BVPS Billing

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Project explanation :-

WELCOME to BVPS billing!!!
Our main aim is to write a program to assign billing for every customer at any place. To provide greater speed & reduced time consumption of the billing process.The billing software consists of many modules and these modules consist of various sub modules, which provides the user with various facilities. This code is 100% efficient.

Project Scope :-

1.Reduced clerical work as most of the work is done by computer.
2.This billing system can be used everywhere.
3.This has a user friendly interface where any shopkeeper can easily edit their list of items/menu and also set up their own discount percentage as per their interest.

4.Get rid of the old pen paper and calculator stuff, upgrade to BVPS billing and change your business model now.

5.This works on any device (Android / Iphone / Macos / Windows / Linux).

Source Code :-

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>


double price[7] = {15.80 , 10.50 , 19.00 , 14.00 , 12.00 , 22.00 , 16.00 };
double mealTaxPrices[7];
int adultNumber,childNumber;


void printMeals();
void orderMeals();
double orderForAdult();
double orderForChildren();
int main()
{
   char response = 'y';


    printMeals();
    while(response == 'y'|| response == 'Y')
   {
         printf("please enter number of adults  :");
         scanf("%d",&adultNumber);

         printf("please enter number of children:");
         scanf("%d",&childNumber);


         orderMeals();

         printf("\nwould you like to continue(y/n):");
         scanf("\n%c",&response);
   }

 printf("\n      ******* THANK YOU FOR COMING  **********\n");
 printf("\20********   PLEASE VISIT US NEXT TIME  **********\20 \n");
  system("pause");
```

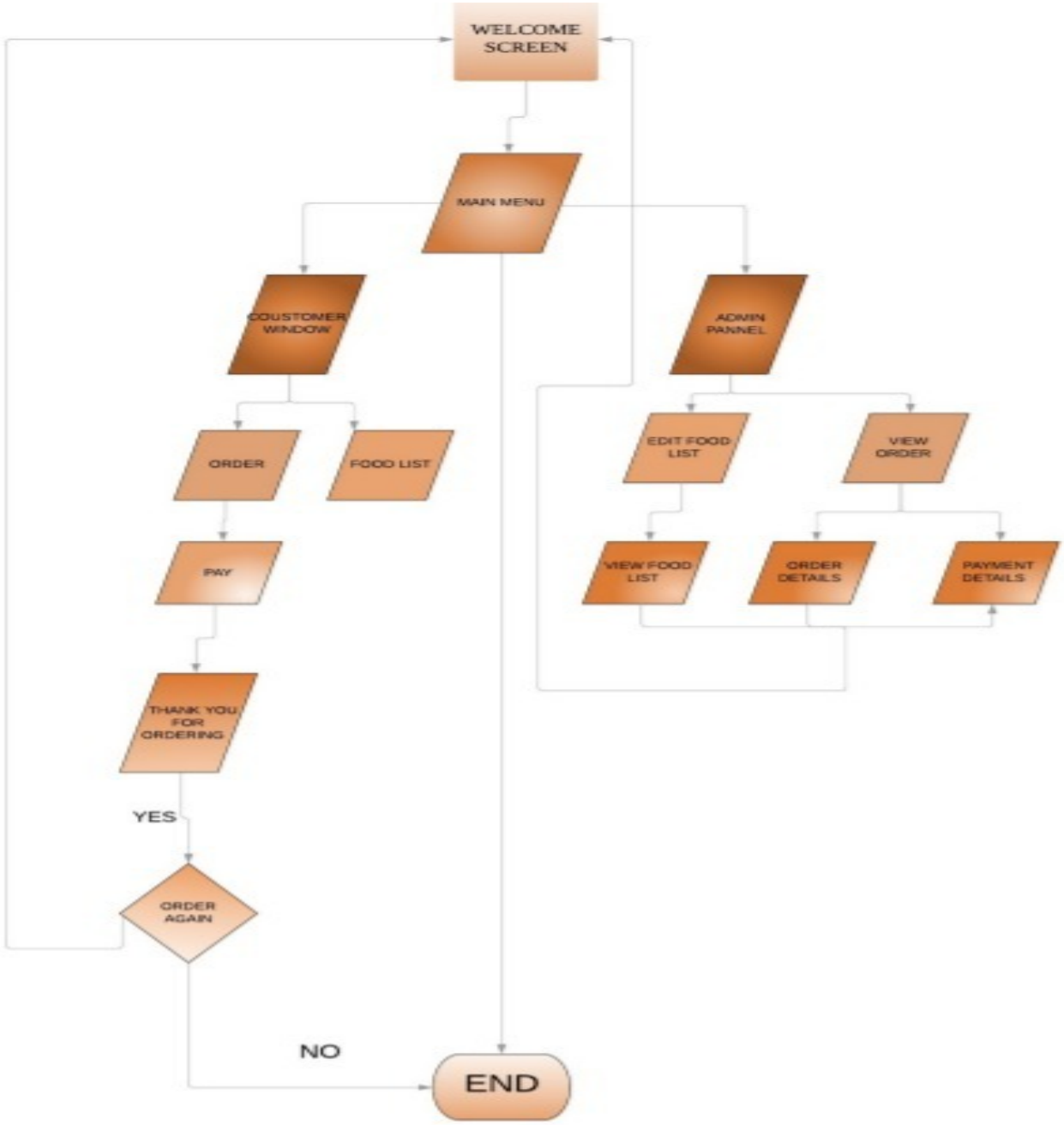
```
   return 0;
}

void printMeals()
{

      printf("\20*******  WELCOME TO BVPS RESTURANT **********\20\n");
      printf(" \t\t\t Below is the menue:\20\n");
      printf(" \t\t\t MEALS\t\t\tPRICE:\n");
      printf(" \t\t\t \22**********\22\n");
      printf(" \t\t\t 1- Chips\tRS15.80\n");
      printf(" \t\t\t 2- Noodles\tRS10.50\n");
      printf(" \t\t\t 3- Fried Rice\tRS19.00\n");
      printf(" \t\t\t 4- Chicken Chop\tRS14.00\n");
      printf(" \t\t\t 5- Chicken Soup\tRS12.00\n");
      printf(" \t\t\t 6- Corn Soup\tRS22.00\n");
      printf(" \t\t\t 7- Seafood Platter\tRS16.00\n");

      printf("\n");
}
void orderMeals()
{
           double totalPriceForAdult, totalPriceForChildren;
           double allPayment,discount;
         printf("                    \t\t** ORDER MENUE**\n");

        totalPriceForAdult =  orderForAdult();
        totalPriceForChildren = orderForChildren();
                    allPayment = totalPriceForAdult + totalPriceForChildren ;

     printf("\n \t\t     \ **************\   \n");
     printf(" \t\t   ******  Final Bill   ****      \n");
     printf(" \t\t\tadult\ child\tcount\t\ttotal price\n");
     printf(" \t\t\tadults\t\t%d\t\t%5.2f\n",adultNumber,totalPriceForAdult);
     printf(" \t\t\tchildren\t%d\t\t%5.2f\n",childNumber,totalPriceForChildren);
     printf(" \t\t\tTotal bill\t\t\t%5.2f\n",allPayment );



     if(allPayment < 10)
                     discount=((allPayment * 0.5)/100);
     else if(allPayment>= 10 && allPayment<20)
         discount=((allPayment * 1)/100);
     else if(allPayment>= 20 && allPayment<30)
```

```
        discount=((allPayment * 1.5)/100);
    else if(allPayment>= 30 && allPayment<40)
        discount=((allPayment * 2.0)/100);
          else
                discount= ((allPayment * 5.0)/100);

        printf(" \t\t\tTotal bill after discount\t%5.2f\n",allPayment-discount);

}
double orderForAdult()
{
    int menuOption,i,amount;
     char response = 'y';
     double totalPerPerson = 0.0,totalAllPerson = 0.0;
     double tax = 5.0;
     if(adultNumber <=0)
                  printf("\n ");
          else
     printf("*\tadults:\n");
     for(i=0;i<adultNumber;i++)
    {
           printf("adult %d please enter your orders\n",i+1);
           while(response == 'y' || response == 'Y')
           {
                  printf("please enter your option:");
                  scanf("%d",&menuOption);
                                                      if(menuOption<1 || menuOption>7)
                                                      {
                                                            printf("sorry we don`t have this
order \nagain! ");
                                                            continue;
                                                      }
                  printf("please enter your quantity for order:");
                  scanf("%d",&amount);


                totalPerPerson = totalPerPerson + (amount * price[menuOption - 1] );

                  printf("\nWould you like to enter more orders(y/n):");
                  scanf("\n%c",&response);



           }
```

```
            printf("\n");
            totalAllPerson += totalAllPerson +  totalPerPerson;
            totalPerPerson = 0.0;
            response = 'y';
    }

    return totalAllPerson + ((totalAllPerson * tax) / 100);
}
double orderForChildren()
{
      int menuOption,i,amount;
     char response = 'y';
     double totalPerChild = 0.0,totalAllChildren = 0.0;
     double tax = 5.0,oneOrder;
      if(childNumber <=0)
                  printf("\n");
            else
      printf("*\tChildren:\n");
      for(i=0;i<childNumber;i++)
    {
            printf("child %d please enter your orders\n",i+1);
            while(response == 'y' || response == 'Y')
            {
                  printf("please enter your option:");
                  scanf("%d",&menuOption);
                                                      if(menuOption<1 || menuOption>7)
                                                      {
                                                            printf("sorry we don`t have this
order \nagain! ");
                        continue;
                                                      }
                  printf("please enter your quantity for order:");
                  scanf("%d",&amount);

                  oneOrder = (price[menuOption - 1] * 60)/100 ;
                  totalPerChild = totalPerChild + (amount * oneOrder)  ;

                                                      printf("Would you like to enter more
orders(y/n):");
                  scanf("\n%c",&response);


            }
            totalAllChildren += totalAllChildren +  totalPerChild;
```

```
            response = 'y';
            totalPerChild = 0.0;

            printf("\n");

        }

        return totalAllChildren + ((totalAllChildren * tax) / 100);
    }
```

Flowchart :-


WELCOME SCREEN
MAIN MENU
COUSTOMER WINDOW
ADMIN PANNEL
ORDER
FOOD LIST
EDIT FOOD LIST
VIEW ORDER
PAY
VIEW FOOD LIST
ORDER DETAILS
PAYMENT DETAILS
THANK YOU FOR ORDERING
YES
ORDER AGAIN
NO
END

Algorithm :-

Step 1:- Start.
Step 2:- Declare the variables.
Step 3:- Read response numbers of adults and children.
Step 4:- Display the meals menu.
Step 5:- printf (sorry we don't have this order) if menu “option>7”.
Step 6:- Read response quantity of order.
Step 7:- Calculate the price of the given order.
Step 8:- Declare the discount according to the order price range of the given order.
Step 9:- Thanks for visiting.
Step 10:- STOP.

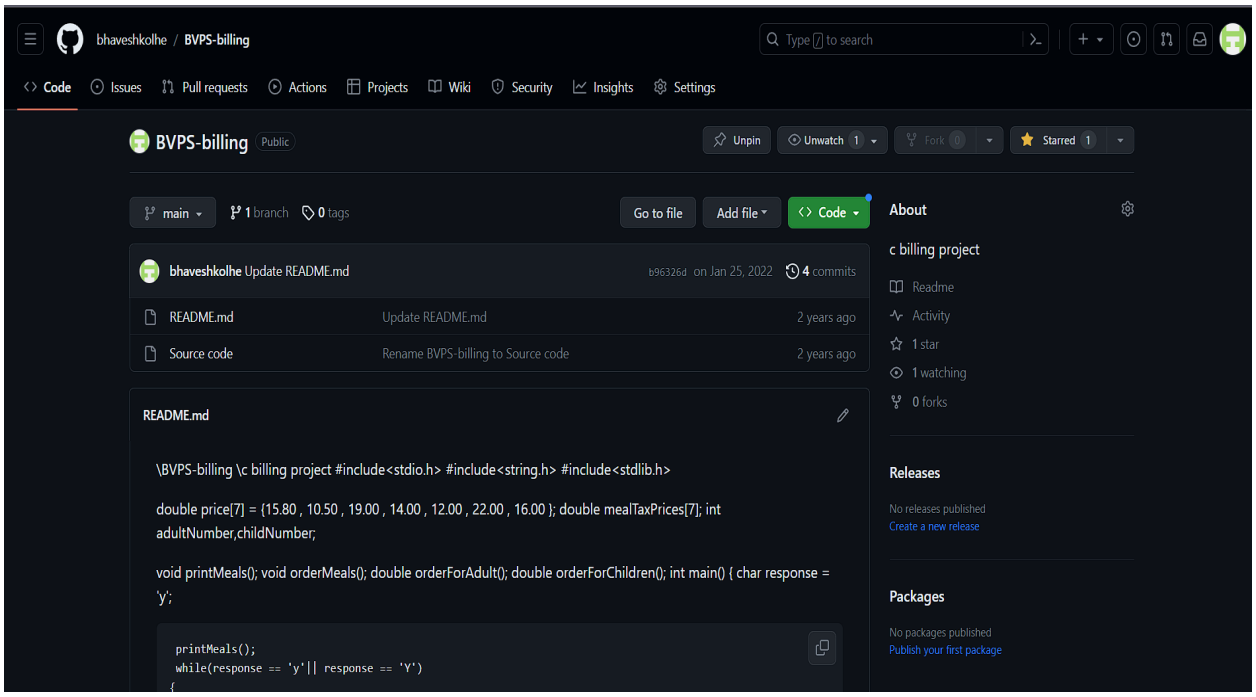
Output screen :-

```
*******  WELCOME TO BVPS RESTURANT **********
                        Below is the menue:
                        MEALS                   PRICE:
                        ***********
                        1- Chips        RS20.00
                        2- Noodles      RS80.00
                        3- Fried Rice   RS30.00
                        4- Chicken Chop         RS14.00
                        5- Chicken Soup         RS20.00
                        6- Corn Soup    RS22.00
                        7- Seafood Platter      RS16.00

please enter number of adults  :3
please enter number of children:1
                                ** ORDER MENUE**
*       adults:
adult 1 please enter your orders
please enter your option:1
please enter your quantity for order:1

Would you like to enter more orders(y/n):n

adult 2 please enter your orders
please enter your option:3
please enter your quantity for order:1

Would you like to enter more orders(y/n):n

adult 3 please enter your orders
please enter your option:5
please enter your quantity for order:1

Would you like to enter more orders(y/n):n
```

```
*       Children:
child 1 please enter your orders
please enter your option:7
please enter your quantity for order:1
Would you like to enter more orders(y/n):n


                    **************
                ******  Final Bill   ****
                     adult child     count          total price
                     adults          3              118.86
                     children        1              10.08
                     Total bill                     128.94
                     Total bill after discount      122.49
```

```
      ******* THANK YOU FOR COMING  **********
********   PLEASE VISIT US NEXT TIME  **********
```

GITHUB :-



~ThankYou

**********END**********