



Vending Machine

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DECLARATION

It is hereby declare that this project Vending Machine under the supervision of Dr. Md. Ashraf Ali, Associate professor, Departments of Software Engineering, Daffodil International University. It is also declare that neither this project nor any part of this has been submitted elsewhere for award of any degree.

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Recognition

I am grateful to The Almighty God for giving me the ability to complete this project. Today I am feeling proud for myself. Because, to be a student of **Daffodil International University**. And I am thankful to Daffodil International University for giving me a chance to prove myself by showing this project. I thank to our Department Head **Dr. Touhid Bhuiyan**.

I express my sincere thanks to my respected class teacher **Dr. Md. Ashraf Ali**, my project in charge, who guided me through the project also gave valuable suggestions and guidance for completing the project. He helped me to understand the intricate issues involved in project making besides effectively presenting it. These intricacies would have been lost otherwise. My project has been a success only because of his guidance.

My project vending machine is not a machine. It's a software in used to machine. this software will give you better experience. To build this software I have collected many types of information from different online and offline sources.

And also my friends support to build this software.

Discrete

The project vending machine is a automatic machine. The required control process is as follows: Insertion of a coin and pushing of buttons provides some drinks. Propose the input and output devices that use in the system to achieve the objective.

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INTRODUCTION

The project vending machine' is mainly based on customers. It is a very interesting machine to use. The customers will be very excited while using this software system will give their required result or not.. The first modern coin-operated vending machines were introduced in London, England in the early 1880s, dispensing postcards

1.1 Background

During the early 1880s, the first commercial coin-operated vending machines were introduced in London, England. Invented in 1883 by Percival Everitt, the machines were found at railway stations and post offices, as they were a convenient way to purchase envelopes, postcards, and notepaper. And in 1887, the first vending machine service, the Sweetmeat Automatic Delivery Company, was founded.

In 1888, the Thomas Adams Gum Company introduced the very first vending machines to the United States. The machines were installed on the elevated subway platforms in New York City and sold Tutti-Fruiti gum. In 1897, the Pulver Manufacturing Company added animated figures to its gum machines as an added attraction. The round, candy-coated gumball, and gumball vending machines were introduced in 1907

1.2 Problem statement

Problem statement At present, this project is not graphically improved. So it needs to be more improved. Moreover, while giving review to the machine project, we cannot see which person gave the highest review and what is its exact number

METHODOLOGY

ALL THE REQUIREMENTS

To fulfill the requirement of this project hardware and software both are used.

Hardware : Using laptop to complete this project. This requirement is using for run application and also install the software

Software : For this project a software name codeblocks is used heavily. To complete source code and get a satisfactory output of this project, this software is need indeed

How to work

In this new digital machine program customer or user can get product in this matching in few second Who and how many people use this machine Here, admin or user can unlimited uses this machine.

Exit

If anyone customers wants to no more shopping in this matching , they will be press the exit option.

Use Case Diagram of the Whole System

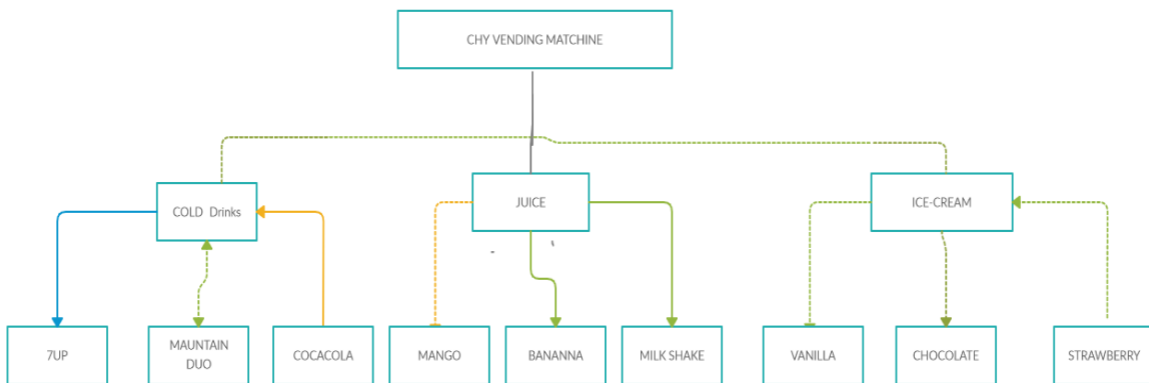


Fig no.1 Whole System

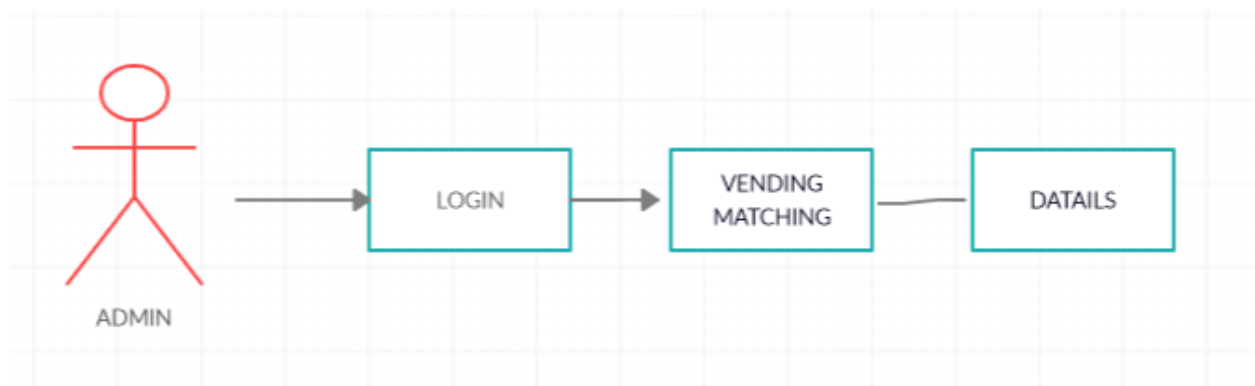


Fig no.2- CUSTOMER SYSTEM

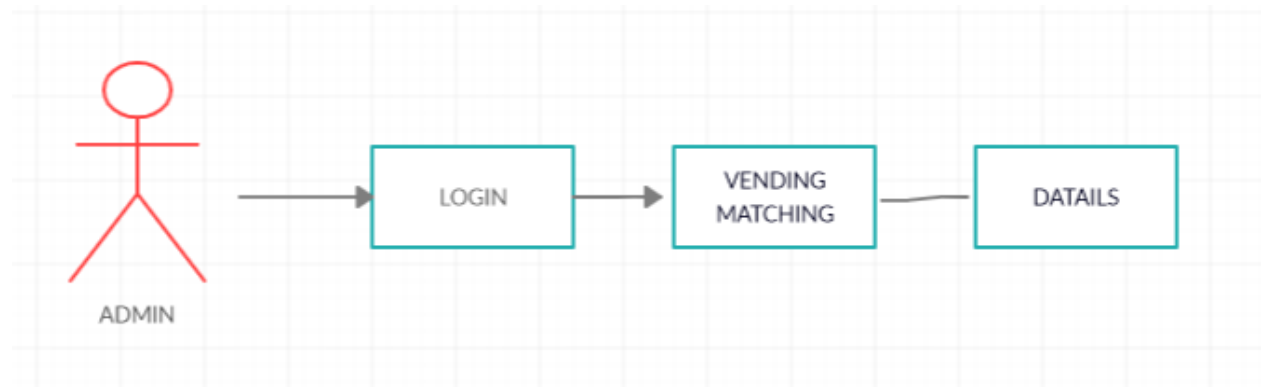


Fig no.3- admin SYSTEM

RESULT AND DISCUSSION

As a result, finally I got to apply all of this fetchers in my project. With this software, we can easily do something. And that are

Main menu

In the first page of the project, is the main menu page. From here, we can buy a product

There have some options in main menu page. Such as-

1 cold drings

2 juice

3 ice cream

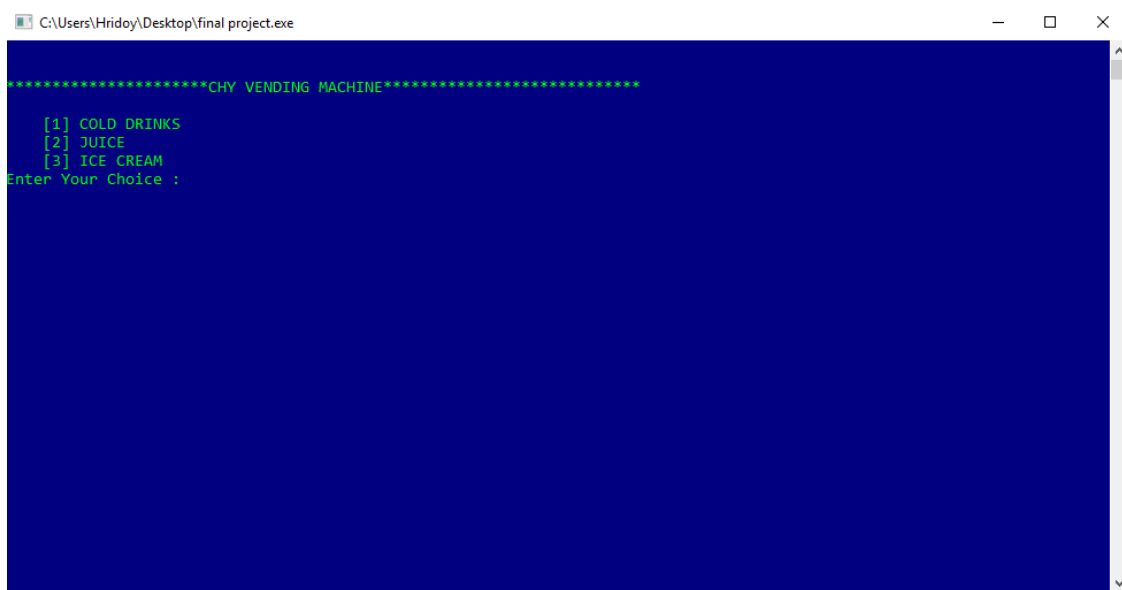


FIGURE 4

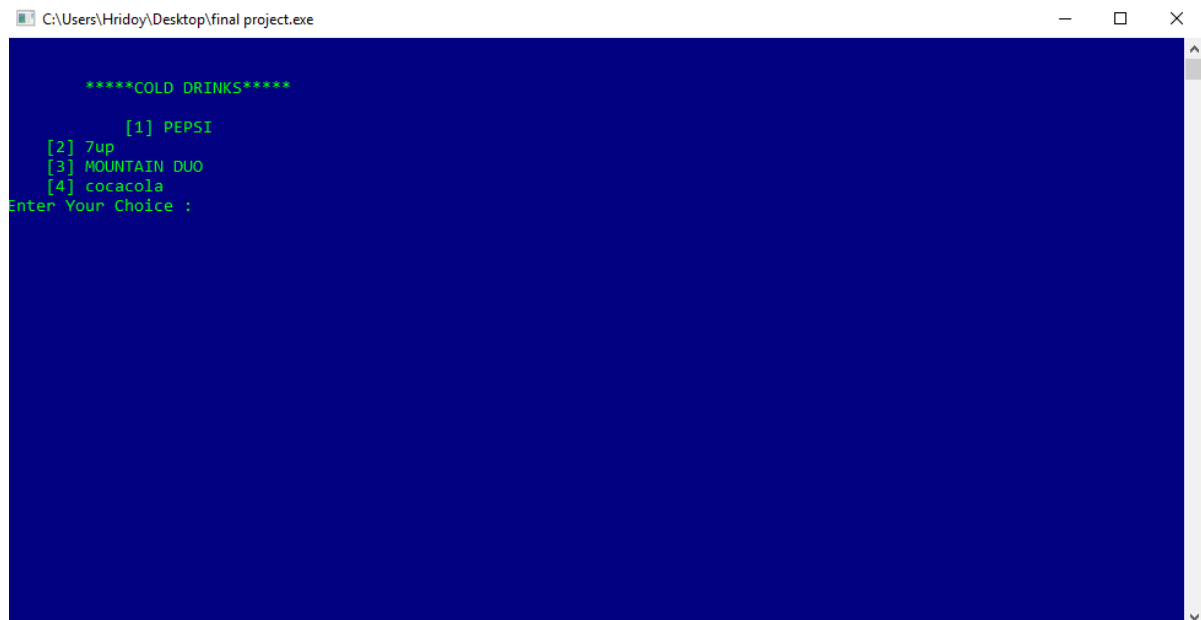
cold drinks has other 4 component

1 pepsi

2 Mounten DEO

3 7up

4 cocacola



```
C:\Users\Hridoy\Desktop\final project.exe

*****COLD DRINKS*****
[1] PEPSI
[2] 7up
[3] MOUNTAIN DUO
[4] cocacola
Enter Your Choice :
```

Figure 5

Juice has 3 other component

1 Mango juice

2 Bananna Juice

3 Milk shake

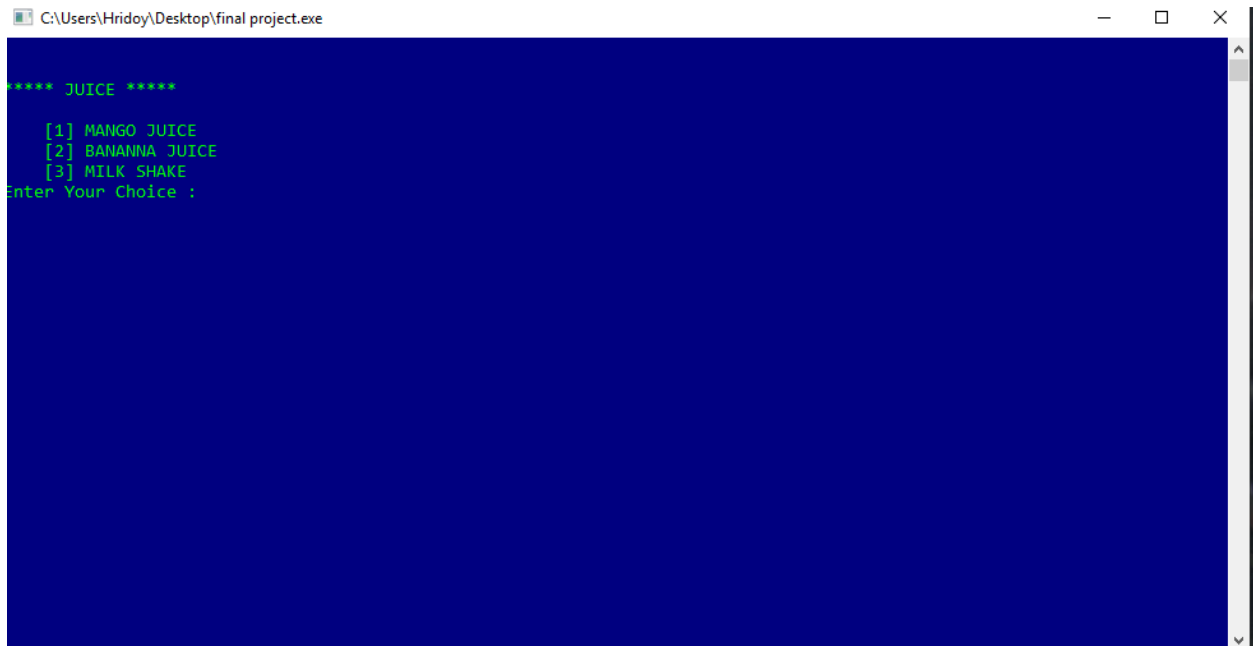


Figure 6

Ice cream has onother 3 component

1 VAnila

2chocolate

3 strawberry



```
C:\Users\Hridoy\Desktop\final project.exe

*****ICE CREAM*****
[1] VANILA
[2] CHOCOLATE
[3] STRAWBERRY
Enter Your Choice :
```

Figure 7

REFERENCES

1.Book:

The C Programming Language by Brian W. Kernighan and Dennis M. Ritchie.

2.Youtube

3.Google

4.Wikipedia

CODE

Admin login

```
char username[20];  
  
    char userpwd[8];  
  
    int i;  
  
printf("Enter your username : ");  
  
    scanf("%s",username);  
  
printf("Enter your password : ");  
  
scanf("%s",&userpwd);  
  
    printf("\n\nPress any key to continue");  
  
    getch();  
  
if(strcmp(username,"hridoy")==0 &&  
strcmp(userpwd,"hridoy")==0)  
{  
  
    printf("\n\nLogged In Successful");  
  
    system("color 1A");
```

```
    menu();  
}else  
{  
    printf("\n\nIncorrect username or password");  
}  
return;  
}
```


Main code

```
system("cls");

printf("\n\n*****CHY VENDING
MACHINE*****\n\n");

printf("  [1] COLD DRINKS\n");
printf("  [2] JUICE\n");
printf("  [3] ICE CREAM\n");
printf("Enter Your Choice :");

char option;

option = getche();

switch(option)
{
case '1':
    cold_drinks();
    break;
case '2':
    juice();
    break;
```

case '3':

ice_cream();

break;

default:

printf("\n\n\tINVALID INPUT");

menu();

}

}

void cold_drinks()

{

system("cls");

printf("\n\n\t*****COLD DRINKS*****\n\n\t");

printf(" [1] PEPSI\n");

printf(" [2] 7up\n");

printf(" [3] MOUNTAIN DUO\n");

printf(" [4] cocacola\n");

printf("Enter Your Choice :");

char option,q;

option = getche();

char sg[150];

```
int x,amt;
```

```
FILE *ea;
```

```
ea=fopen("colddrinks.txt","a");
```

```
char ch;
```

```
switch(option)
```

```
{
```

```
case '1':
```

```
printf("\n\tPrice of PEPSI is :tk 15");
```

```
fprintf(ea,"\n\tPrice of PEPSI is :tk 15");
```

```
printf("\n\tQuantity : 200ml");
```

```
fprintf(ea,"\n\tQuantity : 200ml");
```

```
printf("\n\tEnter Quantity:");
```

```
fprintf(ea,"\n\tEnter Quantity:");
```

```
scanf("%d",&x);
```

```
fprintf(ea,"%d",x);
```

```
x=x*15;

printf("\n\tYou Have to Pay tk %d",x);

fflush(ea);

fprintf(ea,"\n\tYou Have to Pay tk %d",x);

fflush(ea);

fprintf(ea,"\n\n");

fclose(ea);

billing(x);

break;

case '2':
```

```
printf("\n\tSale Report Cold Drinks\n");
```

```
FILE *ea;
```

```
ea=fopen("colddrinks.txt","r");
```

```
while(!feof(ea))
```

```
{
```

```
    fgets(sg,150,ea);
```

```
        puts(sg);
    }

    fclose(ea);

    break;

    /*printf("\n\tPrice of 7UP is :tk 18");
    printf("\n\tQuantity : 200ml");

    Up:

    printf("\n\tEnter Quantity:");
    scanf("%d",&x);

    printf("Confirm Your Order [Y/N]:");

    ch=getche();

    if(ch=='N' || ch=='n')

        goto Up;

    x=x*18;

    printf("\n\tYou Have to Pay tk %d",x);

    billing(x);

    break;*/

case '3':
```

```
printf("\n\tPrice of MOUNTAIN DEO is : tk 30");

printf("\n\tQuantity : 200ml");

mountain:

printf("\n\tEnter Quantity: ");

scanf("%d",&x);

printf("Confirm Your Order [Y/N]: ");

ch=getche();

if(ch=='N' || ch=='n')

    goto mountain;

    x=x*30;

printf("\n\tYou Have to Pay tk %d",x);

billing(x);

break;

case '4':

    printf("\n\tPrice of coca cola : tk 25");

    printf("\n\tQuantity : 200ml");

    coc:

    printf("\n\tEnter Quantity: ");

    scanf("%d",&x);

    printf("Confirm Your Order [Y/N]: ");
```

```

        ch=getche();

        if(ch=='N' || ch=='n')

            goto coc ;

        x=x*25;

        printf("\n\tYou Have to Pay tk %d",x);

        billing(x);

        break;

default:

        printf("\n\n\tINVALID INPUT");

        menu();

    }

}

void juice()

{

    system("cls");

    printf("\n\n***** JUICE *****\n\n");

    printf("    [1] MANGO JUICE\n");

    printf("    [2] BANANNA JUICE\n");

    printf("    [3] MILK SHAKE\n");

    printf("Enter Your Choice : ");

```

```
char option;

option = getche();

int x,amt;

char ch;

switch(option)

{

case '1':

    printf("\n\t MANGO JUICE :tk 60");

    printf("\n\t QUANTiTY: 400ml");

    Start:

    printf("\n\tEnter Quantity:");

    scanf("%d",&x);

    printf("Confirm Your Order [Y/N]:-");

    ch=getche();

    if(ch=='N' || ch=='n')

        goto Start ;

    x=x*60;

    printf("\n\tYou Have to Pay 60 %d",x);

    billing(x);

    break;
```


case '2':

```
printf("\n\t BANANNA JUICE :tk 70");
```

```
printf("\n\t QUANTiTY : 40ml");
```

OOOL:

```
printf("\n\tEnter Quantity: ");
```

```
scanf("%d",&x);
```

```
printf("Confirm Your Order [Y/N]: ");
```

```
ch=getche();
```

```
if(ch=='N' || ch=='n')
```

```
    goto OOOL ;
```

```
x=x*70;
```

```
printf("\n\tYou Have to Pay tk %d",x);
```

```
billing(x);
```

```
break;
```

case '3':

```
printf("\n\t MILK SHAKE : tk 120");
```

```
printf("\n\t QUANTiTY : 50ml");
```

COOPS:

```
printf("\n\tEnter Quantity: ");
```

```
scanf("%d",&x);
```

```

printf("Confirm Your Order [Y/N]:");

ch=getche();

if(ch=='N' || ch=='n')

    goto COOPS ;

x=x*120;

printf("\n\tYou Have to Pay tk %d",x);

billing(x);

break;

default:

    printf("\n\n\tINVALID INPUT");

    menu();

}

}

void ice_cream()

{

    system("cls");

    printf("\n\n*****ICE CREAM*****\n\n");

    printf("    [1] VANILA\n");

    printf("    [2] CHOCOLATE\n");

    printf("    [3] STRAWBERRY\n");

```

```
printf("Enter Your Choice : ");  
  
char option;  
  
option = getche();  
  
int x,amt;  
  
char ch;  
  
switch(option)  
{  
  
case '1':  
  
    printf("\n\t Price of VANILA is : tk 100 ");  
  
    printf("\n\tQuantity : 50ml");  
  
    vanila:  
  
    printf("\n\tEnter Quantity:");  
  
    scanf("%d",&x);  
  
    printf("Confirm Your Order [Y/N]: ");  
  
    ch=getche();  
  
    if(ch=='N' || ch=='n')  
  
        goto vanila;  
  
    x=x*100;  
  
    printf("\n\tYou Have to Pay tk %d",x);  
  
    billing(x);
```

```
break;

case '2':

    printf("\n\tPrice of CHOCOLATE is : tk 100");

    printf("\n\tQuantity : 50ml");

    chocolate:

    printf("\n\tEnter Quantity: ");

    scanf("%d",&x);

    printf("Confirm Your Order [Y/N]: ");

    ch=getche();

    if(ch=='N' || ch=='n')

        goto chocolate;

    x=x*1000;

    printf("\n\tYou Have to Pay RS %d",x);

    billing(x);

    break;

case '3':

    printf("\n\tPrice of STRAWBERRY is : tk 120");

    printf("\n\tQuantity : 50 ml");

    STRAWBERRY :

    printf("\n\tEnter Quantity: ");
```

```
scanf("%d",&x);

printf("Confirm Your Order [Y/N]: ");

ch=getche();

if(ch=='N' || ch=='n')

    goto STRAWBERRY ;

x=x*120;

printf("\n\tYou Have to Pay tk %d",x);

billing(x);

break;

default:

    printf("\n\n\tINVALID INPUT");

    menu();

}

}

void billing(int x)

{

    int amt;

    char ch;

    printf("\n\tEnter Amount: ");

    scanf("%d",&amt);
```

```
if(amt<x)
{
    printf("\n\t Insufficient Amount");
    menu();
}
else {

    printf("\n\tYour Change : %d",amt-x);
    printf("\n\tPlease Collect Your Change...");
}

printf("\nDO YOU WISH TO BUY ANY THING MORE? [Y/N] :");
ch=getche();
if(ch=='Y' || ch=='y')
    menu();
printf("\n\t****THANK YOU****");
exit(1);
}
```