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// C program to implement
// the above approach
#include <conio.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <windows.h>

// Declaring all the functions
void checkbalance(char*);
void transfermoney(void);
void display(char*);
void person(char*);
void login(void);
void loginsu(void);
void account(void);
void accountcreated(void);
void afterlogin(void);
void logout(void);

// Declaring gotoxy
// function for setting
// cursor position
void gotoxy(int x, int y)
{
	COORD c;
	c.X = x;
	c.Y = y;

	SetConsoleCursorPosition(
		GetStdHandle(STD_OUTPUT_HANDLE), c);
}

// Creating a structure to store
// data of the user
struct pass {
	char username[50];
	int date, month, year;
	char pnumber[15];
	char adharnum[20];
	char fname[20];
	char lname[20];
	char fathname[20];
	char mothname[20];
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        char address[50];
        char typeaccount[20];
};

// Structure to keep track
// of amount transfer
struct money {
        char usernameto[50];
        char userpersonfrom[50];
        long int money1;
};

struct userpass {
        char password[50];
};

// Driver Code
int main()
{
        int i, a, b, choice;
        int passwordlength;

        gotoxy(20, 3);

        // Creating a Main
        // menu for the user
        printf("WELCOME TO BANK ACCOUNT SYSTEM\n\n");
        gotoxy(18, 5);

        printf("**********************************");
        gotoxy(25, 7);

        printf("DEVELOPER-Naman kumar");

        gotoxy(20, 10);
        printf("1.... CREATE A BANK ACCOUNT");

        gotoxy(20, 12);
        printf("2.... ALREADY A USER? SIGN IN");
        gotoxy(20, 14);
        printf("3.... EXIT\n\n");

        printf("\n\nENTER YOUR CHOICE..");
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	scanf("%d", &choice);

	switch (choice) {
	case 1:
		system("cls");
		printf("\n\n USERNAME 50 CHARACTERS MAX!!");
		printf("\n\n PASSWORD 50 CHARACTERS MAX!!");
		account();
		break;

	case 2:
		login();
		break;

	case 3:
		exit(0);
		break;

		getch();
	}
}

// Function to create accounts
// of users
void account(void)
{
	char password[20];
	int passwordlength, i, seek = 0;
	char ch;
	FILE *fp, *fu;
	struct pass u1;
	struct userpass p1;

	struct userpass u2;

	// Opening file to
	// write data of a user
	fp = fopen("username.txt", "ab");

	// Inputs
	system("cls");
	printf("\n\n!!!!!CREATE ACCOUNT!!!!!");

	printf("\n\nFIRST NAME..");
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scanf("%s", &u1.fname);

printf("\n\n\nLAST NAME..");
scanf("%s", &u1.lname);

printf("\n\nFATHER's NAME..");
scanf("%s", &u1.fathname);

printf("\n\nMOTHER's NAME..");
scanf("%s", &u1.mothname);

printf("\n\nADDRESS..");
scanf("%s", &u1.address);

printf("\n\nACCOUNT TYPE");
scanf("%s", &u1.typeaccount);

printf("\n\nDATE OF BIRTH..");
printf("\nDATE-");
scanf("%d", &u1.date);
printf("\nMONTH-");
scanf("%d", &u1.month);
printf("\nYEAR-");
scanf("%d", &u1.year);

printf("\n\nADHAR NUMBER");
scanf("%s", u1.adharnum);

printf("\n\nPHONE NUMBER");
scanf("%s", u1.pnumber);

printf("\n\nUSERNAME.. ");
scanf("%s", &u1.username);

printf("\n\nPASSWORD..");

// Taking password in the form of
// stars
for (i = 0; i < 50; i++) {
        ch = getch();
        if (ch != 13) {
                password[i] = ch;
                ch = '*';
                printf("%c", ch);
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                }
                else
                        break;
        }

        // Writing to the file
        fwrite(&u1, sizeof(u1),
                1, fp);

        // Closing file
        fclose(fp);

        // Calling another function
        // after successful creation
        // of account
        accountcreated();
}

// Successful account creation
void accountcreated(void)
{
        int i;
        char ch;
        system("cls");
        printf(
                "PLEASE WAIT....\n\nYOUR DATA IS PROCESSING....");
        for (i = 0; i < 200000000; i++) {
                i++;
                i--;
        }

        gotoxy(30, 10);

        printf("ACCOUNT CREATED SUCCESSFULLY....");
        gotoxy(0, 20);

        printf("Press enter to login");

        getch();
        login();
}

// Login function to check
// the username of the user
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```
void login(void)
{
	system("cls");

	char username[50];
	char password[50];

	int i, j, k;
	char ch;
	FILE *fp, *fu;
	struct pass u1;
	struct userpass u2;

	// Opening file of
	// user data
	fp = fopen("username.txt",
			"rb");

	if (fp == NULL) {
		printf("ERROR IN OPENING FILE");
	}
	gotoxy(34, 2);
	printf(" ACCOUNT LOGIN ");
	gotoxy(7, 5);
	printf("**********************************************"
		"*********************************");

	gotoxy(35, 10);
	printf("==== LOG IN ====");

	// Take input
	gotoxy(35, 12);
	printf("USERNAME.. ");
	scanf("%s", &username);

	gotoxy(35, 14);
	printf("PASSWORD..");

	// Input the password
	for (i = 0; i < 50; i++) {
		ch = getch();
		if (ch != 13) {
			password[i] = ch;
			ch = '*';
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                printf("%c", ch);
            }

            else
                break;
        }

        // Checking if username
        // exists in the file or not
        while (fread(&u1, sizeof(u1),
                     1, fp)) {
            if (strcmp(username,
                       u1.username)
                == 0) {
                loginsu();
                display(username);
            }
        }

        // Closing the file
        fclose(fp);
}

// Redirect after
// successful login
void loginsu(void)
{
        int i;
        FILE* fp;
        struct pass u1;
        system("cls");
        printf("Fetching account details.....\n");
        for (i = 0; i < 20000; i++) {
            i++;
            i--;
        }

        gotoxy(30, 10);
        printf("LOGIN SUCCESSFUL....");
        gotoxy(0, 20);
        printf("Press enter to continue");

        getch();
}
```

```
// Display function to show the
// data of the user on screen
void display(char username1[])
{
	system("cls");
	FILE* fp;
	int choice, i;
	fp = fopen("username.txt", "rb");
	struct pass u1;

	if (fp == NULL) {
		printf("error in opening file");
	}

	while (fread(&u1, sizeof(u1),
				1, fp)) {
		if (strcmp(username1,
				u1.username)
			== 0) {
			gotoxy(30, 1);
			printf("WELCOME, %s %s",
				u1.fname, u1.lname);
			gotoxy(28, 2);
			printf(".....");
			gotoxy(55, 6);
			printf("==== YOUR ACCOUNT INFO ====");
			gotoxy(55, 8);
			printf("**************************");
			gotoxy(55, 10);
			printf("NAME..%s %s", u1.fname,
				u1.lname);

			gotoxy(55, 12);
			printf("FATHER's NAME..%s %s",
				u1.fathname,
				u1.lname);

			gotoxy(55, 14);
			printf("MOTHER's NAME..%s",
				u1.mothname);

			gotoxy(55, 16);
			printf("ADHAR CARD NUMBER..%s",
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                        u1.adharnum);

                gotoxy(55, 18);
                printf("MOBILE NUMBER..%s",
                        u1.pnumber);

                gotoxy(55, 20);
                printf("DATE OF BIRTH.. %d-%d-%d",
                        u1.date, u1.month, u1.year);

                gotoxy(55, 22);
                printf("ADDRESS..%s", u1.address);

                gotoxy(55, 24);
                printf("ACCOUNT TYPE..%s",
                        u1.typeaccount);
        }
}

fclose(fp);

gotoxy(0, 6);

// Menu to perform different
// actions by user
printf(" HOME ");
gotoxy(0, 7);
printf("******");
gotoxy(0, 9);
printf(" 1....CHECK BALANCE");
gotoxy(0, 11);
printf(" 2....TRANSFER MONEY");
gotoxy(0, 13);
printf(" 3....LOG OUT\n\n");
gotoxy(0, 15);
printf(" 4....EXIT\n\n");

printf(" ENTER YOUR CHOICES..");
scanf("%d", &choice);

switch (choice) {
case 1:
        checkbalance(username1);
        break;
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	case 2:
		transfermoney();
		break;

	case 3:
		logout();
		login();
		break;

	case 4:
		exit(0);
		break;
	}
}

// Function to transfer
// money from one user to
// another
void transfermoney(void)
{
	int i, j;
	FILE *fm, *fp;
	struct pass u1;
	struct money m1;
	char usernamet[20];
	char usernamep[20];
	system("cls");

	// Opening file in read mode to
	// read user's username
	fp = fopen("username.txt", "rb");

	// Creating a another file
	// to write amount along with
	// username to which amount
	// is going to be transfered
	fm = fopen("mon.txt", "ab");

	gotoxy(33, 4);
	printf("---- TRANSFER MONEY ----");
	gotoxy(33, 5);
	printf("========================");
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gotoxy(33, 11);
printf("FROM (your username).. ");
scanf("%s", &usernamet);

gotoxy(33, 13);
printf(" TO (username of person)..");
scanf("%s", &usernamep);

// Checking for username if it
// is present in file or not
while (fread(&u1, sizeof(u1),
                        1, fp))

{
        if (strcmp(usernamep,
                        u1.username)
                == 0) {
                strcpy(m1.usernameto,
                        u1.username);
                strcpy(m1.userpersonfrom,
                        usernamet);
        }
}
gotoxy(33, 16);

// Taking amount input
printf("ENTER THE AMOUNT TO BE TRANSFERED..");
scanf("%d", &m1.money1);

// Writing to the file
fwrite(&m1, sizeof(m1),
        1, fm);

gotoxy(0, 26);
printf(
        "-----------------------------------------------"
        "----------------------------------------");

gotoxy(0, 28);
printf(
        "-----------------------------------------------"
        "----------------------------------------");

gotoxy(0, 29);
```

```
        printf("transfering amount, Please wait..");

        gotoxy(10, 27);
        for (i = 0; i < 70; i++) {
                for (j = 0; j < 1200000; j++) {
                        j++;
                        j--;
                }
                printf("*");
        }

        gotoxy(33, 40);
        printf("AMOUNT SUCCESSFULLY TRANSFERED....");
        getch();

        // Close the files
        fclose(fp);
        fclose(fm);

        // Function to return
        // to the home screen
        display(usernamet);
}

// Function to check balance
// in users account
void checkbalance(char username2[])
{
        system("cls");
        FILE* fm;
        struct money m1;
        char ch;
        int i = 1, summoney = 0;

        // Opening amount file record
        fm = fopen("mon.txt", "rb");

        int k = 5, l = 10;
        int m = 30, n = 10;
        int u = 60, v = 10;

        gotoxy(30, 2);
        printf("==== BALANCE DASHBOARD ====");
        gotoxy(30, 3);
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        printf("**************************");
        gotoxy(k, l);
        printf("S no.");
        gotoxy(m, n);
        printf("TRANSACTION ID");
        gotoxy(u, v);
        printf("AMOUNT");

        // Reading username to
        // fetch the correct record
        while (fread(&m1, sizeof(m1),
                                1, fm)) {
            if (strcmp(username2,
                                m1.usernameto)
                == 0) {
                gotoxy(k, ++l);
                printf("%d", i);
                i++;
                gotoxy(m, ++n);
                printf("%s", m1.userpersonfrom);

                gotoxy(u, ++v);
                printf("%d", m1.money1);
                // Adding and
                // finding total money
                summoney = summoney + m1.money1;
            }
        }

        gotoxy(80, 10);
        printf("TOTAL AMOUNT");

        gotoxy(80, 12);
        printf("%d", summoney);

        getch();

        // Closing file after
        // reading it
        fclose(fm);
        display(username2);
}

// Logout function to bring
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```
// user to the login screen
void logout(void)
{
	int i, j;
	system("cls");
	printf("please wait, logging out");

	for (i = 0; i < 10; i++) {
		for (j = 0; j < 25000000; j++) {
			i++;
			i--;
		}
		printf(".");
	}

	gotoxy(30, 10);
	printf("Sign out successfully..\n");

	gotoxy(0, 20);
	printf("press any key to continue..");

	getch();
}
```