Mini Bank Management System in C

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

struct account {
    int acc_no;
    char name[50];
    float balance;
};

void create_account();
void display_account();
void deposit();
void withdraw();

int main() {
    int choice;

    while (1) {
        printf("\n===== MINI BANK MANAGEMENT SYSTEM =====\n");
        printf("1. Create Account\n");
        printf("2. Display Account\n");
        printf("3. Deposit Money\n");
        printf("4. Withdraw Money\n");
        printf("5. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch (choice) {
            case 1: create_account(); break;
            case 2: display_account(); break;
            case 3: deposit(); break;
            case 4: withdraw(); break;
            case 5: exit(0);
            default: printf("Invalid choice!\n");
        }
    }
    return 0;
}

void create_account() {
    struct account acc;
    FILE *fp = fopen("bank.dat", "ab");

    printf("Enter Account Number: ");
    scanf("%d", &acc.acc_no);
    printf("Enter Name: ");
    scanf(" %[^
]", acc.name);
    printf("Enter Initial Balance: ");
    scanf("%f", &acc.balance);

    fwrite(&acc, sizeof(acc), 1, fp);
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    fclose(fp);

    printf("Account created successfully!\n");
}

void display_account() {
    struct account acc;
    int acc_no, found = 0;
    FILE *fp = fopen("bank.dat", "rb");

    printf("Enter Account Number: ");
    scanf("%d", &acc_no);

    while (fread(&acc, sizeof(acc), 1, fp)) {
        if (acc.acc_no == acc_no) {
            printf("\nAccount Number: %d", acc.acc_no);
            printf("\nName: %s", acc.name);
            printf("\nBalance: %.2f\n", acc.balance);
            found = 1;
            break;
        }
    }
    fclose(fp);

    if (!found)
        printf("Account not found!\n");
}

void deposit() {
    struct account acc;
    int acc_no;
    float amount;
    FILE *fp = fopen("bank.dat", "rb+");

    printf("Enter Account Number: ");
    scanf("%d", &acc_no);
    printf("Enter Deposit Amount: ");
    scanf("%f", &amount);

    while (fread(&acc, sizeof(acc), 1, fp)) {
        if (acc.acc_no == acc_no) {
            acc.balance += amount;
            fseek(fp, -sizeof(acc), SEEK_CUR);
            fwrite(&acc, sizeof(acc), 1, fp);
            printf("Amount deposited successfully!\n");
            fclose(fp);
            return;
        }
    }
    fclose(fp);
    printf("Account not found!\n");
}

void withdraw() {
    struct account acc;
    int acc_no;
    float amount;
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    FILE *fp = fopen("bank.dat", "rb+");

    printf("Enter Account Number: ");
    scanf("%d", &acc_no);
    printf("Enter Withdraw Amount: ");
    scanf("%f", &amount);

    while (fread(&acc, sizeof(acc), 1, fp)) {
        if (acc.acc_no == acc_no) {
            if (acc.balance >= amount) {
                acc.balance -= amount;
                fseek(fp, -sizeof(acc), SEEK_CUR);
                fwrite(&acc, sizeof(acc), 1, fp);
                printf("Amount withdrawn successfully!\n");
            } else {
                printf("Insufficient balance!\n");
            }
            fclose(fp);
            return;
        }
    }
    fclose(fp);
    printf("Account not found!\n");
}
```