**MODULE 1 (VEHICLE DETAILS)**

#include<stdio.h>

#include<string.h>

#include<time.h>

#include "allocate.c"

#include "tim.c"

#include "dis.c"

#include "c1.c"

char str[5];

int type[200][2];

char intime[200][15];

char regno[200][15];

void main()

{

int selection; int token=1,tok; int tokr,typ;

login();

printf("\t\tSelect\n\t1.Entry\n\n2.Exit\n\n3.Display\n\n4.Quit\nOption ---->\t");

scanf("%d",&selection);

do

{

switch(selection)

{

case 1: tok=entry(token);

token=tok;

alloc(tok-1,type[tok-1][0]);

break;

case 2: printf("\nEnter the token no ---->\t");

scanf("%d",&tokr);

printf("\n\nEnter type ---->\t");

scanf("%d",&typ); dealloc(tokr,typ); charges(intime[tokr][0],intime[tokr][1],intime[tokr][2],intime[tokr][3],regno[tokr]);

break;

case 3: displ(tok);

break;

case 4: break;

default:printf("Not valid");

}

if(selection!=4)

{

sleep(5);

system("cls");

printf("\t\tSelect\n\n\t\t\t1.Entry\n\n\t\t\t2.Exit\n\n\t\t\t3.Display\n\n\t\t\t4.Quit\n\n\t\tOption ---->\t");

scanf("%d",&selection);

}

}while(selection!=4);

}

int entry(int token)

{

//char regno[200][15];

//int type[200][2];

system("cls");

printf("\n\nEnter the Registration no ----->\t");

scanf("%s",regno[token]);

time\_t mytime = time(NULL);

char \* starttime = ctime(&mytime);

starttime[strlen(starttime)-1] = '\0';

//strcpy(time\_str,intime);

printf("\nEnter the vehicle type 1-Car 2-Bike: ----->\t");

scanf("%d",&type[token][0]);

intime[token][0]=starttime[11];

intime[token][1]=starttime[12];

intime[token][2]=starttime[14];

intime[token][3]=starttime[15];

// printf("%c%c:%c%c ",intime[token][0],intime[token][1],intime[token][2],intime[token][3]);

FILE \* fptr;

fptr = fopen("boot.txt", "a");

fputs(regno[token],fptr);fputs(" ",fptr);

fputs(starttime,fptr);fputs(" ",fptr);

if(type[token][0]==1)

fputs("Car",fptr);

if(type[token][0]==2)

fputs("Bike",fptr);

fputs("\n",fptr);

fclose(fptr);

//fputs(token,fptr);fputs("\n",fptr);

token++;// printf("%d",token);

return token;

}

**MODULE 2 (LOGIN)**

#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int login()

{

char uname[20],pass[20];int i,count=4;

printf("\n\t\tusername : ");

gets(uname);

printf("\n\t\tpassword : ");

gets(pass);

if((strcmp(uname,"admin1")==0 && strcmp(pass,"kkmk")==0 )||(strcmp(uname,"admin2")==0 && strcmp(pass,"kkmk")==0) )

{

printf("\n\t\tlogin sucessful\n ");

sleep(2);

system("cls");

return 0;

}

else

{

printf("\n\t\tusername or password is incorrect");

while(count)

{

printf("\n \t\tRemaining attempts --> %d\n\n",count);

printf("\n\t\tusername : ");

gets(uname);

printf("\n\t\tpassword : ");

gets(pass);

if((strcmp(uname,"admin1")==0 && strcmp(pass,"kkmk")==0 )||(strcmp(uname,"admin2")==0 && strcmp(pass,"kkmk")==0) )

{

printf("\n\t\tlogin sucessful\n ");

sleep(2);

system("cls");

return 0;

}

count--;

}

system("cls");

printf("\n\n\t\tlimit exceeded.Access denied\n\n");

exit(0);

}

}

**MODULE 3 (ALLOCATION)**

#include<stdio.h>

#include<string.h>

int two[2][50]={0};

int four[2][50]={0};

alloc(int tokennum,int type)

{

if(type==1)

printf("\nToken ---->\t%d\n\nType ---->\tFOUR WHEELER\n\n",tokennum,type);

else

printf("\nToken ---->\t%d\n\nType ---->\tTWO WHEELER\n\n",tokennum,type);

//int tokennum;

int i,j;

/\*scanf("%d",&tokennum);

int type;

scanf("%d",&type);\*/

int a=0,b=0,co=0,ca=0;

if(type==2)

{

for(i=0;i<2;i++)

{

for( j=0;j<50;j++)

{

if(two[i][j]==0)

{

two[i][j]=tokennum;

a=i;

b=j;

co++;

goto a;

}

}

}

if(co==0)

{

printf("FULL\n");

goto e;

}

a: if(a==0)

printf("\nAllocated in A%d\n\n",b+1) ;

else if(a==1)

printf("\nAllocated in B%d\n\n",b+1) ;

e:

printf("\xdb ");

printf("\t\t\t\tTWO WHEELER PARKING AREA\t\t\t\t\t \xdb\n");

for(i=0;i<2;i++)

{

printf("\xdb ");

for( j=0;j<50;j++)

{

if(two[i][j]==0)

printf("| ");

else

printf("\* ");

}

printf("\xdb ");

printf("\n");

}

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

printf("\n");

}

else if(type==1)

{

for(i=0;i<5;i++)

{

for( j=0;j<50;j++)

{

if(four[i][j]==0)

{

four[i][j]=tokennum;

a=i;

b=j;

goto c;

}

}

}if(ca==0)

{

printf("FULL\n");

goto g;

}

c: if(a==0)

printf("Allocated in C%d\n",b+1) ;

else if(a==1)

printf("Allocated in D%d\n",b+1) ;

g:

printf("\xdb ");

printf("\t\t\t\tFOUR WHEELER PARKING AREA\t\t\t\t\t \xdb\n");

for(i=0;i<2;i++)

{

printf("\xdb ");

for( j=0;j<50;j++)

{

if(four[i][j]==0)

printf("| ");

else

printf("\* ");

}

printf("\xdb ");

printf("\n");

}

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

printf("\n");

}

}

dealloc(int tokennum,int type)

{

int i,j;

if(type==2)

{

for(i=0;i<2;i++)

{

for( j=0;j<50;j++)

{

if(two[i][j]==tokennum)

{

two[i][j]=0;

goto a;

}

}

}

a:

printf("\xdb ");

printf("\t\t\t\tTWO WHEELER PARKING AREA\t\t\t\t\t \xdb\n");

for(i=0;i<2;i++)

{

printf("\xdb ");

for( j=0;j<50;j++)

{

if(two[i][j]==0)

printf("| ");

else

printf("\* ");

}

printf("\xdb ");

printf("\n");

}

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

printf("\n");

}

else if(type==1)

{

for(i=0;i<2;i++)

{

for( j=0;j<50;j++)

{

if(four[i][j]==tokennum)

{

four[i][j]=0;

goto iu;

}

}

}

iu:

printf("\xdb ");

printf("\t\t\t\tFOUR WHEELER PARKING AREA\t\t\t\t\t \xdb\n");

for(i=0;i<2;i++)

{

printf("\xdb ");

for( j=0;j<50;j++)

{

if(four[i][j]==0)

printf("| ");

else

printf("\* ");

}

printf("\xdb ");

printf("\n");

}

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

printf("\n");

}

}

**MODULE 4 (PAYMENT)**

#include<math.h>

#include <time.h>

#include <stdio.h>

#include<string.h>

double totalfare1;

charges(char a,char b,char c,char d,char in[15])

{

time\_t mytime = time(NULL);

char \* time\_str = ctime(&mytime);

time\_str[strlen(time\_str)-1] = '\0';

//printf("Current Time : %s\n", time\_str);

printf("TIME --->\t%c%c : %c%c\n\n",time\_str[11],time\_str[12],time\_str[14],time\_str[15]);

int fare = 20;

char str[5];

str[0]=a;str[1]=b;str[2]=c;str[3]=d;

int starthour=(time\_str[11]-48 )\*10 + (time\_str[12]-48);

int endhour=(str[0]-48 )\*10 + (str[1]-48);

printf(" %d hours ",starthour-endhour);

int startmin=(time\_str[14]-48 )\*10 + (time\_str[15]-48);

int endmin=(str[2]-48 )\*10 + (str[3]-48);

printf("%d mins",startmin-endmin);

int totmins=(starthour-endhour)\*60+(startmin-endmin);

printf("%d tot mins",totmins);

double totalfare=(ceil)((double)totmins\*((double)fare/60));

printf("\n\nTotal fare -----> %lf",totalfare);

char farestring[10];

sprintf(farestring,"%lf",totalfare);

//gcvt(totalfare,6,farestring);

FILE \* fptr;

fptr = fopen("payment.txt", "a");

fputs(in,fptr);fputs(" ",fptr);

fputs(time\_str,fptr);fputs(" ",fptr);

fprintf(fptr,farestring);fputs(" ",fptr);

/\*if(type[token][0]==1)

fputs("Car",fptr);

if(type[token][0]==2)

fputs("Bike",fptr);\*/

fputs("\n",fptr);

fclose(fptr);

totalfare1=totalfare1+totalfare;

return 0;

}

totalva()

{

printf("%f",totalfare1);

}

**MODULE 5(DISPLAY)**

#include <stdio.h>

#include <stdlib.h>

displ(int token)

{

int n;

system("cls");

printf("\n\n\t\tSelect\n\n\t\t\t1.Total vehicle count\n\n\t\t\t2.Display boot log\n\n\t\t\t3.payment\n\n\t\tOption ---->\t");

scanf("%d",&n);

if(n==1)

{

printf("\n\tTotal vehicles ---->\t%d",token-1);

}

if(n==2)

{

FILE \*fptr;

char c;

fptr = fopen("boot.txt", "r");

c = fgetc(fptr); printf("\n\n");

while (c != EOF)

{

printf ("%c", c);

c = fgetc(fptr);

}

fclose(fptr);

}

if(n==3)

{

FILE \*fptr;

char c;

fptr = fopen("payment.txt", "r");

c = fgetc(fptr); printf("\n\n");

while (c != EOF)

{

printf ("%c", c);

c = fgetc(fptr);

}

fclose(fptr);

}

return 0; }