

FINAL PROJECT (PF LAB)

FOXTROT MART SYSTEM

MEMBERS

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INTRODUCTION OF THE SOUCRE CODE

Using C++ as our programming language, we developed the MART. With the help of the C++ programming language, we may also make a wide range of other programs, including games, calculators, management systems, and more.

DESCRIPTION OF THE SOURCE CODE

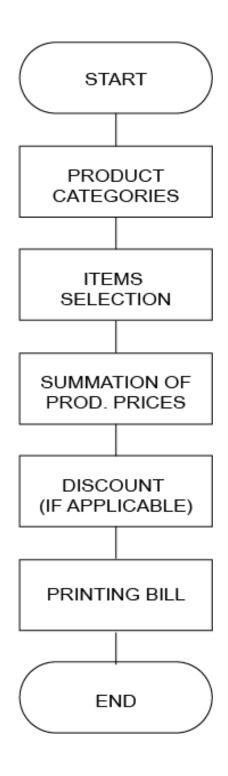
This code creates a simple console-based program that simulates a shopping experience at a store called "Foxtrot Mart." The program presents the user with options for different types of items to purchase, such as food items or cleaning items. The user can select a category and then select a specific item from that category. The code then calculates the total cost of the items selected and applies a discount if the total cost is above a certain amount. The program also allows the user to continue shopping after making a purchase.

ALGORITHM

This program goes through the following steps:

- 1. Display welcome message and discount offer
- 2. Show options for different types of items to purchase
- 3. Ask user to select a category
- 4. Show options for specific items within the selected category
- 5. Ask user to select a specific item
- 6. Ask user for the quantity of the selected item
- 7. Add the cost of the selected item to the running total
- 8. Ask user if they would like to continue shopping
- 9. If yes, repeat steps
- 10. If no, calculate the total cost and apply discount if applicable
- 11. Display the final total cost and the amount of discount (if any)

FLOW CHART



SOURCE CODE

(HEADER FILE CODE)

#include<iostream>

```
using namespace std;
void foodItems(){
       cout << "_____FOOD ITEMS_____";
       cout << endl << endl;
       cout << "1) Shwarma-----$8." << endl;
       cout << "2) French Fries-----$5." << endl;
       cout << "3) Zinger Burger----$20." << endl;
       cout << "4) Pizza-----$30." << endl;
       cout << "5) Pizza Fries-----$15." << endl;
       cout << "6) Club Sandwich----$10." << endl;
       }
void cleaningItems(){
       cout << "______";
       cout << endl << endl;
```

```
cout << "1) Teeth brush-----$8." << endl;
       cout << "2) Bottle spray-----$5." << endl;
       cout << "3) Dishwasher soap-----$20." << endl;
       cout << "4) Sponge-----$3." << endl;
       cout << "5) Shoe polish-----$15." << endl;
       cout << "6) Shoe brush-----$10." << endl;
       }
void sportsItems(){
       cout << "_____SPORTS ITEMS_____";
       cout << endl << endl;
       cout << "1) Tennis Racket -$8." << endl;
       cout << "2) Football -----$30." << endl;
       cout << "3) Cricket Bat ---$60." << endl;
       cout << "4) Cricket Ball --$25." << endl;
       cout << "5) Golf Ball -----$15." << endl;
       cout << "6) Hockey -----$50." << endl;
       }
void computerItems(){
       cout << "______COMPUTER ITEMS______";
       cout << endl << endl;
       cout << "1) Keyboard-----$4." << endl;
       cout << "2) Mouse-----$4." << endl;
       cout << "3) Speakers----$20." << endl;
       cout << "4) LED-----$50." << endl;
       cout << "5) Handfree-----$3." << endl;
```

```
cout << "6) Mouse Pad----$2." << endl;
       }
void options(){
       cout << "1) Food Items" << endl;
       cout << "2) Cleaning Items" << endl;</pre>
       cout << "3) Sports Items" << endl;</pre>
       cout << "4) Computer Items" << endl;
       cout << "5) Exit." << endl << endl;
}
(MAIN CODE)
#include<iostream>
#include "myfirst.h"
using namespace std;
int main()
{
       int opt1;
       int opt2;
       int q;
       bool choice;
       int sum = 0;
       cout << "|_____WELCOME TO FOXTROT MART_____|" << endl << endl;
```

```
cout << endl;
        cout << "There will be a 10% DISCOUNT On $150 OR more than $150 shopping" << endl << endl;
morebilling:
        options();
        cout << "Enter the Option: ";</pre>
        cin >> opt1;
        cout << endl << endl;
        if (opt1 == 1)
        {
                foodItems();
                cout << "Select option: ";</pre>
                cin >> opt2;
                cout << endl;
                if(opt2 == 1){
                cout << "Shwarma-----$8." << endl;
                cout << "Quantity: ";</pre>
```

```
cin >> q;
sum +=8*q;
else if(opt2== 2){
cout << "French fries-----$5." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum += 5*q;
}
else if(opt2== 3){
cout <<"Zinger Burger----$20." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=20*q;
}
else if(opt2== 4){
cout << "Pizza-----$30." << endl;
cout << "Quantity: ";
cin >> q;
sum +=30*q;
}
else if(opt2== 5){
cout << "Pizza Fries-----$15." << endl;
cout << "Quantity: ";</pre>
cin >> q;
```

```
}
        else if(opt2== 6){
        cout << "Club Sandwich-----$10." << endl;
        cout << "Quantity: ";</pre>
        cin >> q;
        sum +=10*q;
        }
        else {
                 cout << "Invalid selesction" << endl;</pre>
        }
        cout << "Want to buy more? (1/0)" << endl;
        cin >> choice;
        cout << endl;
        if (choice == 1){
                 goto morebilling;
        }
}
else if (opt1 == 2)
{
        cleaningItems();
        cout << "Select option: ";</pre>
        cin >> opt2;
        cout << endl;
        if(opt2 == 1){
```

sum +=15*q;

```
cout << "Teeth brush-----$8." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=8*q;
}
else if(opt2== 2){
cout << "Bottle spray-----$5." << endl;
cout << "Quantity: ";
cin >> q;
sum +=5*q;
}
else if(opt2== 3){
cout << "Dishwasher soap-----$20." << endl;
cout << "Quantity: ";
cin >> q;
sum +=20*q;
}
else if(opt2== 4){
cout << "Sponge-----$3." << endl;
cout << "Quantity: ";
cin >> q;
sum +=3*q;
}
else if(opt2== 5){
cout << "Shoe polish-----$15." << endl;
cout << "Quantity: ";
```

```
cin >> q;
        sum +=15*q;
        else if(opt2== 6){
        cout << "Shoe Brush-----$10." << endl;
        cout << "Quantity: ";</pre>
        cin >> q;
        sum +=10*q;
        }
        else {
                cout << "Invalid selesction" << endl;</pre>
        }
        cout << "Want to buy more? (1/0)" << endl;
        cin >> choice;
        cout << endl;
        if (choice == 1){
                goto morebilling;
        }
}
else if (opt1 == 3)
{
        sportsItems();
        cout << "Select option: ";</pre>
        cin >> opt2;
        cout << endl;
        if(opt2 == 1){
        cout << "Tennis Racket-----$8." << endl;
```

```
cout << "Quantity: ";
cin >> q;
sum +=8*q;
else if(opt2== 2){
cout << "Football-----$30." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=30*q;
}
else if(opt2== 3){
cout << "Cricket Bat-----$60." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=60*q;
}
else if(opt2== 4){
cout << "Cricket Ball-----$25." << endl;
cout << "Quantity: ";
cin >> q;
sum +=25*q;
}
else if(opt2== 5){
cout << "Golf Ball-----$15." << endl;
cout << "Quantity: ";
```

```
cin >> q;
        sum +=15*q;
        else if(opt2== 6){
        cout << "Hockey-----$50." << endl;
        cout << "Quantity: ";</pre>
        cin >> q;
        sum +=50*q;
        }
        else {
                cout << "Invalid selesction" << endl;</pre>
        }
        cout << "Want to buy more? (1/0)" << endl;
        cin >> choice;
        cout << endl;
        if (choice == 1){
                goto morebilling;
        }
}
else if (opt1 == 4)
{
        computerItems();
        cout << "Select option: ";</pre>
        cin >> opt2;
        cout << endl;
        if(opt2 == 1){
        cout << "Keyboard-----$4." << endl;
```

```
cout << "Quantity: ";
cin >> q;
sum +=4*q;
else if(opt2== 2){
cout << "Mouse-----$4." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=4*q;
}
else if(opt2== 3){
cout << "Speakers-----$20." << endl;
cout << "Quantity: ";</pre>
cin >> q;
sum +=20*q;
}
else if(opt2== 4){
cout << "LED-----$50." << endl;
cout << "Quantity: ";
cin >> q;
sum +=50*q;
}
else if(opt2== 5){
cout << "Handfree-----$3." << endl;
cout << "Quantity: ";
```

```
cin >> q;
        sum +=3*q;
        else if(opt2== 6){
        cout << "MousePad-----$2." << endl;
        cout << "Quantity: ";</pre>
        cin >> q;
        sum += 2*q;
        }
        else {
                cout << "Invalid selesction" << endl;</pre>
        }
        cout << "Want to buy more? (1/0)" << endl;
        cin >> choice;
        cout << endl;
        if (choice == 1){
                goto morebilling;
        }
}
else if(opt1 == 5){
        cout << "You are exited" << endl;</pre>
}
else{
        cout << "Invalid" << endl;</pre>
}
cout << "Your bill is $" << sum << endl;
cout << "----" << endl;
```

```
if (sum>=150){
        sum = sum- (10*sum/100);
        cout << "After discount, The bill is $" << sum << endl;
        cout << "-----" << endl;
}

cout << endl << endl;
cout << "-----" << endl;
cout << "Thanks for coming!" << endl;
cout << "-----" << endl;
return 0;
}</pre>
```