

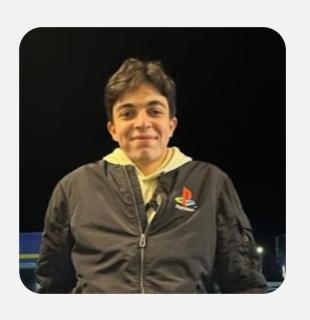
Meet our Team



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Today's Highlights

1 main.c

² functions.c

3 functions.h



```
int main()
  loadCustomers();
  int option;
   printf("\n");
  printf("\t\t\t Welcome to Banque Ras \n");
  printf("\t\t-----\n");
  printf("\t\t1.create customer\n");
  printf("\t\t2.edit_customer \n");
  printf("\t\t3.print customer data \n");
  printf("\t\t4.delete_customer \n");
  printf("\t\t5.deposit\n");
  printf("\t\t6.money_transfer\n");
  printf("\t\t7.withdraw\n");
  printf("\t\t8.Exit\n\n");
  while(1){
  printf("\t\tEnter your option ");
  scanf("%d",&option);
```

1st Main.c

```
switch (option) {
 case 1:
    create customer();
    break;
 case 2:
    edit customer();
    break;
 case 3:
    print_customer_data();
    break;
 case 4:
    delete customer();
    break;
 case 5:
     depositMoney();
     break;
 case 6:
     transfer money();
     break;
 case 7:
     withdrawMoney();
     break;
 case 8:
     return 0 ;
 default:
    printf("\n\t\tInvalid option , please choose from the menu\n");
    break;
 return 0;
```

2nd Functions.c

- 1 Create customer
- 2 Edit customer
- Print customer data
- 4 Delete customer
- 5 Deposit money
- 6 Transfer money
- 7 Withdraw money



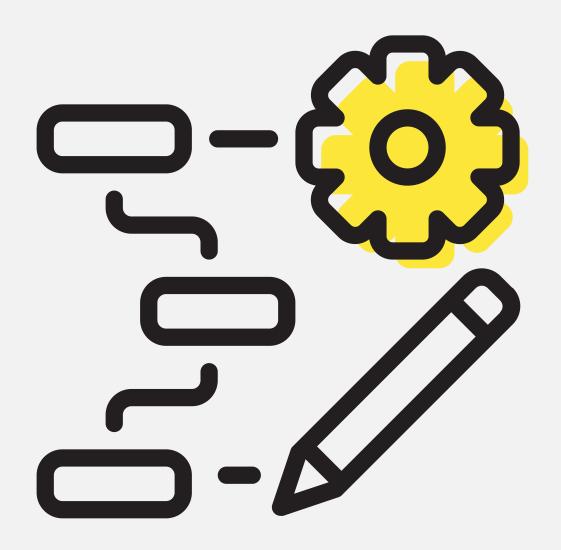


```
void create_customer(){
     if (customerCount >= 100) {
        printf("\t\tCustomer list is full.\n");
        return;
    struct Customer c;
    int tryCount=0;
    while(1) {
        if (tryCount==3){
            printf("\t\tTry again later \n");
            return;
        printf("\t\tEnter Customer ID: ");
        scanf("%d", &searchId);
        tryCount++;
        if (!idCheck(searchId)) {
            printf("\t\tID must be exactly 4 digits.\n");
            continue;
        if (findCustomerById(searchId)!=-1){
            printf("\t\tThis ID already exists .\n");
         else {
            c.id=searchId;
            break ;}
    printf("\t\tEnter name: ");
    scanf(" %[^\n]", c.name);
```

Create customer

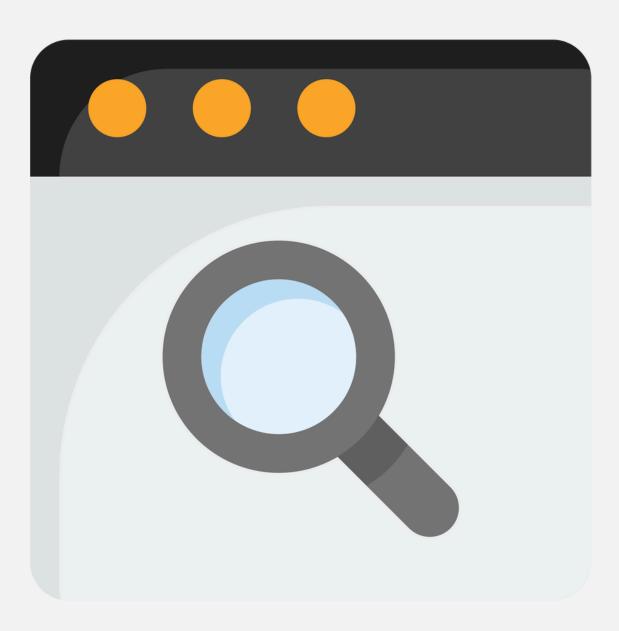
```
while(1) {
    printf("\t\tEnter cash: ");
    scanf("%lf", &c.balance);
    if (c.balance <= 0) {</pre>
        printf("\t\tCash must be positive.\n");
    }else { break ;}
printf("\t\tEnter phone: ");
scanf(" %[^\n]", c.phone);
customers[customerCount] = c;
customerCount++;
saveCustomers();
printf("\t\tCustomer added successfully.\n");
```

Edit customer



```
void edit_customer(){
    printf("\t\tEnter customer ID to update te data : ");
    scanf("%d", &searchId);
    int index = findCustomerById(searchId);
   if( index ==-1){
        printf("\t\tCustomer with ID %d not found.\n", searchId);
        return;
    printf("\t\tEnter new name: ");
    scanf(" %[^\n]", customers[index].name);
    printf("\t\tEnter new phone: ");
    scanf(" %[^\n]", customers[index].phone);
    saveCustomers();
    printf("\t\tCustomer updated.\n");
    return;
```

Print customer data



```
void print_customer_data(){
    printf("\t\tEnter customer ID to print data : ");
    scanf("%d", &searchId);
    int index = findCustomerById(searchId);
    if(index == -1){}
       printf("\t\tyour ACCOUNT IS NOT AVAILABLE.\n");
    }else {
       for(int i = 0; i < 4; i++){
           printf("\n\t\t=== Account Details ===\n");
           printf("\t\tID : %d\n", customers[index].id);
           printf("\t\tName : %s\n", customers[index].name);
           printf("\t\tCash : %.2f\n", customers[index].balance);
           printf("\t\tphone : %s\n", customers[index].phone);
           printf("\t\t======\n");
           break;
```

Delete customer



```
void delete_customer(){
   printf("\t\tEnter customer ID to be deleted: ");
   scanf("%d", &searchId);
    int index = findCustomerById(searchId);
   if( index ==-1){
        printf("\t\tCustomer with ID %d not found.\n", searchId);
        return;
   for (int j = index; j < customerCount - 1; j++) {</pre>
        customers[j] = customers[j + 1];
   customerCount--;
    saveCustomers();
   printf("\t\tCustomer deleted.\n");
```

Deposit



```
void depositMoney() {
   double amount;
   int tryCount=0;
    int index;
   while(1) {
       if (tryCount==3){
            printf("\t\tTry again later \n");
           return;
        printf("\t\tEnter Customer ID: ");
        scanf("%d", &searchId);
        tryCount++;
        index = findCustomerById(searchId);
        if (index == -1) {
            printf("\t\tCustomer not found.\n");
            continue;
        }else {
            break;
   printf("\t\tEnter amount to deposit: ");
    scanf("%lf", &amount);
   if (amount <= 0) {
        printf("\t\tInvalid amount.\n");
        return;
   customers[index].balance += amount;
    saveCustomers();
   printf("\t\tDeposit successful. New balance: $%.2f\n", customers[index].balance);
```

```
void transfer_money(){
    double amount;
    int indexSender;
    int tryCount;
    while(1) {
        if (tryCount==3){
            printf("\t\tTry again later \n");
            return;
        printf("\t\tEnter Customer ID: ");
        scanf("%d", &searchId);
        tryCount++;
        indexSender = findCustomerById(searchId);
        if (indexSender == -1) {
            printf("\t\tCustomer not found.\n");
            continue;
        }else {
            break;
    printf("\t\tEnter ID of the receiver:");
    scanf("%d", &searchId);
    int indexRecievier = findCustomerById(searchId);
```



Transfer

```
if (indexRecievier ==-1) {
    printf("\t\tCustomer not found.\n");
    return;
if (customers[indexSender].id == customers[indexRecievier].id) {
    printf("\t\tError: Cannot transfer to the same person.\n");
    return ;
printf("\t\tEnter amount to transfer: ");
scanf("%lf", &amount);
if (amount <= 0) {
    printf("\t\tInvalid amount.\n");
    return;
if (customers[indexSender].balance < amount){</pre>
    printf("\t\tError: You don't have enough money.\n");
    return;
customers[indexSender].balance -= amount;
customers[indexRecievier].balance += amount;
printf("\t\tTransfer sucsessful.\n");
printf("\t\tFrom: %s (ID: %d)\n", customers[indexSender].name, customers[indexSender].id);
printf("\t\tTo: %s (ID: %d)\n", customers[indexRecievier].name, customers[indexRecievier].id);
printf("\t\tAmount: $%.2f\n", amount);
printf("\t\tNew balance - %s: $%.2f\n", customers[indexSender].name, customers[indexSender].balance);
printf("\t\tNew balance - %s: $%.2f\n", customers[indexRecievier].name, customers[indexRecievier].balance);
```

```
void withdrawMoney() {
    double amount;
    int index;
    int tryCount=0;
    while(1) {
        if (tryCount==3){
            printf("\t\tTry again later \n");
            return;
        printf("\t\tEnter Customer ID: ");
        scanf("%d", &searchId);
        tryCount++;
        index = findCustomerById(searchId);
        if (index == -1) {
            printf("\t\tCustomer not found.\n");
            continue;
        }else {
            break;
```



Withdraw

```
printf("\t\tEnter amount to withdraw: ");
scanf("%lf", &amount);
if (amount <= 0) {</pre>
   printf("\t\tInvalid amount.\n");
    return;
if (customers[index].balance < amount){</pre>
   printf("\t\tError: You don't have enough money.\n");
   return;
customers[index].balance -= amount;
saveCustomers();
printf("\t\tWithdraw successful. New balance: $%.2f\n", customers[index].balance);
```

Save customers





Find customer

```
int findCustomerById(int id) {
    for (int i = 0; i < customerCount; i++) {
        if (customers[i].id == id) return i;
    }
    return -1;
}</pre>
```





3rd

functions.h





```
#ifndef FUNCTIONS_H
                         // If FUNCTIONS_H is not defined
#define FUNCTIONS_H
                         // Define it now
void create_customer();
void edit_customer();
void print_customer_data();
      delete_customer();
void deposite();
void transfer_money();
void withdrawMoney();
void loadCustomers();
void saveCustomers();
void depositMoney();
bool idCheck (int id);
#endif
                         // End of guard
```



Thank you!