))
      {
```

```
        printf("| %s          \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],
salt_p*product_quantity[i]);
        printf("|.....\n");

    }
    else if (!strcmp("poha", product_name[i]))
    {

        printf("| %s          \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],

poha_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("oil", product_name[i]))
    {
        printf("| %s              \t%dltr     \t\t%d \n", product_name[i], product_quantity[i],
oil_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("tooth paste", product_name[i]))
    {
        printf("| %s         \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
tooth_paste_p*product_quantity[i]);
        printf("|-----\n");
    }
    else if (!strcmp("hair conditionar", product_name[i]))
    {
        printf("| %s   \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
hair_conditionar_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("wheat flour", product_name[i]))
    {
        printf("| %s      \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],
wheat_flour_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("red chilli", product_name[i]))
    {
        printf("| %s         \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
red_chilli_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("maida", product_name[i]))
    {
        printf("| %s             \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],
maida_p*product_quantity[i]);
        printf("|.....\n");
    }
    else if (!strcmp("coffee", product_name[i]))
    {
```

```
        printf("| %s        \t%dpac     \t\t%d  \n", product_name[i], product_quantity[i],

coffee_p*product_quantity[i]);
        printf("|.....\n");
      }
      else if (!strcmp("tea", product_name[i]))
      {
        printf("| %s          \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
tea_p*product_quantity[i]);
        printf("|.....\n");
      }
      else if (!strcmp("butter", product_name[i]))
      {
        printf("| %s            \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
butter_p*product_quantity[i]);
        printf("|.....\n");
      }


      else if (!strcmp("milk powder", product_name[i]))
      {
        printf("| %s        \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],

milk_powder_p*product_quantity[i]);

printf("|.....\n");
      }
      else if (!strcmp("turmeric powder", product_name[i]))
      {
        printf("| %s     \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],
turnmeric_powder_p*product_quantity[i]);
        printf("|.....\n");
      }
      else if (!strcmp("hair oil", product_name[i]))
      {
        printf("| %s          \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
hair_oil_p*product_quantity[i]);
        printf("|.....\n");
      }
      else if (!strcmp("ghee", product_name[i]))
      {
        printf("| %s            \t%dkg    \t\t%d \n", product_name[i], product_quantity[i],
ghee_p*product_quantity[i]);
        printf("|.....\n");
      }
      else if (!strcmp("face powder", product_name[i]))
      {
        printf("| %s        \t%dpac     \t\t%d \n", product_name[i], product_quantity[i],
face_powder_p*product_quantity[i]);
        printf("|.....\n");
      }
   }
```

```
    printf("| Total product %d \t\tTotal amount    %d\n", count1, total_bill1);
    printf("|.....\n");
    printf("|               \t\tDiscount       %d\n", discount);
    printf("|.....\n");

    printf("|               \t\tPayable ammount %d\n", total_bill);
    printf("|.....\n");
}
void calculate_bill()
{
    char choose;
    for (int i = 0; i < count1; i++)
    {
        if (!strcmp("sugar", product_name[i]))
        {
            total_bill += sugar_p * product_quantity[i];
        }
        else if (!strcmp("milk", product_name[i]))
        {
            total_bill += milk_p * product_quantity[i];
        }
        else if (!strcmp("vegetable masala", product_name[i]))
        {
            total_bill += vegetable_masala_p * product_quantity[i];
        }
        else if (!strcmp("washing powder", product_name[i]))
        {


total_bill += wahing_powder_p * product_quantity[i];

        }
        else if (!strcmp("salt", product_name[i]))
        {
            total_bill += salt_p * product_quantity[i];
        }
        else if (!strcmp("poha", product_name[i]))
        {

 total_bill += poha_p * product_quantity[i];
        }
        else if (!strcmp("oil", product_name[i]))
        {
            total_bill += oil_p * product_quantity[i];
        }
        else if (!strcmp("tooth paste", product_name[i]))
        {
            total_bill += tooth_paste_p * product_quantity[i];
        }
        else if (!strcmp("hair conditionar", product_name[i]))
        {
            total_bill += hair_conditionar_p * product_quantity[i];
        }
```

```
    else if (!strcmp("wheat flour", product_name[i]))
    {
        total_bill += wheat_flour_p * product_quantity[i];
    }
    else if (!strcmp("red chilli", product_name[i]))


    {
        total_bill += red_chilli_p * product_quantity[i];
    }
    else if (!strcmp("maida", product_name[i]))
    {
        total_bill += maida_p * product_quantity[i];
    }
    else if (!strcmp("coffee", product_name[i]))
    {
        total_bill += coffee_p * product_quantity[i];
    }
    else if (!strcmp("tea", product_name[i]))
    {
        total_bill += tea_p * product_quantity[i];
    }
    else if (!strcmp("butter", product_name[i]))
    {
        total_bill += butter_p * product_quantity[i];
    }
    else if (!strcmp("milk powder", product_name[i]))
    {
        total_bill += milk_powder_p * product_quantity[i];
    }
    else if (!strcmp("turmeric powder", product_name[i]))
    {
        total_bill += turnmeric_powder_p * product_quantity[i];
    }
    else if (!strcmp("hair oil", product_name[i]))
    {
        total_bill += hair_oil_p * product_quantity[i];
    }

    else if (!strcmp("ghee", product_name[i]))
    {
        total_bill += ghee_p * product_quantity[i];
    }
    else if (!strcmp("face powder", product_name[i]))
    {
        total_bill += face_powder_p * product_quantity[i];
    }

}
total_bill1 = total_bill;
if (total_bill >= 15000)
```

```
  {
      discount = (15 * total_bill) / 100;
      total_bill = total_bill - discount;
    }
    else if (total_bill >= 10000 && total_bill < 15000)
    {
      discount = (10 * total_bill) / 100;
      total_bill = total_bill - discount;
    }


    else if (total_bill >= 5000 && total_bill < 10000)

    {
      discount = (5 * total_bill) / 100;
      total_bill = total_bill - discount;
    }
repeate:
    printf("\nIf you want to generate your bill then press 'Y' otherwise 'N': ");
    fflush(stdin);
    scanf("%c", &choose);
    if (choose == 'Y' || choose == 'y')
    {
      generate_bill();
    }
    else if (choose == 'N' || choose == 'n')
    {
      exit(0);
    }
    else
    {
      printf("Invalid character tyr again\n");
      goto repeate;
    }
}
void main()
{
    char ch, temp_str[20];
    int check,count=0;
    printf("\n\n ***WELCOME TO AKSAHY GROCERY STORE***\n\n");
    printf(" Here are our store discount rates\n");
    printf("****************************************\n");
    printf("| less than 5000 buy 0%% discount      |\n");
    printf("|--------------------------------------|\n");
    printf("| greater than 5000 buy 5%% discount  |\n");
    printf("|--------------------------------------|\n");
    printf("| greater than 10000 buy 10%% discount |\n");
    printf("|--------------------------------------|\n");
    printf("| greater than 15000 buy 15%% discount |\n");
    printf("****************************************\n\n");
```

```
  printf("Please enter all product bought by you\n");
  for (int i = 0; i < 20; i++)
  {

  repeate1:
     count=0;
     printf("Enter product name : ");
     fflush(stdin);

gets(temp_str);
     for (int j = 0; j < 20; j++)
     {
        check = strcmp(temp_str, productName[j]);
        if (check == 0)

        {


 strcpy(product_name[count1], temp_str);
        }
        else
        {
           count++;
           if (count == 20)
           {
              printf("Invalid product name\n");
              goto repeate1;
           }
        }
     }
  repeate2:
     printf("Enter quantity : ");
     scanf("%d", &product_quantity[count1]);
     if (product_quantity[count1] < 1)
     {
        printf("Invalid quantity try again\n");
        goto repeate2;
     }
     count1++;
  repeate:
     printf("If you have entered all product then Press 'Y' otherwise 'N' :");
     fflush(stdin);
     scanf("%c", &ch);
     if (ch == 'Y' || ch == 'y')
     {
        calculate_bill();
        exit(0);
     }else if (ch=='N'||ch=='n')
     {
        printf("");
     }
     else
     {
```

```
            printf("Invalid press try again\n");
            goto repeate;
        }
    }
    printf("\nWe have only 20 product\n\n");
    calculate_bill();
}
```

INPUT / OUTPUT

main.c

Run

Output

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
char *productName[] = {"sugar", "milk", "vegetable masala", "washing powder",
    "salt", "poha", "oil", "tooth paste", "hair conditionar", "wheat flour",
    "red chilli", "maida", "coffee", "tea", "butter", "milk powder", "turmeric
    powder", "hair oil", "ghee", "face powder"};
char product_name[19][20];
int product_quantity[19];
int count1 = 0, total_bill = 0, total_bill1 = 0, discount;
int sugar_p = 50, milk_p = 50, vegetable_masala_p = 50, wahing_powder_p = 100,
    salt_p = 20, poha_p = 50, oil_p = 200, tooth_paste_p = 40,
    hair_conditionar_p = 120, wheat_flour_p = 50, red_chilli_p = 40, maida_p =
    45, coffee_p = 200, tea_p = 100, butter_p = 100, milk_powder_p = 150,
    turnmeric_powder_p = 200, hair_oil_p = 60, ghee_p = 300, face_powder_p =
    70;
void generate_bill()
{
    printf("\n\t    **** AKSHAY GROCERY STORE BILL ****\n");
    printf("|-----------------------------------------------------------\n");
    printf("|  Product\t\tQuantity\t\tPrice   |\n");
    printf("|-----------------------------------------------------------\n");
    for (int i = 0; i < count1; i++)
    {
        if (!strcmp("sugar", product_name[i]))
        {
            printf("|  %s           \t%dkg     \t\t%d  \n", product_name[i],
```

```
/tmp/bXZq4D5FdS.o
***WELCOME TO AKSAHY GROCERY STORE***

   Here are our store discount rates
****************************************
| less than 5000 buy 0% discount      |
|--------------------------------------|
| greater than 5000 buy 5% discount   |
|--------------------------------------|
| greater than 10000 buy 10% discount |
|--------------------------------------|
| greater than 15000 buy 15% discount |
****************************************

Please enter all product bought by you
Enter product name :
```

main.c

Run

Output

```
            product_quantity[i], coffee_p*product_quantity[i]);
        printf("|
            -----------------------------------------------------------\n");
    }
    else if (!strcmp("tea", product_name[i]))
    {
        printf("|  %s             \t%dpac      \t\t%d  \n",
            product_name[i], product_quantity[i], tea_p
            *product_quantity[i]);
        printf("|
            -----------------------------------------------------------\n");
    }
    else if (!strcmp("butter", product_name[i]))
    {
        printf("|  %s              \t%dpac      \t\t%d  \n",
            product_name[i], product_quantity[i], butter_p
            *product_quantity[i]);
        printf("|
            -----------------------------------------------------------\n");
    }
    else if (!strcmp("milk powder", product_name[i]))
    {
        printf("|  %s          \t%dpac      \t\t%d  \n", product_name[i],
            product_quantity[i], milk_powder_p*product_quantity[i]);
        printf("|
            -----------------------------------------------------------\n");
```

```
Enter quantity : 3
If you have entered all product then Press 'Y' otherwise 'N' :Invalid press try
    again
If you have entered all product then Press 'Y' otherwise 'N' :Y
If you want to generate your bill then press 'Y' otherwise 'N': Invalid characte
    tyr again

If you want to generate your bill then press 'Y' otherwise 'N': Y
**** AKSHAY GROCERY STORE BILL ****
|-----------------------------------------------------------
|  Product       Quantity        Price   |
|-----------------------------------------------------------
|  salt             1kg             20
|-----------------------------------------------------------
|  poha             1kg         50
|-----------------------------------------------------------
|  oil                 5ltr            1000
|-----------------------------------------------------------
|  maida                   3kg             135
|-----------------------------------------------------------
| Total product 4       Total amount    1205
|-----------------------------------------------------------
|                       Discount        0
|-----------------------------------------------------------
|                       Payable ammount 1205
|-----------------------------------------------------------
```

CONCLUSION

The project is complete and in last I have accomplished my all objectives.

And I have learned and practice all concepts that I want.

But in future I am going to add new things in this project for better improvements and try to learn more new things by applying in this project.

REFRENCES

During my learning phase for making this project I have used these references:

1. Let us C by Yashwant kanetkar
2. https://www.w3schools.com/cpp/default.asp