Group Actuvity-02

Project Development

Banking Management System

Group-08(D2)

Name: Shahriar Rashid Khan   Name: Ridwan Mahmud

 Id: 0242320005241283   Id: 0242320005341525

Reg.: 232-35-283   Reg.: 232-35-525

Batch: 41 Section: D2   Batch: 41 Section: D2

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Course Teacher Name: Mr. Suprove Chandra Sarkar

Designation: Lecturer

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Completed Project Features

Main Function : Provides interface for User and Admin menu: **int main**(){}.

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1.4 **Deposit Functionality:**

1.5 **Withdraw Money**

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1.10 **Logout.**

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2.2 **Update User Information:**

2.3 **Delete User account:**

2.4 **Transaction Report:**

2.5 **Logout.**

Main Menu Interface:

The main function code:-

```c
int main() {
    system("color e0");
    FILE *info;
    struct user_account user, check;
    struct Admin admin,ad_check;
    int n,m;

    while (1) {
        printf("      \n\t\t\t\tBanking Management System     \n\n");
        printf("\t\t\t1.User\n\t\t\t2.Admin\n");
        printf("\n\tEnter your choice: ");
        if (scanf("%d", &n) != 1) {
            printf("\n\tInvalid input! Please enter numbers only.\n");
            while (getchar() != '\n');
            continue;
        }
        switch(n){
            case 1:
                user_menu();
                break;

            case 2:
                printf("\n\tEnter Admin passsword: ");
                scanf("%s", &ad_check.pass_admin);
```

```c
        if((strcmp(ad_check.pass_admin , "pass") == 0)){

            system("cls");

            adminMenu();

        }

        else{

            printf("\n\t\tInvalid Password,try again.");

            delay(2);

            system("cls");

        }

        break;


    default :

        printf("\n\n\t\t\t\tInvalid option.\n\t\t\t\t\tTry again.....\n");

        break;

    }

  }

  return 0;

}Output:
```



```
                      Banking Management System

                  1.User
                  2.Admin

    Enter your choice: 1_
```

1.1.User menu:

The code:-

```c
void user_menu(){
        int m;
        FILE *info;
        struct user_account user,check;
                system("cls");
                printf("      \n\t\t\t\tBanking Management System     \n\n");
                printf("\n\t\t\t1. Login");
                printf("\n\t\t\t2. Create Account\n");
                printf("\t\t\t3. Exit \n");

                printf("\n\tEnter your choice: ");
                scanf("%d", &m);

                switch (m) {
                case 1:
                usr_menu:
                    info = fopen("info.txt","r");
                    printf("\n\t\tEnter Account number: ");
                    scanf("%d",&check.id);
```

```c
                fflush(stdin);

                printf("\n\t\tEnter Password :");

                scanf("%s",check.password);

                while(fscanf(info,"%s                %d                %s
%f",user.usr_name,&user.id,&user.password,&user.balance)!= EOF){

                        if( (check.id == user.id) && (strcmp(check.password,
user.password) == 0)){

                                printf("\n\t\tLogin        successful!       Welcome,      %s.\n\n",
user.usr_name);

                                fclose(info);

                                delay(2);

                                login(user);

                        }

                }

                printf("\n\t\tLogin Failed! Re-enter ID and Password.\n\n");

                fclose(info);

                delay(2);

                goto usr_menu;

                break;
        case 2:

                createAccount();

                user_menu();

                break;
```

```c
        case 3:

            printf("\n\t\tExiting ....\n\n");

            delay(2);

            system("cls");

            main();

            break;

        default:

            printf("\n\t\t\tInvalid choice! Please try again.\n");

            delay(2);

            user_menu();

        }

    }
```

The Output:-


```
                    Banking Management System


            1. Login
            2. Create Account
            3. Exit

   Enter your choice:
```

1.2 Account Registration: Account is created by generating random numbers for the user, the user has to input his/her name and password.

The function code:-

```c
int generateRandomAccountNumber() {
    int accountNumber;
    do {
        accountNumber = (rand() % (MAX_ACCOUNT_NUMBER - MIN_ACCOUNT_NUMBER + 1)) + MIN_ACCOUNT_NUMBER;
    } while (accountExists(accountNumber));
    return accountNumber;
}


void createAccount() {
    FILE *info;
    struct user_account new_user;
    info = fopen("info.txt", "a");

    if (info == NULL) {
        printf("Error opening file!\n");
        return;
    }

    printf("\n\t      Add record     \n");
    printf("\tEnter name: ");
    getchar();
    scanf("%s", new_user.usr_name);

    new_user.id = generateRandomAccountNumber();
```

```c
    printf("\n\tGenerated Account Number: %d\n", new_user.id);


    while (1) {
        printf("\tEnter Password, max 8 characters: ");
        scanf("%s", new_user.password);
        int len = strlen(new_user.password);


        if (len <= 8) {
            new_user.balance = 0;
            fprintf(info, "%s %d %s %.2f\n", new_user.usr_name, new_user.id,
new_user.password, new_user.balance);


            printf("\n\t\tAccount Created Successfully\n");
            break;
        } else {
            printf("\n\t\tPassword exceeded maximum length! Please set within 8
characters.\n");
        }
    }


    fclose(info);
    delay(2);
}
```

Input and Output:

```
                    Banking Management System


              1. Login
              2. Create Account
              3. Exit

Enter your choice: 2

         Add record
Enter name: adad

Generated Account Number: 9500
Enter Password, max 8 characters: 1234

          Account Created Successfully
```

1.3 Login Function codes and Input, Output

1.3 Account login: After creating the account the user uses the given account number and password to enter the main functionality of the banking system.

The code:-

```c
void login(struct user_account user){

    FILE *info;

    struct user_account check;

    int m,id;

    float balance;


    login_menu:

        system("cls");

        printf("      \n\t\t\t\tBanking Management System     \n\n");

        printf("\t\t\t1. Deposit Money\n");

        printf("\t\t\t2. Withdraw Money\n");

        printf("\t\t\t3. Send Money\n");

        printf("\t\t\t4. Check Balance\n");

        printf("\t\t\t5. Account Details\n");

        printf("\t\t\t6. Logout\n");

        printf("\n\tEnter your choice: ");

        scanf("%d", &m);


    switch(m){

        case 1:
```

```c
            printf("\t\tEnter money to deposit : ");

            scanf("%f",&balance);

            depositMoney(user.id,balance);

            printf("\n\t\tDiposit successfull.\n\n");

            delay(2);

            goto login_menu;

            break;

    case 2:

            printf("\n\n\tWithdraw money :\n");

            printf("\n\tEnter money to withdraw : ");

            scanf("%f",&balance);

            withdrawMoney(user.id,balance);

            printf("\n\n\t\tSuccessfully Withdrawed money !\n");

            delay(2);

            goto login_menu;

            break;


    case 3:

            printf("\n\n\tSend money\n");

            printf("\t\tEnter Account number : ");

            scanf("%d",&id);

            printf("\t\tEnter money to send : ");
```

```c
            scanf("%f",&balance);


            sendMoney(user.id, id, balance);


            delay(2);

            goto login_menu;

            break;

        case 4:

            checkBalance(user.id);

            delay(2);

            goto login_menu;

            break;

        case 5:

            accountDetails(user.id);

            goto login_menu;

            break;

        case 6:

            printf("\n\t\t\t\tExiting...\n");

            delay(2);

            user_menu();

            break;

        default:
```

```
        printf("\tInvalid choice! Please try again.\n");

        delay(1);

        goto login_menu ;

        break;

    }

}
```

Input and Output:-

```
              Banking Management System


                 1. Login
                 2. Create Account
                 3. Exit

    Enter your choice: 1

            Enter Account number: 9500

            Enter Password :1234

            Login successful! Welcome, adad.
```

1.4 Deposit Function codes
and Input, Output

1.4 Deposit Money:
The code:-

```
void depositMoney(int id,float balance){
    char trans_type[20] = "DIPOSIT-";
    FILE *info;
```

```c
FILE *newinfo;

FILE *trans;

trans = fopen("transaction.txt","a");

info = fopen("info.txt","r");

newinfo = fopen("newinfo.txt","w");

        while(fscanf(info,"%s %d %s %f",user.usr_name,&user.id,&user.password,&user.balance)!= EOF){

            if(id == user.id){

                user.balance += balance;

                fprintf(trans,"%s %d %s %.2f %s\n",user.usr_name,user.id,trans_type,balance,timeDate());

            }

            fprintf(newinfo,"%s %d %s %.2f\n",user.usr_name,user.id,user.password,user.balance);


        }
    fclose(trans);

    fclose(newinfo);

    fclose(info);


    remove("info.txt");

    rename("newinfo.txt", "info.txt");
}
```

Input and Output:-

```
                    Banking Management System

                 1. Deposit Money
                 2. Withdraw Money
                 3. Send Money
                 4. Check Balance
                 5. Account Details
                 6. Logout

Enter your choice: 1
          Enter money to deposit : 10000

          Diposit successfull.
```

1.5 Withdraw Function codes and Input, Output

1.5 Withdraw Money: Users can withdraw money from an account with balance checks to prevent overdrafts.

The code:-

```c
void withdrawMoney(int id,double balance){

    struct user_account user;

    char trans_type[20] = "WITHDRAW";

    FILE *info,*newinfo,*trans;

    trans = fopen("transaction.txt","a");

    info = fopen("info.txt","r");

    newinfo = fopen("newinfo.txt","w");


    while(fscanf(info,"%s %d %s %f",user.usr_name,&user.id,&user.password,&user.balance)!= EOF){

        if(id == user.id){

            if(balance > user.balance){

                printf("\n\t\t\tInsufficient Balance!!\n\n");

            }else{

                user.balance -= balance;

                fprintf(trans,"%s %d %s %.2f %s\n",user.usr_name,user.id,trans_type,balance,timeDate());

            }

        }

        fprintf(newinfo,"%s %d %s %.2f\n",user.usr_name,user.id,user.password,user.balance);

    }

    fclose(trans);

    fclose(newinfo);

    fclose(info);


    remove("info.txt");

    rename("newinfo.txt","info.txt");
```

}

Input and Output:-

```
                    Banking Management System

            1. Deposit Money
            2. Withdraw Money
            3. Send Money
            4. Check Balance
            5. Account Details
            6. Logout

Enter your choice: 2


Withdraw money :

Enter money to withdraw : 699


        Successfully Withdrawed money !
```

1.6 Send money Function codes and Input, Output

1.6 Send Money: Allows user to transact to another account. It enables the user to send money.

Function code:-

```
void sendMoney(int sen_id, int rec_id, float balance) {
```

```c
    struct user_account user;

    FILE *info;

    info = fopen("info.txt", "r");

    while (fscanf(info, "%s %d %s %f", user.usr_name, &user.id, &user.password,
&user.balance) != EOF) {

        if(sen_id == user.id){

            fclose(info);

            if(balance > user.balance){

                printf("\n\t\t\tInsufficient Balance!!\n\n");

            }else{

                if(accountExists(rec_id)){

                    withdrawMoney(sen_id,balance);

                    depositMoney(rec_id,balance);

                    printf("\n\n\t\tSuccessfully Sent money...\n\n");

                }
                else{

                    printf("\n\t\tRecipient account not found.\n\n");

                }

            }

        }

    }

}
```

Input and Output:-

```
                    Banking Management System

                1. Deposit Money
                2. Withdraw Money
                3. Send Money
                4. Check Balance
                5. Account Details
                6. Logout

Enter your choice: 3


Send money
        Enter Account number : 3
        Enter money to send : 2099


        Successfully Sent money...
```

1.7 Check Balance Function codes and Input, Output

1.7 Check Balance: Displays the current balance of a specified account.

The code:-

```c
void checkBalance(int id){

    struct user_account user;

    FILE *info;

    info = fopen("info.txt","r");

    printf("\n\t\tCheck Balance\t\n");


    while(fscanf(info,"%s %d %s %f",user.usr_name,&user.id,&user.password,&user.balance)!= EOF){

        if(id == user.id){

            printf("\n\t\t%s,Your current Balance is : %.2f\n\n\n",user.usr_name,user.balance);

            break;

        }

    }

    fclose(info);}
```

}**Input and Output:-**

```
                Banking Management System

            1. Deposit Money
            2. Withdraw Money
            3. Send Money
            4. Check Balance
            5. Account Details
            6. Logout

     Enter your choice: 4

          Check Balance

          adad,Your current Balance is : 9301.00

```

1.8 Account Details: Stores a history of transactions, allowing users to track deposits and withdrawals for each account.

Function code:-

```c
void accountDetails(int id) {

    struct user_account user;

    FILE *info, *trans;

    if(accountExists(id) == 0){

        printf("\n\n\t\tAccount Doesnot Exist....\n");

        delay(2);

    }else{


    info = fopen("info.txt", "r");

    while (fscanf(info, "%s %d %s %f", user.usr_name, &user.id, &user.password, &user.balance) != EOF) {

        if (id == user.id) {

            printf("\n\n\t\t Account Details :\n\n\t\t\t  Name          : %s\n\t\t\t  Account Number : %d\n\t\t\t  Account Balance: %.2f\n",user.usr_name,user.id,user.balance);

            break;

        }

    }

    fclose(info);


    char time[50], name[20];

    float balance;

    int p_id, flag = 1;

    char trans_type[20];
```

```c
        trans = fopen("transaction.txt", "r");

        printf("\n\n\t\t  Transaction Details:\n\n");

        while (fscanf(trans, "%s %d %s %f", name, &p_id, trans_type, &balance) !=
EOF) {

            fgets(time, sizeof(time), trans);

            time[strcspn(time, "\n")] = 0;

            if (id == p_id) {

                printf("\t\t%-10s %.2f at %s\n", trans_type, balance, time);

                flag = 0;

            }

        }

        if(flag){

            printf("\n\t\t\tNo transaction yet.\n");

        }

        fclose(trans);

        }

        printf("\n\t Press Enter to exit.");

        getch();

        system("cls");

    }
```

Input and output:-

```
                    Banking Management System

                    1. Deposit Money
                    2. Withdraw Money
                    3. Send Money
                    4. Check Balance
                    5. Account Details
                    6. Logout

Enter your choice: 5


        Account Details :

                Name            : adad
                Account Number : 9500
                Account Balance: 7202.00


        Transaction Details:

    DIPOSIT-    10000.00 at  - 23:47:53 - 13/11/2024
    WITHDRAW    699.00 at   - 23:48:46 - 13/11/2024
    WITHDRAW    2099.00 at  - 23:54:17 - 13/11/2024

Press Enter to exit.
```

1.9 File based System

info.txt - Notepad

File Edit Format View Help

```
abdul 1 2 0.00
www 2 1234 200.99
rahim 3 1234 6297.00
rahim 4 1234 498.01
David 5 dq1234 0.00
Rimon 6 1234 201.00
```

transaction.txt - Notepad

File Edit Format View Help

```
komol 1 DIPOSIT- 100.00 - 10:19:38 - 27/10/2024
Karim 2 RECEIVE 1234.00 - 10:19:51 - 27/10/2024
Karim 2 RECEIVE 12345.00 - 10:23:13 - 27/10/2024
komol 1 WITHDRAW 100.00 - 10:24:41 - 27/10/2024
Karim 2 RECEIVE 100.00 - 10:24:41 - 27/10/2024
Karim 2 WITHDRAW 555.00 - 10:40:03 - 27/10/2024
karan 3 RECEIVE 555.00 - 10:40:03 - 27/10/2024
Karim 2 RECEIVE 200.00 - 10:44:49 - 27/10/2024
komol 1 DIPOSIT- 800.00 - 12:09:23 - 30/10/2024
komol 1 DIPOSIT- 500.00 - 13:07:31 - 30/10/2024
komol 1 WITHDRAW 500.00 - 13:09:15 - 30/10/2024
karan 3 DIPOSIT- 500.00 - 13:09:15 - 30/10/2024
komol 1 WITHDRAW 100.00 - 13:16:21 - 30/10/2024
karan 3 DIPOSIT- 100.00 - 13:16:21 - 30/10/2024
tomal 1 WITHDRAW 500.00 - 13:18:32 - 02/11/2024
karan 3 DIPOSIT- 500.00 - 13:18:32 - 02/11/2024
tomal 1 DIPOSIT- 10000.00 - 00:35:54 - 04/11/2024
tomal 1 WITHDRAW 5000.00 - 00:36:16 - 04/11/2024
tomal 1 WITHDRAW 2000.00 - 00:37:43 - 04/11/2024
Karim 2 DIPOSIT- 2000.00 - 00:37:43 - 04/11/2024
Rimon 6 DIPOSIT- 500.00 - 13:42:24 - 10/11/2024
Rimon 6 WITHDRAW 299.00 - 13:46:21 - 10/11/2024
rahim 4 DIPOSIT- 299.00 - 13:46:21 - 10/11/2024
www 2 DIPOSIT- 400.00 - 13:48:35 - 10/11/2024
www 2 WITHDRAW 199.01 - 13:48:53 - 10/11/2024
rahim 4 DIPOSIT- 199.01 - 13:48:53 - 10/11/2024
adad 9500 DIPOSIT- 10000.00 - 23:47:53 - 13/11/2024
adad 9500 WITHDRAW 699.00 - 23:48:46 - 13/11/2024
adad 9500 WITHDRAW 2099.00 - 23:54:17 - 13/11/2024
rahim 3 DIPOSIT- 2099.00 - 23:54:17 - 13/11/2024
```

1.10 Logout Feature

1.10 Logout:

```
              Banking Management System

        1. Deposit Money
        2. Withdraw Money
        3. Send Money
        4. Check Balance
        5. Account Details
        6. Logout

   Enter your choice: 6

                Exiting...
```

Exit User Menu:

```
              Banking Management System

        1. Login
        2. Create Account
        3. Exit

   Enter your choice:
```

Admin login:

```
                    Banking Management System

              1.User
              2.Admin

   Enter your choice: 2

   Enter Admin passsword: pass_
```

Admin Menu:-
Function Code:-

```c
void adminMenu(){

    int m,id;

    while(1){

        printf("      \n\t\t\t\tBanking Management System    \n\n");

        printf("\t\t\tAdmin Menu \n\n");

        printf("\t\t1. See User Information\n");

        printf("\t\t2. Update User Information\n");

        printf("\t\t3. Delete User account\n");

        printf("\t\t4. Transaction Report \n");

        printf("\t\t5. Logout \n");
```

```c
printf("\nEnter your choice: ");

scanf("%d", &m);

switch(m){

    case 1:

        printf("\n\t\tEnter account number : ");

        scanf("%d",&id);

        //printf("      \n\t\t\t\tBanking Management System     \n\n");


        accountDetails(id);

        //getch();

        system("cls");

        break;


    case 2:

        updateInfo();

        delay(2);

        system("cls");

        break;


    case 3:

        deleteAccount();

        system("cls");

        break;
```

```c
        case 4:

            system("cls");

            printf("      \n\t\t\t\tBanking Management System     \n\n");

            report();

            break;


        case 5:

            printf("\n\t\tExiting ...\n\n");

            delay(2);

            system("cls");

            main();

            break;


        default:

            printf("\t\tInvalid choice! Please try again.\n");

            delay(2);

            system("cls");

            adminMenu();

            break;
    }
    system("cls");

  }
}
```
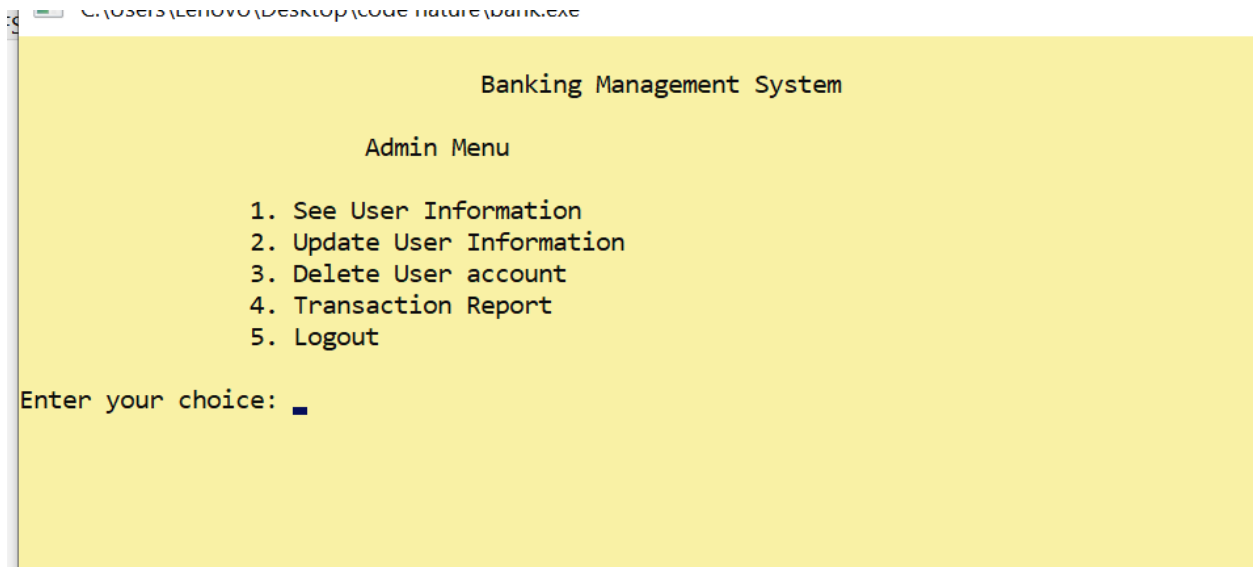
Code output:-

```
C:\Users\Lenovo\Desktop\code nature\bank.exe

                    Banking Management System

            Admin Menu

        1. See User Information
        2. Update User Information
        3. Delete User account
        4. Transaction Report
        5. Logout

Enter your choice: _
```

2.1 Account Details Function codes and Input, Output

2.1 User Information Checking Functionality: Admin can check the user information by their account number.

Function code:-

```c
void accountDetails(int id) {
    struct user_account user;
    FILE *info, *trans;
    if(accountExists(id) == 0){
        printf("\n\n\t\tAccount Doesnot Exist....\n");
        delay(2);
    }else{

    info = fopen("info.txt", "r");
    while (fscanf(info, "%s %d %s %f", user.usr_name, &user.id,
&user.password, &user.balance) != EOF) {
        if (id == user.id) {
            printf("\n\n\t\t Account Details :\n\n\t\t\t  Name           : %s\n\t\t\t
Account Number : %d\n\t\t\t  Account Balance:
%.2f\n",user.usr_name,user.id,user.balance);
            break;
        }
    }
    fclose(info);

    char time[50], name[20];
    float balance;
    int p_id, flag = 1;
    char trans_type[20];

    trans = fopen("transaction.txt", "r");
    printf("\n\n\t\t Transaction Details:\n\n");
    while (fscanf(trans, "%s %d %s %f", name, &p_id, trans_type, &balance) !=
EOF) {
        fgets(time, sizeof(time), trans);
        time[strcspn(time, "\n")] = 0;
        if (id == p_id) {
            printf("\t\t%-10s %.2f at %s\n", trans_type, balance, time);
            flag = 0;
        }
    }
    if(flag){
        printf("\n\t\t\tNo transaction yet.\n");
```

```
        }
        fclose(trans);
        }
        printf("\n\t Press Enter to exit.");
        getch();
        system("cls");
    }
```

Input   and   Output:-

```
                    Banking Management System

                Admin Menu

            1. See User Information
            2. Update User Information
            3. Delete User account
            4. Transaction Report
            5. Logout

Enter your choice: 1

            Enter account number : 9500_
```

```
                    Banking Management System


        Account Details :

                Name            : adad
                Account Number : 9500
                Account Balance: 7202.00


        Transaction Details:

        DIPOSIT-   10000.00 at  - 23:47:53 - 13/11/2024
        WITHDRAW   699.00 at   - 23:48:46 - 13/11/2024
        WITHDRAW   2099.00 at  - 23:54:17 - 13/11/2024

    Press Enter to exit.
```

2.2 Update Info Function codes and Input, Output

Update User Information: Update the user name from the account.

Function code:-

```c
void updateInfo() {
    struct user_account user, check;
    FILE *info, *newinfo;
    int flag = 1;
    info = fopen("info.txt", "r");
    newinfo = fopen("newinfo.txt", "w");

    printf("\n\nEnter the account number of the user whose info you want to change: ");
    scanf("%d", &check.id);


    while (fscanf(info, "%s %d %s %f", user.usr_name, &user.id, user.password, &user.balance) != EOF) {
        if (check.id == user.id) {
            flag = 0;
            printf("\n\n\t\tEnter account holder's correct name : ");

            getchar();
            fgets(check.usr_name, sizeof(check.usr_name), stdin);
            if (check.usr_name[strlen(check.usr_name) - 1] == '\n') {
                check.usr_name[strlen(check.usr_name) - 1] = '\0';
            }
            strcpy(user.usr_name, check.usr_name);

            printf("\n\t\tName changed successfully.\n\n");
        }
        fprintf(newinfo, "%s %d %s %.2f\n", user.usr_name, user.id, user.password, user.balance);

    }
    if(flag){
        printf("\n\t\tAccount doesn't exists....\n\n");
        delay(2);
    }

    fclose(newinfo);
    fclose(info);
    remove("info.txt");
    rename("newinfo.txt", "info.txt");
}
```

Input Output:-

```
                    Banking Management System

                Admin Menu

          1. See User Information
          2. Update User Information
          3. Delete User account
          4. Transaction Report
          5. Logout

Enter your choice: 2


Enter the account number of the user whose info you want to change: 9500


          Enter account holder's correct name : md.asad

          Name changed successfully.
```

```
                    Banking Management System


          Account Details :

                    Name           : md.asad
                    Account Number : 9500
                    Account Balance: 7202.00


             Transaction Details:

          DIPOSIT-    10000.00 at  - 23:47:53 - 13/11/2024
          WITHDRAW    699.00 at  - 23:48:46 - 13/11/2024
          WITHDRAW    2099.00 at  - 23:54:17 - 13/11/2024

          Press Enter to exit.
```

2.3 Delete User account:

Code:-

```c
void deleteAccount() {
    struct user_account user;
    int id;
    FILE *info, *newinfo;
    info = fopen("info.txt", "r");
    newinfo = fopen("newinfo.txt", "w");

    printf("\n\tEnter User Account number : ");
    scanf("%d", &id);

    int accountFound = 1;

    while (fscanf(info, "%s %d %s %f", user.usr_name, &user.id,
user.password, &user.balance) != EOF) {
        if (id == user.id) {
            accountFound = 0;
            continue;
        }
        fprintf(newinfo, "%s %d %s %.2f\n", user.usr_name, user.id,
user.password, user.balance);
    }
    if(accountFound){
        printf("\n\n\t\tAccount doesn't Exist.\n");
    }
    else{
        printf("\n\n\t\tSuccessfully Deleted Account!\n");
    }


    fclose(newinfo);
    fclose(info);
    remove("info.txt");
    rename("newinfo.txt", "info.txt");
    remove("newinfo.txt");

    delay(2);
}
```

Input and Output:-

```
                          Banking Management System

                     Admin Menu

                 1. See User Information
                 2. Update User Information
                 3. Delete User account
                 4. Transaction Report
                 5. Logout

Enter your choice: 3

     Enter User Account number : 9500


          Successfully Deleted Account!
```

```
                    Banking Management System

                         Admin Menu

             1. See User Information
             2. Update User Information
             3. Delete User account
             4. Transaction Report
             5. Logout

Enter your choice: 1

             Enter account number : 9500


             Account Doesnot Exist....

         Press Enter to exit._
```

2.4 Transaction Report
Function codes and Input,

2.4 Transaction Report:
Function code:-

```c
void report(){
    FILE *trans;
    char trans_type[20],time[70],name[20];
    float balance;
    int id;
    trans = fopen("transaction.txt","r");
    printf("\n\t\t Transaction report :\n");
    printf("\n\tName\tAc.No \tTrans.Type   \tMoney      Time\n\n");
    while(fscanf(trans,"%s %d %s %f",name,&id ,trans_type, &balance) !=
EOF){
        fgets(time, sizeof(time), trans);
```

```
        time[strcspn(time, "\n")] = 0;
        printf("\t%s   %d        %s        %.2f       %s\n",name,id,trans_type,
balance, time);
    }
    fclose(trans);
    printf("\n\t\tEnter to exit.");
    getch()
```

Input and output:-

```
                    Banking Management System

                Admin Menu

            1. See User Information
            2. Update User Information
            3. Delete User account
            4. Transaction Report
            5. Logout

Enter your choice: 4
```

```
                    Banking Management System

        Transaction report :

Name      Ac.No    Trans.Type      Money          Time

komol     1        DIPOSIT-         100.00         - 10:19:38 - 27/10/2024
Karim     2        RECEIVE         1234.00         - 10:19:51 - 27/10/2024
Karim     2        RECEIVE        12345.00          - 10:23:13 - 27/10/2024
komol     1        WITHDRAW         100.00         - 10:24:41 - 27/10/2024
Karim     2        RECEIVE          100.00        - 10:24:41 - 27/10/2024
Karim     2        WITHDRAW         555.00         - 10:40:03 - 27/10/2024
karan     3        RECEIVE          555.00        - 10:40:03 - 27/10/2024
Karim     2        RECEIVE          200.00        - 10:44:49 - 27/10/2024
komol     1        DIPOSIT-         800.00         - 12:09:23 - 30/10/2024
komol     1        DIPOSIT-         500.00         - 13:07:31 - 30/10/2024
komol     1        WITHDRAW         500.00         - 13:09:15 - 30/10/2024
karan     3        DIPOSIT-         500.00         - 13:09:15 - 30/10/2024
komol     1        WITHDRAW         100.00         - 13:16:21 - 30/10/2024
karan     3        DIPOSIT-         100.00         - 13:16:21 - 30/10/2024
tomal     1        WITHDRAW         500.00         - 13:18:32 - 02/11/2024
karan     3        DIPOSIT-         500.00         - 13:18:32 - 02/11/2024
tomal     1        DIPOSIT-       10000.00          - 00:35:54 - 04/11/2024
tomal     1        WITHDRAW        5000.00         - 00:36:16 - 04/11/2024
tomal     1        WITHDRAW        2000.00         - 00:37:43 - 04/11/2024
Karim     2        DIPOSIT-        2000.00         - 00:37:43 - 04/11/2024
Rimon     6        DIPOSIT-         500.00         - 13:42:24 - 10/11/2024
Rimon     6        WITHDRAW         299.00         - 13:46:21 - 10/11/2024
rahim     4        DIPOSIT-         299.00         - 13:46:21 - 10/11/2024
www       2        DIPOSIT-         400.00        - 13:48:35 - 10/11/2024
www       2        WITHDRAW         199.01        - 13:48:53 - 10/11/2024
rahim     4        DIPOSIT-         199.01         - 13:48:53 - 10/11/2024
adad      9500       DIPOSIT-      10000.00          - 23:47:53 - 13/11/2024
adad      9500       WITHDRAW        699.00         - 23:48:46 - 13/11/2024
adad      9500       WITHDRAW       2099.00         - 23:54:17 - 13/11/2024
rahim     3        DIPOSIT-        2099.00         - 23:54:17 - 13/11/2024

        Enter to exit.
```

2.5 LOGOUT FEATURE AND RETURN TO MAIN MENU

Logout:

```
                    Banking Management System

            Admin Menu

        1. See User Information
        2. Update User Information
        3. Delete User account
        4. Transaction Report
        5. Logout
:nter your choice: 5

            Exiting ...
```

Return to main interface:

```
                Banking Management System

            1.User
            2.Admin

    Enter your choice: _
```