

CAR RENTAL SYSTEM CODE

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#include <stdio.h>
#include <conio.h>
#include <string.h>
#include <stdlib.h>
#include <time.h>
#include <windows.h>
void pay();
void user();
void LogIn();
int avail(int rno);
int vail(int);
struct Car{
    int Idno,Type;
    char Status[30],Date[30];
}cr;
int choice;
void insert(){
    system("cls");
    FILE *fp;
    fp = fopen("record.txt", "a");
    printf("Enter the Car Idno      :");
    scanf("%d", &cr.Idno);
    printf("1. BMW\n");
    printf("2. AUDI\n");
    printf("3. CADILLAC\n");
    printf("4. DATSUN\n");
    printf("5. FERRARI\n");
    printf("6. NISSAN\n");
    printf("Choice the Car Type(1 ~ 6) :");
    scanf("%d", &choice);
    switch (choice){
        case 1:cr.Type=1;break;
        case 2:cr.Type=2;break;
        case 3:cr.Type=3;break;
        case 4:cr.Type=4;break;
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case 5:cr.Type=5;break;
case 6:cr.Type=6;break;
default:
    printf("\n %30cInvalid entry. Please enter right option :)");
}
printf("Enter the Car Status    :");
scanf("%s", &cr.Status);
printf("Enter the Car Date      :");
scanf("%s", &cr.Date);
fwrite(&cr, sizeof(cr), 1, fp);
fclose(fp);
}

void display(){
    system("cls");
    FILE *fp1;
    char ch[30];
    fp1 = fopen("record.txt", "r");
    printf("Id Number\t\tType\t\t\tStatus\t\t\tDate\n\n");
    while (fread(&cr, sizeof(cr), 1, fp1)){
        switch (cr.Type){
            case 1:strcpy(ch,"BMW");break;
            case 2:strcpy(ch,"AUDI");break;
            case 3:strcpy(ch,"CADILLAC");break;
            case 4:strcpy(ch,"DATSUN");break;
            case 5:strcpy(ch,"FERRARI");break;
            case 6:strcpy(ch,"NISSAN");break;
            default:
                printf("\n %30cInvalid entry. Please enter right option :)");
        }
        printf("%-24d%-24s%-24s%-24s\n",cr.Idno,ch, cr.Status, cr.Date);
    }
    fclose(fp1);
}

void search(){
    system("cls");
    FILE *fp2;
    int avl,r,s;
    char ch[30];

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printf("1. BMW\n");
printf("2. AUDI\n");
printf("3. CADILLAC\n");
printf("4. DATSUN\n");
printf("5. FERRARI\n");
printf("6. NISSAN\n");
printf("Choice the Car Type(1 ~ 6) :");
scanf("%d", &choice);
switch (choice){
case 1:r=1;break;
case 2:r=2;break;
case 3:r=3;break;
case 4:r=4;break;
case 5:r=5;break;
case 6:r=6;break;
default:
    printf("\n %30cInvalid entry. Please enter right option :");
}
avl = vail(r);
if (avl == 0)
    printf("Id No %d is not available in the file\n", r);
else{
    fp2 = fopen("record.txt", "r");
    printf("Id Number\t\tType\t\tStatus\t\tDate\n\n");
    while (fread(&cr, sizeof(cr), 1, fp2)){
        s= cr.Type;
        if (s == r){
            switch (cr.Type){
            case 1:strcpy(ch,"BMW");break;
            case 2:strcpy(ch,"AUDI");break;
            case 3:strcpy(ch,"CADILLAC");break;
            case 4:strcpy(ch,"DATSUN");break;
            case 5:strcpy(ch,"FERRARI");break;
            case 6:strcpy(ch,"NISSAN");break;
            default:
                printf("\n %30cInvalid entry. Please enter right option :");
            }
            printf("%-24d%-24s%-24s%-24s\n", cr.Idno, ch, cr.Status, cr.Date);

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    }
}
fclose(fp2);
}
}
void update(){
    system("cls");
    int avl;
    FILE *fpt;
    FILE *fpo;
    int s, r, ch;
    printf("Enter Id number to update:");
    scanf("%d", &r);
    avl = avail(r);
    if (avl == 0){
        printf("Id number %d is not Available in the file", r);
    }
    else{
        fpo = fopen("record.txt", "r");
        fpt = fopen("temp.txt", "w");
        while (fread(&cr, sizeof(cr), 1, fpo)){
            s = cr.Idno;
            if (s != r)
                fwrite(&cr, sizeof(cr), 1, fpt);
            else{
                printf("1.Pay Now\n");
                printf("2.Book Now\n");
                printf("Enter your choice:");
                scanf("%d", &ch);
                switch (ch){
                    case 1:strcpy(cr.Status,"Paid");pay();break;
                    case 2:strcpy(cr.Status,"Booked");break;
                    default:printf("Invalid Selection");break;
                }
                fwrite(&cr, sizeof(cr), 1, fpt);
            }
        }
    }
    fclose(fpo);
}

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    fclose(fpt);
    fpo = fopen("record.txt", "w");
    fpt = fopen("temp.txt", "r");
    while (fread(&cr, sizeof(cr), 1, fpt)){
        fwrite(&cr, sizeof(cr), 1, fpo);
    }
    fclose(fpo);
    fclose(fpt);
}
printf("record updated");
}

void delete(){
    system("cls");
    FILE *fpo;
    FILE *fpt;
    int r, s;
    printf("Enter the Id no you want to delete :");
    scanf("%d", &r);
    if (avail(r) == 0)
        printf("Id no %d is not available in the file\n", r);
    else{
        fpo = fopen("record.txt", "r");
        fpt = fopen("temp.txt", "w");
        while (fread(&cr, sizeof(cr), 1, fpo)){
            s = cr.Idno;
            if (s != r)
                fwrite(&cr, sizeof(cr), 1, fpt);
        }
        fclose(fpo);
        fclose(fpt);
        fpo = fopen("record.txt", "w");
        fpt = fopen("temp.txt", "r");
        while (fread(&cr, sizeof(cr), 1, fpt))
            fwrite(&cr, sizeof(cr), 1, fpo);
        printf("record DELETED\n");
        fclose(fpo);
        fclose(fpt);
    }
}

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}
int avail(int rno){
    FILE *fp;
    int c = 0;
    fp = fopen("record.txt", "r");
    while (!feof(fp)){
        fread(&cr, sizeof(cr), 1, fp);
        if (rno == cr.lidno){
            fclose(fp);
            return 1;
        }
    }
    fclose(fp);
    return 0;
}
int vail(int tp){
    FILE *fp;
    fp = fopen("record.txt", "r");
    while (!feof(fp)){
        fread(&cr, sizeof(cr), 1, fp);
        if (tp == cr.Type){
            fclose(fp);
            return 1;
        }
    }
    fclose(fp);
    return 0;
}
int empty(){
    int c = 0;
    FILE *fp;
    fp = fopen("record.txt", "r");
    while (fread(&cr, sizeof(cr), 1, fp))
        c = 1;
    fclose(fp);
    return c;
}
int avail1(int rno);

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int vail1(int);
struct Driver{
    int Idno,Type;
    char Status[30],Name[30],Phone[30];
}drv;
int choice;
void insert1(){
    system("cls");
    FILE *fp;
    fp = fopen("record1.txt", "a");
    printf("Enter the Driver Idno    :");
    scanf("%d", &drv.Idno);
    printf("1. BMW\n");
    printf("2. AUDI\n");
    printf("3. CADILLAC\n");
    printf("4. DATSUN\n");
    printf("5. FERRARI\n");
    printf("6. NISSAN\n");
    printf("Choice Driver Expertise(1 ~ 6) :");
    scanf("%d", &choice);
    switch (choice){
        case 1:drv.Type=1;break;
        case 2:drv.Type=2;break;
        case 3:drv.Type=3;break;
        case 4:drv.Type=4;break;
        case 5:drv.Type=5;break;
        case 6:drv.Type=6;break;
        default:
            printf("\n %30cInvalid entry. Please enter right option :");
    }
    printf("Enter the Driver Status    :");
    scanf("%s", &drv.Status);
    printf("Enter the Driver Name    :");
    scanf("%s", &drv.Name);
    printf("Enter the Driver Phone    :");
    scanf("%s", &drv.Phone);
    fwrite(&drv, sizeof(drv), 1, fp);
    fclose(fp);
}

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}
void display1(){
    system("cls");
    FILE *fp1;
    char ch[30];
    fp1 = fopen("record1.txt", "r");
    printf("Id Number\t\tExpertise\t\tStatus\t\tName\t\t\tPhone\n\n");
    while (fread(&drv, sizeof(drv), 1, fp1)){
        switch (drv.Type){
            case 1:strcpy(ch,"BMW");break;
            case 2:strcpy(ch,"AUDI");break;
            case 3:strcpy(ch,"CADILLAC");break;
            case 4:strcpy(ch,"DATSUN");break;
            case 5:strcpy(ch,"FERRARI");break;
            case 6:strcpy(ch,"NISSAN");break;
            default:
                printf("\n %30cInvalid entry. Please enter right option :)");
        }
        printf("%-24d%-20s%-20s%-24s%-20s\n",drv.Idno,ch, drv.Status, drv.Name,drv.Phone);
    }
    fclose(fp1);
}

void search1(){
    system("cls");
    FILE *fp2;
    int avl,r,s;
    char ch[30];
    printf("1. BMW\n");
    printf("2. AUDI\n");
    printf("3. CADILLAC\n");
    printf("4. DATSUN\n");
    printf("5. FERRARI\n");
    printf("6. NISSAN\n");
    printf("Choice the Car Type(1 ~ 6) :");
    scanf("%d", &choice);
    switch (choice){
        case 1:r=1;break;
        case 2:r=2;break;

```



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case 3:r=3;break;
case 4:r=4;break;
case 5:r=5;break;
case 6:r=6;break;
default:
    printf("\n %30cInvalid entry. Please enter right option :)");
}
avl = vail1(r);
if (avl == 0)
    printf("Id No %d is not available in the file\n", r);
else{
    fp2 = fopen("record1.txt", "r");
    printf("Id Number\t\tExpertise\t\tStatus\t\tName\t\t\tPhone\n\n");
    while (fread(&drv, sizeof(drv), 1, fp2)){
        s= drv.Type;
        if (s == r){
            switch (drv.Type){
                case 1:strcpy(ch,"BMW");break;
                case 2:strcpy(ch,"AUDI");break;
                case 3:strcpy(ch,"CADILLAC");break;
                case 4:strcpy(ch,"DATSUN");break;
                case 5:strcpy(ch,"FERRARI");break;
                case 6:strcpy(ch,"NISSAN");break;
                default:
                    printf("\n %30cInvalid entry. Please enter right option :)");
            }
            printf("%-24d%-20s%-20s%-24s%-20s\n",drv.Idno,ch, drv.Status,
drv.Name,drv.Phone);
        }
    }
    fclose(fp2);
}
}
void update1(){
    system("cls");
    int avl;
    FILE *fpt;
    FILE *fpo;

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int s, r, ch;
printf("Enter Id number to update:");
scanf("%d", &r);
avl = avail1(r);
if (avl == 0){
    printf("Id number %d is not Available in the file", r);
}
else{
    fpo = fopen("record1.txt", "r");
    fpt = fopen("temp1.txt", "w");
    while (fread(&drvr, sizeof(drvr), 1, fpo)){
        s = drvr.Idno;
        if (s != r)
            fwrite(&drvr, sizeof(drvr), 1, fpt);
        else{
            printf("1.Pay Now\n");
            printf("2.Book Now\n");
            printf("Enter your choice:");
            scanf("%d", &ch);
            switch (ch){
                case 1:strcpy(drvr.Status,"Paid");pay();break;
                case 2:strcpy(drvr.Status,"Booked");break;
                default:printf("Invalid Selection");break;
            }
            fwrite(&drvr, sizeof(drvr), 1, fpt);
        }
    }
    fclose(fpo);
    fclose(fpt);
    fpo = fopen("record1.txt", "w");
    fpt = fopen("temp1.txt", "r");
    while (fread(&drvr, sizeof(drvr), 1, fpt)){
        fwrite(&drvr, sizeof(drvr), 1, fpo);
    }
    fclose(fpo);
    fclose(fpt);
}
printf("record updated");

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}
void delete1(){
    system("cls");
    FILE *fpo;
    FILE *fpt;
    int r, s;
    printf("Enter the Id no you want to delete :");
    scanf("%d", &r);
    if (avail1(r) == 0)
        printf("Id no %d is not available in the file\n", r);
    else{
        fpo = fopen("record1.txt", "r");
        fpt = fopen("temp1.txt", "w");
        while (fread(&drvr, sizeof(drvr), 1, fpo)){
            s = drvr.Idno;
            if (s != r)
                fwrite(&drvr, sizeof(drvr), 1, fpt);
        }
        fclose(fpo);
        fclose(fpt);
        fpo = fopen("record1.txt", "w");
        fpt = fopen("temp1.txt", "r");
        while (fread(&drvr, sizeof(drvr), 1, fpt))
            fwrite(&drvr, sizeof(drvr), 1, fpo);
        printf("record DELETED\n");
        fclose(fpo);
        fclose(fpt);
    }
}

int avail1(int rno){
    FILE *fp;
    int c = 0;
    fp = fopen("record1.txt", "r");
    while (!feof(fp)){
        fread(&drvr, sizeof(drvr), 1, fp);
        if (rno == drvr.Idno){
            fclose(fp);
            return 1;
        }
    }
}

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    }
}
fclose(fp);
return 0;
}

int vail1(int tp){
    FILE *fp;
    fp = fopen("record1.txt", "r");
    while (!feof(fp)){
        fread(&drvr, sizeof(drvr), 1, fp);
        if (tp == drvr.Type){
            fclose(fp);
            return 1;
        }
    }
    fclose(fp);
    return 0;
}

int empty1(){
    int c = 0;
    FILE *fp;
    fp = fopen("record1.txt", "r");
    while (fread(&drvr, sizeof(drvr), 1, fp))
        c = 1;
    fclose(fp);
    return c;
}

void pay(){
    char payment1[30], payment2[30], payment3[30];
    int c;
    printf("1. BKash\n");
    printf("2. Nagad\n");
    printf("3. Rocket\n");
    printf("4. IBBL\n");
    printf("5. DBBL\n");
    printf("Enter your choice:");
    scanf("%d", &c);
    printf("Enter your account/phone number:");

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scanf("%s", &payment1);
printf("Enter your pin number:");
scanf("%s", &payment2);
printf("Enter your amount:");
scanf("%s", &payment3);
}
int end(){
    system("cls");
    printf("          ##### ##  ##  ##  ###  ## ##  ##  #####          \n");
    printf("          ##  ##  ##  #####  ## #  ##  ## ##  #          \n");
    printf("          ##  #####  ## ##  ## #  ##  ##  #####          \n");
    printf("          ##  ##  ##  ## ## ##  ## #  ##  ##  ##  #          \n");
    printf("          ##  ##  ##  ##  ##  ##  ##  ##  ##  ##  #####          \n\n");
    printf("::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::: \n\n");
}
void admin(){
    system("cls");
    int c,d, emp;
    printf("1. Car Menu\n");
    printf("2. Driver Menu\n");
    printf("3. Go to user\n");
    printf("4. Exit\n");
    printf("Enter your choice:");
    scanf("%d", &d);
    if (d==1){
        printf("1. Car insert\n");
        printf("2. Car display\n");
        printf("3. Car search\n");
        printf("4. Car pay/book\n");
        printf("5. Car delete\n");
        printf("Enter your choice:");
        scanf("%d", &c);
        printf("\n");
        switch (c){
            case 1:insert();getch();admin();break;
            case 2:emp = empty();
                if (emp == 0)
                    printf("\nThe file is empty\n");

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        else
            display();
        getch();
        admin();
        break;
    case 3:search();getch();admin();break;
    case 4:update();getch();user();break;
    case 5:delete();getch();admin();break;
    default:printf("\n %30sInvalid entry. Please enter right option :");
}
}
else if (d==2){
    printf("1. Driver insert\n");
    printf("2. Driver display\n");
    printf("3. Driver search\n");
    printf("4. Driver pay/book\n");
    printf("5. Driver delete\n");
    printf("Enter your choice:");
    scanf("%d", &c);
    printf("\n");
    switch (c){
    case 1:insert1();getch();admin();break;
    case 2:emp = empty();
        if (emp == 0)
            printf("\nThe file is empty\n");
        else
            display1();
        getch();
        admin();
        break;
    case 3:search1();getch();admin();break;
    case 4:update1();getch();admin();break;
    case 5:delete1();getch();admin();break;
    default:printf("\n %30sInvalid entry. Please enter right option :");
}
}
else if (d==3){
    user();

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    }
    else if (d==4){
        end();
    }
    else{
        printf("Invalid\n");
    }
}

void user(){
    system("cls");
    int c,d, emp;
    printf("1. Car Menu\n");
    printf("2. Driver Menu\n");
    printf("3. Go to admin\n");
    printf("4. Exit\n");
    printf("Enter your choice:");
    scanf("%d", &d);
    if (d==1){
        printf("1. Car search\n");
        printf("2. Pay/Book for Car\n");
        printf("Enter your choice:");
        scanf("%d", &c);
        printf("\n");
        switch (c){
            case 1:search();getch();user();break;
            case 2:update();getch();user();break;
            default:printf("\n %30sInvalid entry. Please enter right option :");break;
        }
    }
    else if (d==2){
        printf("1. Driver search\n");
        printf("2. Pay/Book for Driver\n");
        printf("Enter your choice:");
        scanf("%d", &c);
        printf("\n");
        switch (c){
            case 1:search1();getch();user();break;
            case 2:update1();getch();user();break;;

```

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        default:printf("\n %30sInvalid entry. Please enter right option :");break;
    }
}
else if (d==3){
    admin();
}
else if (d==4){
    end();
}
else{
    printf("Invalid\n");
}

}

void LogIn(){
    char x[25], y[25];
    printf("User Name= ");
    scanf("%s", &x);
    printf("User Password= ");
    scanf("%s", &y);
    printf("Successfully Login\n");
}

void SignUp(){
    char name[30], user_name[30], password[30];
    FILE *fptr;
    int id;
    float intake, section;
    fptr = fopen("emp.txt", "w+");
    if (fptr == NULL){
        printf("File does not exists \n");
    }
    printf("Enter name: ");
    scanf("%s", name);
    fprintf(fptr, "Name = %s\n", name);
    printf("Enter the User name: ");
    scanf("%s", user_name);
    fprintf(fptr, "User name = %s\n", user_name);
}

```




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printf("Enter password: ");
scanf("%s", password);
fprintf(fp, "Password = %s\n", password);
fclose(fp);
FILE *fp;
char buff[255];
fp = fopen("emp.txt", "r");
while (fscanf(fp, "%s", buff) != EOF){
    printf("%s\n", buff);
}
fclose(fp);
LogIn();
}

int main(){
    int c, emp;
    printf("\n.....\n");
    printf("\n.....CAR RENTAL SYSTEM.....\n");
    printf("\n.....\n\n\n");
    printf("1. Login\t");
    printf("2. Signup\n\n");
    printf("Enter your choice:");
    scanf("%d", &c);
    printf("\n");
    switch (c){
        case 1:LogIn();break;
        case 2:SignUp();break;
        default:
            printf("\n %30sInvalid entry. Please enter right option :)\n");
            break;
    }
    printf("1. User\n");
    printf("2. Admin\n");
    printf("Enter your choice:");
    scanf("%d", &c);
    printf("\n");
    switch (c){
        case 1:user();break;

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case 2:admin();break;
default:
    printf("\n %30sInvalid entry. Please enter right option :");
    break;
}
return 0;
}
```

 "C:\Users\User\Desktop\Final\CAR RENTAL SYSTEM.exe"

```
.....
.....CAR RENTAL SYSTEM.....
.....

1. Login      2. Signup
Enter your choice:1

User Name= Jannat
User Password= Jannat281
Successfully Login
1. User
2. Admin
Enter your choice:_
```

"C:\Users\User\Desktop\Final\CAR RENTAL SYSTEM.exe"

```
.....
.....CAR RENTAL SYSTEM.....
.....

1. Login          2. Signup

Enter your choice:2

Enter name: Jannat
Enter the User name: jannat281
Enter password: jannat678
Name
=
Jannat
User
name
=
jannat281
Password
=
jannat678
User Name= _
```

"C:\Users\User\Desktop\Final\CAR RENTAL SYSTEM.exe"

```
1. Car Menu
2. Driver Menu
3. Go to user
4. Exit
Enter your choice:1
1. Car insert
2. Car display
3. Car search
4. Car pay/book
5. Car delete
Enter your choice:_
```

"C:\Users\User\Desktop\Final\CAR RENTAL SYSTEM.exe"

```
1. Car Menu
2. Driver Menu
3. Go to user
4. Exit
Enter your choice:2
1. Driver insert
2. Driver display
3. Driver search
4. Driver pay/book
5. Driver delete
Enter your choice:_
```

"C:\Users\User\Desktop\Final\CAR RENTAL SYSTEM.exe"

Id Number	Type	Status	Date
1031	BMW	Non-rent	12.6.20
1051	NISSAN	Non-rent	10.4.20

C:\Users\User\Desktop\hdlkwshfk.exe

```
Enter Id number to update:456
1.Pay Now
2.Book Now
Enter your choice:1
1. BKash
2. Nagad
3. Rocket
4. IBBL
5. DBBL
Enter your choice:1
Enter your account/phone number:01764355281
Enter your pin number:18734
Enter your amount:70,000
record updated
```