SRM-AP UNIVERSITY

Introduction to Programming Using C

CSE 105 L

Project Report on

"Stocks Buying and Mutual Fund Investing"

submitted in partial fulfillment for the award of the degree in

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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ABSTRACT

- The purpose of this project was to make the easier way in buying of stocks and mutual fund investments.
- The project helps to calculate the bill spent by a person in the stock buying and mutual fund investment.
 - The findings would be based for all the transactions.
- The proposed system was found to be more realistic and cost effective.
- It is helpful for the billing system and to maintain the stock buying and mutual fund investment without any errors.
- This system calculates the bill in more precise way compared to manual method so it is preferred more in real time.

INTRODUCTION

A stock exchange is an organized market where large and small investors alike but and sell through stock brokers. The stocks and shares of companies and government, agencies stock exchange is an institution that provides the facilities that enables both companies and government to raise long term and medium term funds for the establishment, expansion and development of projects through investors. It is really an organized market for already existing security (bounds, stocks and shares) rather than few new issues. Securities of varying types are traded openly on floor of the exchange and through this means, the institution serve as an efficient vehicle for the allocation of available, capital funds to the diverse uses within an economy.

The application of the computer technology in stock exchange market is believed to faster a dramatic advancement in the mode of operation of the market since speed, accuracy and efficiency remains the Hallmark of the computer technology more so in the next millennium when the application of the computer in every human become a essential condition.

Here the person coming to buy stocks or to invest in mutual funds. In case of buying the stocks listed companies are present and the person can able to choose from it. After buying the stocks, they will be billed. Again the person might invest in mutual funds or not. We will provide the features for them in the stock buying and mutual fund investment.

OBJECTIVES

The basic objective of this project work are as follows.

- 1. To eliminate all forms of fraudulent activities associated with the stock exchange and mutual fund market.
- 2. To ensure that timely and accurate information about transactions on the floor gets to the marketers.
- 3. To eradicate all the difficulties encountered by users which are being done manually.
- 4. To encourage easy access to the information about the market.
- 5. Some of the services would be provide by our stock brokerage

Are:-

- 1. Stock Buying.
- 2. Mutual fund investing.
- 2.1 bluechip investment.
- 2.2 capital investment.

PROBLEM DEFINITION

- The system mainly used by the stock brokerages.
- It reduces the time consumption and lot of paperwork, for any single operation it involves numerous references and can buy or invest in multiples ways.

4.1 PROBLEM SOLUTION

- The system customer transactions, satisfies the requirements of the existing system in full fledged manner.
- Through this system, customer can make stock buying in a faster way and also can invest in both bluechip and capital funds at a time.

4.2 SCOPE:

• It is easy to learn about stocks and investment and makes customer comfortable by the process.

SYSTEM REQUIREMENTS

- A System Requirements Specification that describes the features and behavior of a system or software application.
- 5.1. SOFTWARE REQUIREMENTS:

The software requirements are description of features and functionalities of the target system.

- 1. Language used: C language
- 5.2. HARDWARE REQUIREMENTS: Hardware requirements often specify the operating system version, processor type, memory size, available disk space and additional peripherals.

1. Operating System: Windows 7(minimum)

2.Memory : 13.9 KB ROM (minimum)

16.0 KB RAM (minimum)

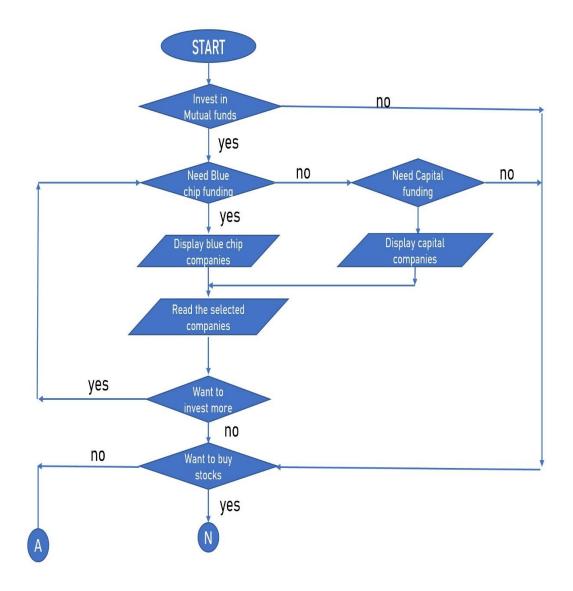
3. Processor : i3 (minimum)

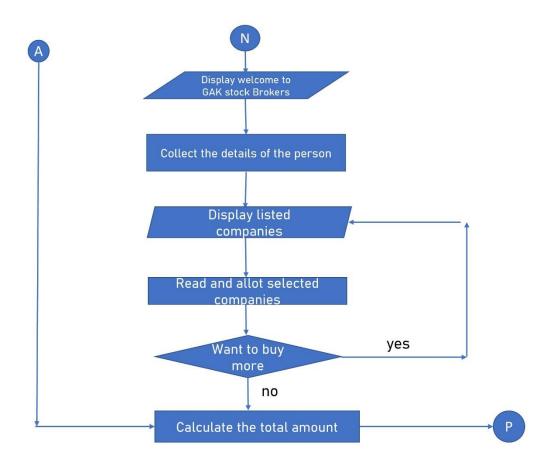
SYSTEM DESIGN

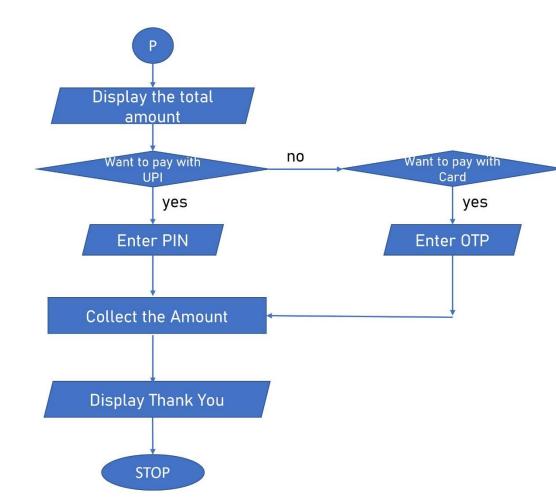
6.1 ALGORITHM:-

- Step 1 : Start.
- Step 2: print "Buying the stocks" or "Investing in mutual funds".
- **Step 3:** read the option chosen.
- **Step 4:** if the person choose buying the stocks go to step 9.
- **Step 5:** if the person choose investing in mutual funds, print Blue chip funds or capital funds.
- **Step 6:** if the person has chosen blue chip funds print blue chip funds menu else print capital funds menu.
- **Step 7:** read the items selected by customer.
- Step 8: after completion of investing of funds ask if the person want to invest more.
- Step 9: if yes repeat step 4 if no, ask whether the person want to Buy the stocks.
- Step 10: if no, print bill collect cash and print thank you if yes print welcome to
- **Step 11:** ask details of the person before buying the stocks and read the details GAK Stock Brokers.
- **Step 12:** Display the companies which are registered for stock selling and the prices of it. Ask the person to select the stocks of the company which he wanted to buy.
- **Step 13:** allot the stocks to the person what he had selected.
- **Step 14:** after the time of buying is completed ask the person to want to buy some more.
- **Step 15:** if yes repeat from step 12, if no.
- **Step 16:** print the amount of stocks he selected and also of the amount invested in mutual funds (if invested).
- **Step 17:** Thank you for choosing GAK Stock Brokers.
- Step 18: Stop.

6.2 FLOW CHART:







SYSTEM IMPLEMENTATION

SOURCE CODE:

The project is using c classes implemented as follows: //Program for buying stock and invest in mutual funds #include<stdio.h> #include<conio.h> void introdispaly() { printf(" printf(" *\n"); WELCOME printf(" GAK STOCK BROKERAGE *\n"); printf(" } void displayline1()

```
{
             int i;
             for(i=1;i<115;i++)
             {
                           printf("=");
             }printf("\n");
}
void displayline2()
{
             int i;
             for(i=1;i<115;i++)
              {
                          printf("*");
            }printf("\n");
}
int main(void)
{
              int
option, entry, response, r, p=0, BILL, stock buying, s, grand total, fundinvesting, here, fundre investing 2, fundre investing 3, fundre investing 2, fundre investing 3, fundre investi
 sting1,billingsection,end,payment,pin,i,start,billing;
             float amount, total, fundtotal;
            char name[40];
              char number[11];
             float bill=0,z,b=0,a=0,red=0,blue=0,TOTAL;
```

```
{
    introdispaly();
    printf("Enter Your Name
                              :");
scanf("%[a-z A-Z]",&name[i]);
printf("Enter Your Phone Number :");
scanf("%sec",&number[i]);
   displayline1();
   displayline1();
   {
            start:
          printf("How can we help you?\n 1) STOCK BUYING\n 2) MUTUAL FUND INVESTMENT\n");
          scanf("%d",&option);
          displayline1();
     displayline1();
      switch (option)
         {
           case 1:
                             printf("
           printf("
                                 Welcome to STOCK BUYING
                                                                  *\n");
           printf("
           goto stockbuying;
           break;
           case 2:
          printf("
                 printf("
                                     Welcome to MUTUAL FUND INVESTMENT
                                                                               *\n");
                 printf("
```

```
goto fundinvesting;
                                           break;
            }
      }
   }
stockbuying:
  menu:
      printf("Make your selection from listed companies\n");
      printf("\nStock selling Companies are\n1)ITC \t - 220 /- Rs\n2)SBI \t - 460 /-
                                                                                         \t - 140 /-
Rs\n3)RELIANCE INDUSTRIES\t - 2400/- Rs\n4)TATA MOTORS \t - 480 /- Rs\n5)ONGC
Rs\n6)ADANI ENTERPRISES \t - 1750/- Rs\n7)TECH MAHINDRA \t - 1800/- Rs\n8)AVENUE
SUPERMARKETS\t - 450 /- Rs\n9)WIPRO
                                      \t - 700 /- Rs\n10)HDFC BANK \t - 1450/- Rs\n");
    printf("\nSelect 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 ---> \n");
    scanf("%d", &response);
    if (response>0 && response<11)
    {
      printf("\nHow many stocks do you want to buy from company %d?\n", response);
      scanf("%d", &s);
        switch (response)
      {
        case 1:
        printf("\n\nYou have ordered %d stocks of ITC \n\n", s);
        p=p+(s*220);
        printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
```

```
displayline2();
break;
case 2:
printf("\n\nYou have ordered %d stocks of SBI \n\n", s);
p=p+(s*460);
printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
displayline2();
break;
case 3:
printf("\n\nYou have ordered %d stocks of RELIANCE INDUSTRIES \n\n", s);
p=p+(s*2400);
printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
                    displayline2();
break;
case 4:
printf("\n\nYou have ordered %d stocks of TATA MOTORS \n\n", s);
p=p+(s*480);
printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
displayline2();
break;
case 5:
printf("\n\nYou have ordered %d stocks of ONGC \n\n", s);
p=p+(s*140);
printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
displayline2();
break;
case 6:
printf("\n\nYou have ordered %d stocks of ADANI ENTERPRISES \n\n", s);
p=p+(s * 1750);
printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
displayline2();
```

```
break;
    case 7:
    printf("\n\n\) ave ordered %d stocks of TECH MAHINDRA \n\, s);
    p=p+(s * 1800);
    printf("\n\nYou have choosen stocks of amount %d/-\n\, p);
    displayline2();
    break;
    case 8:
    printf("\n\nYou have ordered %d stocks of AVENUE SUPERMARKETS \n\n", s);
    p=p+(s * 450);
    printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
    displayline2();
    break;
    case 9:
    printf("\n\nYou have ordered %d stocks of WIPRO \n\n", s);
    p=p+(s * 700);
    printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
    displayline2();
    break;
    case 10:
    printf("\n\nYou have ordered %d stocks of HDFC BANK \n\n", s);
    p=p+(s * 1450);
    printf("\n\nYou have choosen stocks of amount %d/-\n\n", p);
    displayline2();
    break;
 }
}
else
{
      printf("invalid option\n");
          }
```

```
printf("\nlf you want to buy some more stocks \t----> Enter '0'");
                printf("\nlf you are done with these \t----> Enter other than '0'\n ");
                scanf("%d",&entry);
                if(entry==0)
      goto menu;
            if(entry!=0)
            grandtotal:
                displayline2();
                printf("\n\nYou have selected stocks of amount %d /- \n\n\n",p);
                z=p+p*0.05;
         printf("
  printf("
                               THE STOCK BILL IS %f
      printf("
             printf("
                printf(" | !!! GENTLE REMAINDER: (This bill includes tax applied by the
government |\n");
                printf("
            displayline2();
            printf("Do you want to invest in Mutual funds? \n 1)Yes \n 2) No \n");
            scanf("%d",&response);
```

```
{
                if (response==1)
                {
                  fundinvesting:
                      printf("\nEnter \n '1' to invest in Blue chip fundings \n '2' to invest in capital
fundings \n '3' to exit--->\n");
                      scanf("%d",&entry);
                      {
                             if(entry!=1&&entry!=2&&entry!=3)
                      {
                                    printf("\nInvalid option *please try again*\n");
              goto fundinvesting;
                          }
                    if (entry==1)
                    fundreinvesting1:
                     {
                            displayline1();
                                     printf("NOTE:- (MINIMUM AMOUNT TO INVEST IN BLUECHIP
FUNDINGS IS 5000/-)\n");
                                    displayline1();
                                      printf("Enter the amount you want to invest:-");
                                      scanf("%d",&p);
                                  {
                                 if(p>=5000)
                                 {
                                         printf("\n\nThank you for investing in BLUECHIP FUNDINGS
n\n";
```

fundtotal1: displayline2(); printf("\n\nTHE AMOUNT YOU INVESTED IN BLUECHIP FUNDS IS $%d\n\n',p);$ red=red+p+p*0.01; printf(" printf(" THE BLUECHIP FUNDING BILL IS %f *\n",red); printf(" printf(" printf(" | !!! GENTLE REMAINDER: (This bill includes tax applied by the government) |\n"); printf(" displayline2(); goto here; } if(p<=5000); printf("\n\n----> | | | sorry not possible with amount less than 5000/-|||<----\n\n\n"); goto fundreinvesting1; } } } if (entry==2) fundreinvesting2: displayline1(); printf("NOTE:- (MINIMUM AMOUNT TO INVEST IN CAPITAL FUNDING IS 2500/-) \n");

```
displayline1();
                printf("Enter the amount you want to invest:-");
          scanf("%d",&p);
                        {
                      if(p > = 2500)
                      {
                            printf("
                                            \n\nThank you for investing in capital fund\n\n");
                            fundtotal2:
                      displayline2();
                      printf("\n\nTHE AMOUNT YOU INVESTED CAPITAL FUNDS IS %d\n\n\n",p);
                      blue=blue+p+p*0.01;
                printf("
                   printf("
                               THE CAPITAL FUNDING BILL IS %f
                                                             *\n",blue);
      printf("
          printf("
                printf(" | !!! GENTLE REMAINDER : (This bill includes tax applied by the
government) |\n");
                printf("
                displayline2();
      goto here;
                      }
                      if (p<2500)
                            printf("\n\----> | | | sorry not possible with amount less than 2500/-
|||<----\n\n\n");
```

```
goto fundreinvesting2;
                      }
            }
                             }
              if (entry==3)
              goto total;
               }
               }
       if(response==2)
       {
        goto total;
       }
}
          here:
               printf("\n If you want to invest more ----> Enter 1");
          printf("\n If you are completed your investing ----> Enter 2\n");
          scanf("%d",&entry);
```

```
if(entry==1)
 {
      printf("\n");
      goto fundinvesting;
      }
      if(entry==2);
      {
             printf("\n");
             goto total;
      }
if(response==2)
{
      goto billingsection;
}
 billingsection:
      z=p+p*0.05;
      total:
      TOTAL = red+blue+z;
      displayline1();
      displayline1();
      printf("\nThe Final bill of Buying Stocks and Mutual Funds is %f\n",TOTAL);
      displayline1();
      displayline1();
        printf("
```

```
printf("
                                        | !!! GENTLE REMAINDER: (This bill includes tax applied by the
government) |\n");
                     printf("
                if(TOTAL==0)
               {
                     goto end;
               }
               printf("Payment method\n\n1)Card payment\n\n2)UPI payment\n\n");
               scanf("%d",&payment);
               {
                     if(payment!=1&&payment!=2)
                     {
                                    printf("\nInvalid option please try again\n");
              goto billingsection;
                      }
                if(payment==1)
                {
                     printf("\nEnter the otp\n");
                     scanf("%d",&pin);
                if(payment==2)
                {
                     printf("\nEnter the pin\n");
                     scanf("%d",&pin);
                }
               }
              printf("\n\nVerifying the details\n\nTransaction processing......");
              printf("\n\nTransaction successful\n");
               red=TOTAL-z-blue;
```

```
blue=TOTAL-red-z;
             TOTAL=blue+z+red;
             displayline1();
             printf("
                          \n \);
             printf("
                          Name
                                       t:%s\n\n",name);
                                           t:%s\n\n",number);
             printf("
                          Phone Number
             printf("
                          STOCK Bill
                                        t:%f\n\n",z);
                          MUTUAL FUNDING Bill \t:%f\n\n",red);
             printf("
             printf("
                          CAPITAL FUNDING Bill\t:%f\n\n",blue);
             printf("
                                        t:%f\n\n",TOTAL);
                          TOTAL BILL
             displayline1();
        end:
        printf("
                        -----\n");
    printf("
                  | Thank you for choosing GAK STOCK BROKERS |\n");
                   -----\n");
   printf("
    displayline1();
}
```

RESULTS

```
WELCOME
                                    GAK STOCK BROKERAGE
                 :SRM STUDENT
Enter Your Name
Enter Your Phone Number :2111001000
1) STOCK BUYING
2) MUTUAL FUND INVESTMENT
*******************
                     Welcome to STOCK BUYING
             *******************
Make your selection from listed companies
Stock selling Companies are
                 - 220 /- Rs
1)ITC
2)SBI
                 - 460 /- Rs
               - 2400/- Rs
3)RELIANCE INDUSTRIES
4)TATA MOTORS
                 - 480 /- Rs
5)ONGC
                 - 140 /- Rs
                - 1750/- Rs
6)ADANI ENTERPRISES
7)TECH MAHINDRA
8)AVENUE SUPERMARKETS
                 - 1800/- Rs
               - 450 /- Rs
9)WIPRO
                 - 700 /- Rs
10)HDFC BANK
                 - 1450/- Rs
Select 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 --->
How many stocks do you want to buy from company 9?
You have ordered 5 stocks of WIPRO
You have choosen stocks of amount 3500/-
```

```
----> Enter '0'
If you want to buy some more stocks
If you are done with these
                               ----> Enter other than '0'
0
Make your selection from listed companies
Stock selling Companies are
1)ITC
2)SBI
                   - 220 /- Rs
- 460 /- Rs
3)RELIANCE INDUSTRIES
                   - 2400/- Rs
4)TATA MOTORS
                   - 480 /- Rs
5)ONGC
                   - 140 /- Rs
6)ADANI ENTERPRISES
                   - 1750/- Rs
7)TECH MAHINDRA
                   - 1800/- Rs
8)AVENUE SUPERMARKETS
                   - 450 /- Rs
                   - 700 /- Rs
9)WIPRO
10)HDFC BANK
                    - 1450/- Rs
Select 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 --->
How many stocks do you want to buy from company 7?
You have ordered 5 stocks of TECH MAHINDRA
You have choosen stocks of amount 12500/-
----> Enter '0'
If you want to buy some more stocks
If you are done with these
                              ----> Enter other than '0'
You have selected stocks of amount 12500 /-
                ***********************************
                                    THE STOCK BILL IS 13125.000000
                ************************************
                   !!! GENTLE REMAINDER : (This bill includes tax applied by the government
Do you want to invest in Mutual funds?
1)Yes
2) No
'1' to invest in Blue chip fundings '2' to invest in capital fundings
'3' to exit--->
```

Enter '1' to invest in Blue chip fundings '2' to invest in capital fundings '3' to exit> 1
NOTE:- (MINIMUM AMOUNT TO INVEST IN BLUECHIP FUNDINGS IS 5000/-)
======================================
Thank you for investing in BLUECHIP FUNDINGS ************************************
THE AMOUNT YOU INVESTED IN BLUECHIP FUNDS IS 10000

\mid $!!!$ <code>GENTLE</code> <code>REMAINDER</code> : (This bill includes tax applied by the government) \mid

<pre>If you want to invest more> Enter 1 If you are completed your investing> Enter 2 1 Enter '1' to invest in Blue chip fundings '2' to invest in capital fundings</pre>
'3' to exit> 2
NOTE :- (MINIMUM AMOUNT TO INVEST IN CAPITAL FUNDING IS 2500/-)
Enter the amount you want to invest:-20000
Thank you for investing in capital fund

THE AMOUNT YOU INVESTED CAPITAL FUNDS IS 20000

!!! GENTLE REMAINDER : (This bill includes tax applied by the government)

If you want to invest more>	
If you are completed your invest: 2	ing> Enter 2
The Final bill of Buying Stocks a	nd Mutual Funds is 43425.000000
	REMAINDER : (This bill includes tax applied by the government)
ayment method	
.)Card payment	
2)UPI payment	
Enter the otp 1111	
.111	
/erifying the details	
ransaction processing	
ransaction successful	
ayment method	
)Card payment	
)UPI payment	
nter the otp	
111	
Verifying the details	
ransaction processing	
ransaction successful	
GRAND TOTAL BILL:-	
Name	:SRM STUDENT
Phone Number	:2111001000
STOCK Bill	:13125.000000
MUTUAL FUNDING Bill	
CAPITAL FUNDING Bill	
TOTAL Bill	:43425.000000
Thank you	for choosing GAK STOCK BROKERS
	with return value 0

REFERENCES

- Dev C++
- Tutorial point
- Books.

----THE END-----