Car.c

#include<stdio.h>

#include<string.h>

#include "conio2.h"

#include "car.h"

#include <time.h>

void addAdmin()

{

FILE\* fp;

fp=fopen("Admin.bin","r");

if(fp==NULL)

{

fp=fopen("Admin.bin","wb");

User ad[2]={{"admin","test","Ravi"},{"admin","demo","Anil"}};

fwrite(ad,sizeof(ad),1,fp);

}

fclose(fp);

}

User\* getInput()

{

clrscr();

int i;

static User usr;

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM");

textcolor(YELLOW);

gotoxy(1,2);

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(54,5);

printf("\* LOGIN PANEL \*");

textcolor(LIGHTBLUE);

gotoxy(1,7);

for(int i=1;i<=120;i++)

printf("%c",247);

textcolor(LIGHTBLUE);

gotoxy(1,17);

for(i=1;i<=120;i++)

printf("%c",247);

textcolor(WHITE);

gotoxy(100,8);

printf("Press 0 to Exit");

textcolor(LIGHTBLUE);

gotoxy(54,11);

printf("Enter User ID:");

textcolor(WHITE);

fflush(stdin);

fgets(usr.userid,20,stdin);

char \*pos;

pos=strchr(usr.userid,'\n');

if(pos!=NULL)

\*pos='\0';

if(strcmp(usr.userid,"0")==0)

{

textcolor(LIGHTRED);

gotoxy(54,19);

printf("Login Cancelled!");

getch();

return NULL;

}

textcolor(LIGHTBLUE);

gotoxy(54,13);

printf("Enter Password:");

textcolor(WHITE);

fflush(stdin);

for(i=0;;i++)

{

usr.pwd[i]=getch();

if(usr.pwd[i]==13)

break;

if(usr.pwd[i]==8)

{

printf("\b \b");

i--;

usr.pwd[i]=getch();

printf("\*");

}

else

printf("\*");

}

usr.pwd[i]='\0';

if(strcmp(usr.pwd,"0")==0)

{

textcolor(LIGHTRED);

gotoxy(54,19);

printf("Login Cancelled!");

getch();

return NULL;

}

return &usr;

getch();

}

int checkUserExist(User usr,char \*name)

{

int found=0;

if(strcmp(usr.userid,"")==0 || strcmp(usr.pwd,"")==0)

{

textcolor(LIGHTRED);

gotoxy(54,19);

printf("Both Fields Are Mandatory.Try again");

getch();

gotoxy(54,19);

printf("\t\t\t\t\t\t");

return 0;

}

FILE \*fp;

if(strcmp(name,"admin")==0)

{

fp=fopen("admin.bin","rb");

}

else

{

fp=fopen("emp.bin","rb");

}

if(fp==NULL)

{

gotoxy(54,19);

textcolor(RED);

printf("Sorry ! can't open the File.");

getch();

gotoxy(54,19);

printf("\t\t\t\t\t\t");

return -1;

}

User u;

while(fread(&u,sizeof(u),1,fp)==1)

{

if(strcmp(u.userid,usr.userid)==0 && strcmp(u.pwd,usr.pwd)==0)

{

found=1;

break;

}

}

if(found==0)

{

gotoxy(54,19);

textcolor(LIGHTRED);

printf("INVALID USERID OR PASSWORD.");

getch();

printf("\t\t\t\t\t\t");

}

else

{

gotoxy(54,19);

textcolor(LIGHTGREEN);

printf("LOGIN SUCCESSFULL !");

getch();

printf("\t\t\t\t\t\t");

}

fclose(fp);

return found;

}

int adminMenu()

{

int i;

textcolor(LIGHTRED);

gotoxy(54,2);

printf("CAR RENTAL SYSTEM");

textcolor(LIGHTGREEN);

gotoxy(56,6);

printf("ADMIN MENU\n");

for(i=1;i<=120;i++)

printf("\*");

textcolor(YELLOW);

gotoxy(54,8);

printf("1. Add Employee");

gotoxy(54,9);

printf("2. Add Car Details");

gotoxy(54,10);

printf("3. Show Employee");

gotoxy(54,11);

printf("4. Show Car Details");

gotoxy(54,12);

printf("5. Delete Employee");

gotoxy(54,13);

printf("6. Delete Car Details");

gotoxy(54,14);

printf("7. Exit");

gotoxy(54,16);

printf("Enter Choice: ");

scanf("%d",&i);

return i;

}

void addEmployee()

{

FILE\* fp;

User usr;

int i;

int no;

char choice;

char id[20];

fp=fopen("emp.bin","ab+");

if(fp==NULL)

{

textcolor(LIGHTRED);

printf("SORRY, FILE CANT'T BE OPEN...");

getch();

}

fseek(fp,0,SEEK\_END);

no=ftell(fp)/60;

if(no!=0)

{

char \*pos;

fseek(fp,(signed int)-(sizeof(usr)),SEEK\_END);

fread(id,sizeof(id),1,fp);

pos=strchr(id,'\_');

pos++;

sscanf(pos,"%d",&no);

//no=atoi(pos); Both Have Done same work

}

no++;

fseek(fp,0,SEEK\_END);

do{

clrscr();

textcolor(LIGHTRED);

gotoxy(54,2);

printf("CAR RENTAL SYSTEM\n");

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("~");

textcolor(WHITE);

gotoxy(49,5);

printf("\*\*\* ADD EMPLOYEE DETAILS \*\*\*");

textcolor(YELLOW);

gotoxy(1,8);

printf("Enter Employee Name: ");

textcolor(WHITE);

fflush(stdin);

fgets(usr.name,20,stdin);

char \*pos;

pos=strchr(usr.name,'\n');

if(pos!=NULL)

\*pos='\0';

textcolor(YELLOW);

gotoxy(1,9);

printf("Enter Employee PassWord: ");

textcolor(WHITE);

fgets(usr.pwd,20,stdin);

pos=strchr(usr.pwd,'\n');

if(pos!=NULL)

\*pos='\0';

sprintf(usr.userid,"Emp\_%d",no);

i=fwrite(&usr,sizeof(usr),1,fp);

if(i==1)

{

textcolor(LIGHTGREEN);

gotoxy(54,18);

printf("Employee Added Successfully");

textcolor(YELLOW);

gotoxy(1,10);

printf("Employee ID is:");

textcolor(LIGHTGREEN);

printf("%s",usr.userid);

}

else

{

textcolor(RED);

gotoxy(54,12);

printf("Employee Can't be Added.");

}

gotoxy(1,21);

textcolor(RED);

printf("\nDO YOU WANT TO ADD MORE EMPLOYEE(Y/N): ");

textcolor(WHITE);

scanf(" %c",&choice);

no++;

}while(choice=='Y' || choice=='y');

fclose(fp);

}

void addCarDetails()

{

FILE \*fp;

Car car;

int i;

int id,no;

char choice;

fp=fopen("car.bin","ab+");

fseek(fp,(signed int)-(sizeof(car)),SEEK\_END);

no=fread(&id,sizeof(id),1,fp);

if(no!=1)

{

id=1;

}

else

{

id++;

}

fseek(fp,0,SEEK\_END);

car.car\_id=id;

do{

clrscr();

textcolor(LIGHTRED);

gotoxy(54,2);

printf("CAR RENTAL SYSTEM\n");

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("~");

textcolor(WHITE);

gotoxy(49,5);

printf("\*\*\* ADD CAR DETAILS \*\*\*");

textcolor(YELLOW);

gotoxy(1,8);

printf("Enter Car Model: ");

textcolor(WHITE);

fflush(stdin);

fgets(car.car\_name,50,stdin);

char \*pos;

pos=strchr(car.car\_name,'\n');

if(pos!=NULL)

\*pos='\0';

textcolor(YELLOW);

printf("Enter Car Capacity: ");

textcolor(WHITE);

scanf("%d",&car.capacity);

textcolor(YELLOW);

printf("Enter Car Count: ");

textcolor(WHITE);

scanf("%d",&car.car\_count);

textcolor(YELLOW);

printf("Enter Car Rent Per Day: ");

textcolor(WHITE);

scanf("%d",&car.price);

textcolor(YELLOW);

printf("CAR ID IS: ");

textcolor(LIGHTGREEN);

printf("%d",car.car\_id);

no=fwrite(&car,sizeof(car),1,fp);

if(no==1)

{

gotoxy(54,18);

printf("CAR ADDED SUCCESSFULLY\n\n");

textcolor(LIGHTRED);

printf("DO YOU WANT TO ADD MORE CAR(Y/N): ");

textcolor(WHITE);

scanf(" %c",&choice);

}

else{

textcolor(LIGHTRED);

gotoxy(54,18);

printf("CAR CAN'T BE ADDED");

getch();

}

car.car\_id++;

}while(choice=='Y' || choice=='y');

fclose(fp);

}

void viewEmployee()

{

int i;

User usr;

FILE \*fp;

fp=fopen("emp.bin","rb");

if(fp==NULL)

{

printf("NO EMPLOYEE AVAILABLE !!!!");

getch();

return;

}

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(53,5);

printf("\* EMPLOYEE DETAILS \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

printf(" Employee ID");

gotoxy(54,8);

printf("Name");

gotoxy(105,8);

printf("PassWord\n");

for(i=1;i<=120;i++)

printf("%c",247);

i=10;

while(fread(&usr,sizeof(usr),1,fp)==1)

{

textcolor(YELLOW);

printf(" %s",usr.userid);

gotoxy(54,i);

printf("%s",usr.name);

gotoxy(105,i);

printf("%s\n",usr.pwd);

i++;

}

getch();

fclose(fp);

}

void showCarDetails()

{

int i;

Car car;;

FILE \*fp;

fp=fopen("car.bin","rb");

if(fp==NULL)

{

printf("NO CAR AVAILABLE !!!!");

getch();

return;

}

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(54,5);

printf("\* CAR DETAILS \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

printf(" Car ID");

gotoxy(10,8);

printf("Car Name");

gotoxy(48,8);

printf("Capacity");

gotoxy(72,8);

printf("Count");

gotoxy(96,8);

printf("Rent Per day\n");

for(i=1;i<=120;i++)

printf("%c",247);

i=10;

while(fread(&car,sizeof(car),1,fp)==1)

{

printf(" %d",car.car\_id);

gotoxy(10,i);

printf("%s",car.car\_name);

gotoxy(48,i);

printf("%d",car.capacity);

gotoxy(72,i);

printf("%d",car.car\_count);

gotoxy(96,i);

printf("%d\n",car.price);

i++;

}

getch();

fclose(fp);

}

int deleteEmp()

{

int i;

int found=0;

char id[20];

FILE \*fp,\*fp2;

User usr;

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(49,5);

printf("\* DELETE EMPLOYEE RECORD(s) \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(1,13);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

fp=fopen("emp.bin","rb+");

gotoxy(44,10);

if(fp==NULL)

{

textcolor(RED);

gotoxy(50,10);

printf("NO EMPLOYEES AVAILABLE !!!");

getch();

return 0;

}

printf("Enter Employee ID to Delete Record:");

textcolor(WHITE);

fflush(stdin);

fgets(id,20,stdin);

char \*pos;

pos=strchr(id,'\n');

if(pos!=NULL)

\*pos='\0';

fp2=fopen("temp.bin","wb+");

if(fp2==NULL)

{

textcolor(LIGHTRED);

gotoxy(40,16);

printf("EMPLOYEES CANT't BE DELETED, PLEASE TRY AGAIN LATER!!!");

getch();

return 0;

}

while(fread(&usr,sizeof(usr),1,fp)==1)

{

if(strcmp(id,usr.userid)==0)

{

found=1;

continue;

}

fwrite(&usr,sizeof(usr),1,fp2);

}

fclose(fp);

fclose(fp2);

i=remove("emp.bin");

if(i!=0)

{

perror("Remove:");

}

i=rename("temp.bin","emp.bin");

if(i!=0)

{

perror("ReName:");

}

return found;

}

int deleteCarModel()

{

int i;

int found=0;

int id;

FILE \*fp,\*fp2;

Car car;

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(49,5);

printf("\* DELETE CAR MODEL(s) \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(1,13);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

fp=fopen("car.bin","rb+");

gotoxy(44,10);

if(fp==NULL)

{

textcolor(RED);

gotoxy(50,10);

printf("NO CARs AVAILABLE !!!");

getch();

return 0;

}

printf("Enter Car ID to Delete Record:");

textcolor(WHITE);

scanf("%d",&id);

fp2=fopen("temp.bin","wb+");

if(fp2==NULL)

{

textcolor(LIGHTRED);

gotoxy(40,16);

printf("CAR MODEL CANT't BE DELETED, PLEASE TRY AGAIN LATER!!!");

getch();

return 0;

}

while(fread(&car,sizeof(car),1,fp)==1)

{

if(id==car.car\_id)

{

found=1;

continue;

}

fwrite(&car,sizeof(car),1,fp2);

}

fclose(fp);

fclose(fp2);

i=remove("car.bin");

if(i!=0)

{

perror("Remove:");

}

i=rename("temp.bin","car.bin");

if(i!=0)

{

perror("ReName:");

}

return found;

}

int empMenu()

{

int i;

textcolor(LIGHTRED);

gotoxy(54,2);

printf("CAR RENTAL SYSTEM");

textcolor(LIGHTGREEN);

gotoxy(56,6);

printf("EMPLOYEE MENU\n");

for(i=1;i<=120;i++)

printf("\*");

textcolor(YELLOW);

gotoxy(54,8);

printf("1. RENT A CAR");

gotoxy(54,9);

printf("2. BOOKING DETAILs");

gotoxy(54,10);

printf("3. AVAILABLE CAR DETAILs");

gotoxy(54,11);

printf("4. SHOW ALL CAR DETAILs");

gotoxy(54,12);

printf("5. Exit");

gotoxy(54,15);

printf("Enter Choice: ");

textcolor(WHITE);

scanf("%d",&i);

return i;

}

int rentCar()

{

int i;

int res;

FILE \*fp;

Customer\_Car\_Details cust;

res=selectCarModel();

clrscr();

if(res==-1 || res==-2 || res==0)

return res;

cust.car\_id=res;

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

textcolor(LIGHTGREEN);

gotoxy(50,5);

printf("ENTER CUSTOMER CAR DETAIL's\n\n\n");

for(i=1;i<=120;i++)

{

printf("\*");

}

gotoxy(1,18);

for(i=1;i<=120;i++)

printf("\*");

char \*pos;

textcolor(YELLOW);

gotoxy(50,9);

printf("ENTER CUSTOMER NAME: ");

textcolor(WHITE);

fflush(stdin);

fgets(cust.cust\_name,30,stdin);

pos=strchr(cust.cust\_name,'\n');

if(pos!=NULL)

\*pos='\0';

textcolor(YELLOW);

gotoxy(50,10);

printf("ENTER PICK-UP POINT: ");

textcolor(WHITE);

fflush(stdin);

fgets(cust.pick,30,stdin);

pos=strchr(cust.pick,'\n');

if(pos!=NULL)

\*pos='\0';

textcolor(YELLOW);

gotoxy(50,11);

printf("ENTER DROP POINT: ");

textcolor(WHITE);

fflush(stdin);

fgets(cust.drop,30,stdin);

pos=strchr(cust.drop,'\n');

if(pos!=NULL)

\*pos='\0';

while(1)

{

textcolor(YELLOW);

gotoxy(50,12);

printf("ENTER START DATE (dd/mm/yyyy): ");

textcolor(WHITE);

scanf("%d/%d/%d",&cust.sd.tm\_mday,&cust.sd.tm\_mon,&cust.sd.tm\_year);

res=isValidDate(cust.sd);

if(res!=1)

{

gotoxy(50,20);

textcolor(RED);

printf("WRONG or INVALID Date !!!");

getch();

gotoxy(49,20);

printf("\t\t\t\t\t\t");

gotoxy(81,12);

printf("\t\t\t");

}

else

break;

}

while(1)

{

textcolor(YELLOW);

gotoxy(50,13);

printf("ENTER END DATE (dd/mm/yyyy): ");

textcolor(WHITE);

scanf("%d/%d/%d",&cust.ed.tm\_mday,&cust.ed.tm\_mon,&cust.ed.tm\_year);

res=isValidDate(cust.ed);

if(cust.sd.tm\_year < cust.ed.tm\_year);

else

{

if( cust.sd.tm\_mon < cust.ed.tm\_mon );

else

{

if( cust.sd.tm\_mday <= cust.ed.tm\_mday );

else

res=0;

}

}

if(res!=1)

{

gotoxy(50,20);

textcolor(RED);

printf("WRONG or INVALID Date !!!");

getch();

gotoxy(50,20);

printf("\t\t\t\t\t\t");

gotoxy(79,13);

printf("\t\t\t");

continue;

}

else

break;

}

///Write Info In file

fp=fopen("customer.bin","ab+");

if(fp==NULL)

{

gotoxy(50,20);

textcolor(RED);

printf("Sorry! File cannot be opened...");

getch();

return -1;

}

if(fwrite(&cust,sizeof(cust),1,fp) ==1)

{

printf("BOOKING DONE for : %d\n",cust.car\_id);

printf("Press Any Key To Continue....");

getch();

fclose(fp);

updateCarCount(cust.car\_id);

bookedCarDetails();

return 1;

}

else

{

gotoxy(50,20);

textcolor(RED);

printf("Data Cannot be write !!");

getch();

return -1;

}

}

int selectCarModel()

{

int i;

int choice;

int flag=0;

Car C;

FILE \*fp;

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(47,5);

printf("SELECT THE CAR YOU WANT TO BOOK\n\n");

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(1,9);

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(45,8);

printf("CAR ID's");

gotoxy(67,8);

printf("CAR MODEL's");

textcolor(YELLOW);

fp=fopen("car.bin","rb");

if(fp==NULL)

{

textcolor(RED);

gotoxy(52,13);

printf("SORRY! FILE CANOT BE OPEN..");

getch();

return -1;

}

textcolor(YELLOW);

int row\_no=10;

while(fread(&C,sizeof(C),1,fp)==1)

{

if(C.car\_count>0)

{

gotoxy(45,row\_no);

flag++;

printf("%d",C.car\_id);

gotoxy(67,row\_no);

printf("%s",C.car\_name);

row\_no++;

}

}

if(flag==0)

{

fclose(fp);

return -2;

}

gotoxy(45,row\_no+3);

printf("ENTER YOUR CHOICE AS CAR ID(0 to exit): ");

while(1)

{

textcolor(WHITE);

scanf("%d",&choice);

if(choice==0)

{

fclose(fp);

return choice;

}

rewind(fp);

flag=0;

while(fread(&C,sizeof(C),1,fp)==1)

{

if(C.car\_id==choice && C.car\_count>0)

{

flag=1;

fclose(fp);

return choice;

}

}

if(flag==0)

{

gotoxy(54,row\_no+6);

textcolor(RED);

printf("INVALID CHOICE!!");

getch();

gotoxy(52,row\_no+6);

printf("\t\t\t\t\t");

gotoxy(85,row\_no+3);

printf("\t");

gotoxy(85,row\_no+3);

}

}

fclose(fp);

getch();

}

int isValidDate(struct tm cust)

{

int dd,mm,yy;

struct tm dt;

time(&dt);

struct tm \*now=localtime(&dt);

now->tm\_mon=now->tm\_mon+1;

now->tm\_year=now->tm\_year+1900;

dd=cust.tm\_mday;

mm=cust.tm\_mon;

yy=cust.tm\_year;

///Checking date Syntactically

//Checking For year

if(yy>=now->tm\_year && yy<=now->tm\_year+1)

{

//Checking For Month

if(mm>=1 && mm<=12)

{

//Checking For Days

if(dd>0 && dd<=31)

{

if( (mm==4 || mm==6 || mm==9 || mm==11) && dd>30)

{

return 0;

}

else if(mm==2)

{

if( yy%4!=0 && dd>28 )

return 0;

}

}

else

return 0;

}

else

return 0;

}

else

{

return 0;

}

///Checking date Logically

if(yy > now->tm\_year)

return 1;

else

{

if( mm > now->tm\_mon)

return 1;

else if( mm == now->tm\_mon && dd >= now->tm\_mday)

return 1;

}

return 0;

}

void updateCarCount(int id)

{

FILE \*fp;

Car C;

fp=fopen("car.bin","rb+");

while(fread(&C,sizeof(C),1,fp)==1)

{

if(C.car\_id == id)

{

fseek(fp,(signed int)-(sizeof(C)),SEEK\_CUR);

C.car\_count--;

fwrite(&C,sizeof(C),1,fp);

break;

}

}

fclose(fp);

}

void bookedCarDetails(int C\_id)

{

int i;

clrscr();

Customer\_Car\_Details cust;

FILE \*fp;

fp=fopen("customer.bin","rb");

if(fp==NULL)

{

textcolor(YELLOW);

printf("NO BOOKED CAR !!");

getch();

return;

}

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(52,5);

printf("\* BOOKED CAR DETAILS \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

printf(" Model");

gotoxy(20,8);

printf("Cust Name");

gotoxy(40,8);

printf("Pick From");

gotoxy(65,8);

printf("Drop point");

gotoxy(90,8);

printf("S\_date");

gotoxy(106,8);

printf("E\_Date\n");

for(i=1;i<=120;i++)

printf("%c",247);

i=10;

textcolor(YELLOW);

while(fread(&cust,sizeof(cust),1,fp)==1)

{

printf(" %s",getCarName(cust.car\_id));

gotoxy(20,i);

printf("%s",cust.cust\_name);

gotoxy(40,i);

printf("%s",cust.pick);

gotoxy(65,i);

printf("%s",cust.drop);

gotoxy(90,i);

printf("%d/%d/%d",cust.sd.tm\_mday,cust.sd.tm\_mon,cust.sd.tm\_year);

gotoxy(106,i);

printf("%d/%d/%d\n",cust.ed.tm\_mday,cust.ed.tm\_mon,cust.ed.tm\_year);

i++;

}

getch();

fclose(fp);

}

char\* getCarName(int id)

{

FILE \*fp;

static Car C;

fp=fopen("car.bin","rb");

while(fread(&C,sizeof(C),1,fp)==1)

{

if(C.car\_id == id)

{

fclose(fp);

return C.car\_name;

}

}

printf("EHILW ENd");

getch();

fclose(fp);

return NULL;

}

void availCarDetails()

{

int i;

Car car;;

FILE \*fp;

fp=fopen("car.bin","rb");

if(fp==NULL)

{

printf("NO CAR AVAILABLE !!!!");

getch();

return;

}

textcolor(YELLOW);

gotoxy(54,1);

printf("CAR RENTAL SYSTEM\n");

for(i=1;i<=120;i++)

printf("%c",247);

gotoxy(54,5);

printf("\* CAR DETAILS \*");

gotoxy(1,7);

textcolor(LIGHTGREEN);

for(i=1;i<=120;i++)

printf("%c",247);

printf(" Car ID");

gotoxy(10,8);

printf("Car Name");

gotoxy(48,8);

printf("Capacity");

gotoxy(72,8);

printf("Count");

gotoxy(96,8);

printf("Rent Per day\n");

for(i=1;i<=120;i++)

printf("%c",247);

i=10;

while(fread(&car,sizeof(car),1,fp)==1)

{

if(car.car\_count>0)

{

printf(" %d",car.car\_id);

gotoxy(10,i);

printf("%s",car.car\_name);

gotoxy(48,i);

printf("%d",car.capacity);

gotoxy(72,i);

printf("%d",car.car\_count);

gotoxy(96,i);

printf("%d\n",car.price);

i++;

}

}

getch();

fclose(fp);

}

void carReturn()

{

FILE \*fp;

int res;

Customer\_Car\_Details cust;

fp=fopen("customer.bin","rb");

if(fp==NULL)

{

return;

}

struct tm dt,\*now;

time(&dt);

now=localtime(&dt);

now->tm\_mon=now->tm\_mon+1;

now->tm\_year=now->tm\_year+1900;

while(fread(&cust,sizeof(cust),1,fp)==1)

{

if(cust.ed.tm\_mday==now->tm\_mday && cust.ed.tm\_mon==now->tm\_mon && cust.ed.tm\_year==now->tm\_year)

{

res=deleteCust(cust);

if(res==1)

updateCarCount2(cust.car\_id);

}

}

fclose(fp);

}

void updateCarCount2(int id)

{

FILE \*fp;

Car C;

fp=fopen("car.bin","rb+");

while(fread(&C,sizeof(C),1,fp)==1)

{

if(C.car\_id == id)

{

fseek(fp,(signed int)-(sizeof(C)),SEEK\_CUR);

C.car\_count++;

fwrite(&C,sizeof(C),1,fp);

break;

}

}

fclose(fp);

}

int deleteCust(Customer\_Car\_Details cust)

{

int flag=0;

Customer\_Car\_Details cust2;

FILE \*fp=fopen("customer.bin","rb+");

if(fp==NULL)

return 0;

FILE \*fp2=fopen("temp.bin","wb+");

if(fp==NULL)

return 0;

while(fread(&cust2,sizeof(cust2),1,fp)==1)

{

if(strcmp(cust.cust\_name,cust2.cust\_name)==0 && strcmp(cust.pick,cust2.pick)==0 && strcmp(cust.drop,cust2.drop)==0 && cust.car\_id==cust2.car\_id && cust.sd.tm\_mday==cust2.sd.tm\_mday && cust.sd.tm\_mon==cust2.sd.tm\_mon && cust.sd.tm\_year==cust2.sd.tm\_year && cust.ed.tm\_mday==cust2.ed.tm\_mday && cust.ed.tm\_mon==cust2.ed.tm\_mon && cust.ed.tm\_year==cust2.ed.tm\_year)

{

flag=1;

continue;

}

else

{

fwrite(&cust2,sizeof(cust2),1,fp2);

}

}

fclose(fp);

fclose(fp2);

if(flag==0)

{

return 0;

}

fp=fopen("customer.bin","wb+");

fp2=fopen("temp.bin","rb");

while(fread(&cust2,sizeof(cust2),1,fp2)==1)

{

fwrite(&cust2,sizeof(cust2),1,fp);

}

return 1;

fclose(fp);

fclose(fp2);

}