#include<stdio.h>

#include<conio.h>

#include<windows.h>

#include<ctype.h>

#include<string.h>

#include<windef.h>

//file pointer

FILE \*a, \*t, \*b;

int number\_present = 0, num;

int num1, success=0, choice;

char answer;

int patnum;

//-----------------------------------------------------------------------------//

//function prototypes

void opening\_screen();

void main\_menu();

void add\_patient();

void view\_patient();

void display\_all();

void calculate\_bill();

void bill\_deleting();

void deleting();

void update();

//-----------------------------------------------------------------------------//

//data variables

struct add\_patient{

char lname[50];

char fname[50];

char mname[50];

int patientnum;

int month, day, year;

int age;

char gender[50];

int house\_num;

char street[50];

char barangay[50];

char city[50];

int patnum;

int room\_type;

int floor\_num;

int room\_num;

float downpayment;

char room[10];

int daysadmit;

float roomexpense;

float labor\_charges;

float operating\_charges;

float xray\_charges;

float laboratory\_charges;

float total\_expense;

float expense;

float balance;

float phhealth\_deduc;

float room\_rate;

}patient, input;

//-----------------------------------------------------------------------------//

main()

{

int i;

system("cls");

opening\_screen(); //function call(opening screen)

printf("\n\n\n\n\n");

for(i=0; i<80; i++)

{

system("color fc");

Sleep(0);

printf("\xdb");

}

system("color 0F");

main\_menu();

getch();

return 0;

}

//-----------------------------------------------------------------------------//

void opening\_screen()

{

system("cls");

int i,j,k;

system("color fc");

printf("\n");

for(i=0; i<80; i++)

{

printf("\x2b");

}

for(i=0; i<80; i++)

{

printf("\x2b");

}

printf("\n");

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

{

printf("\x2b");

}

printf("\n\n\n\n\n\n");

for(i=0; i<20; i++)

{

printf("\xdb");

}

printf(" HOSPITAL BILLING SYSTEM ");

for(i=0; i<20; i++)

{

printf("\xdb");

}

printf("\n\n\n\n\t\t\t [PRESS ANY KEY TO CONTINUE]");

printf("\n");

getch();

}

//-----------------------------------------------------------------------------//

void main\_menu(){

system("cls");

system("COLOR F0");

int ch;

printf("\t\t Welcome! Kindly choose your transaction.\t");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\n\t\t | \t (1) - ADMIT A PATIENT |\n");

printf("\n\t\t | \t (2) - VIEW PATIENT'S RECORD |\n");

printf("\n\t\t | \t (3) - DISPLAY ALL PATIENT |\n");

printf("\n\t\t | \t (4) - CALCULATE PATIENT'S BILL |\n");

printf("\n\t\t | \t (5) - UPDATE PATIENT INFORMATION |\n");

printf("\n\t\t | \t (6) - DELETE PATIENT'S RECORD |\n");

printf("\n\t\t | \t (7) - EXIT |");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n");

printf("\t\t\t\t\n\t\t\t\t\t\t\t\t(0) - About\n\t");

ch = getch();

switch(ch)

{

case '1':

{

system("cls");

add\_patient();

break;

}

case '2':

{

system("cls");

view\_patient();

break;

}

case '3':

{

display\_all();

break;

}

case '4':

{

calculate\_bill();

bill\_deleting();

break;

}

case '5':

{

update();

break;

}

case '6':

{

deleting();

break;

}

case '7':

{

char choice;

int i;

system("cls");

printf("Are you sure you want to exit? Y if yes / N if No: ");

scanf("%s", &choice);

if((choice == 'y') || (choice == 'Y'))

{ //if ( choice == y || == Y ) opening bracket

system("cls");

printf("\n\n\n\t\t\t\tTHE SYSTEM WILL EXIT\n\t\t\t\t THANK YOU!!!\n\n\n");

for(i=0; i<80; i++)

{

system("color fc");

Sleep(0);

printf("\xdb");

}

exit(0);

} //if ( choice == y || == Y ) closing bracket

else if((choice == 'N') || (choice == 'n'))

{ //else if ( choice == n || == N ) opening bracket

system("cls");

main\_menu();

} //else if ( choice == n || == N ) closing bracket

else

{ //else opening bracket

system("cls");

printf("\n\n\n\t\t\t\tInvalid input\n\t\t\t The system will exit.\n\n\n");

for(i=0; i<80; i++)

{

system("color fc");

Sleep(0);

printf("\xdb");

}

exit(0);

}//else closing bracket

break;

}//case 5(EXIT) closing bracket

case '0':

{

system("cls");

int i;

for(i=0; i<79; i++)

{

system("color fc");

printf("\xfe");

}

printf("\n\t\t\t Name: Hospital Billing System\n\t\t\t Version: 1.0\n\t\t\t Copyright(c) 2016\n\t\t\t Programmers: \n\n\t\t\t Marlon V. Nino\n\t\t\t Paulo Matocinos\n\t\t\t Alec A. Roxas\n\t\t\t Ryan R. Samonte\n\t\t\t Ike F. Tag-at\n\t\t\t JC Ubina\n\t\t\t Eliakim D. Urian");

printf("\n\t\t\t BSIT 1-3N");

printf("\n\nDescription:\n\n\tThe title of this Program is HOSPITAL BILLING SYSTEM.This Program was\n made to calculate patient's hospital bill, record, display,edit and delete his or her hospital record.");

printf("\n\n");

for(i=0; i<79; i++)

{

system("color fc");

printf("\xfe");

}

printf("\n");

system("pause");

main\_menu();

}

default:

{

printf("Invalid");

}

}

}

//-----------------------------------------------------------------------------//

void add\_patient()//void add\_patient opening bracket

{

system("cls");

system("COLOR F0");

char ans;

a = fopen("patient.txt", "a+");//text file

system("cls");

do

{ //Date admitted loop if wrong input

system("cls");

printf("Date of admission:");

printf("\nMonth:");

scanf("%d", &patient.month);

printf("\nDay:");

scanf("%d", &patient.day);

printf("\nYear:");

scanf("%d", &patient.year);

}while((patient.month > 12) || (patient.day >31) || (patient.year > 2016));

system("cls");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment)!=EOF)

{

while(patnum == patient.patientnum){

printf("Patient Number:");

scanf("%d", &patnum);

};

}

patient.patientnum = patnum;

printf("Enter last name:");

scanf("%s", &patient.lname);

printf("\nEnter first name:");

scanf("%s", &patient.fname);

printf("\nEnter middle name:");

scanf("%s", &patient.mname);

printf("\nAge:");

scanf("%d", &patient.age);

printf("\nGender (M/F):");

scanf("%s", &patient.gender);

printf("\n\n\*\*\*Address\*\*\*\n");

printf("\nHouse number:");

scanf("%d", &patient.house\_num);

printf("\nStreet:");

scanf("%s", &patient.street);

printf("\nBarangay:");

scanf("%s", &patient.barangay);

printf("\nCity/Municipality:");

scanf("%s", &patient.city);

printf("\nRoom type:\n1 if Nursery\n2 if Ward\n3 if Private\n4 if V.I.P \n\nInput:");

scanf("%d", &patient.room\_type);

if(patient.room\_type == 1)

{

strcpy(patient.room, "Nursery");

}

if(patient.room\_type == 2)

{

strcpy(patient.room, "Ward");

}

if(patient.room\_type == 3)

{

strcpy(patient.room, "Private");

}

if(patient.room\_type == 4)

{

strcpy(patient.room, "V.I.P");

}

printf("\nFloor number:");

scanf("%d", &patient.floor\_num);

printf("\nRoom number:");

scanf("%d", &patient.room\_num);

printf("\nDownpayment:");

scanf("%f", &patient.downpayment);

//file printf's

fprintf(a,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

printf("%s, %s %s was added as a patient.\n", patient.lname, patient.fname, patient.mname);

fclose(a);

printf("\n");

system("pause");

main\_menu();

}//void add\_patient closing bracket

//-----------------------------------------------------------------------------//

void view\_patient(){

system("COLOR F0");

printf("Patient number:");

scanf("%d", &num);

a = fopen("patient.txt" , "r");

while(!feof(a))

{

fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment);

if(patient.patientnum == num)

{

number\_present = 1;

printf("\nPatient Number: %d\nDate of admission: %d/%d/%d\n\nPatient name:%s, %s %s\n\nAge:%d\n\nGender:%s\n\nAddress:#%d %s St. Brgy. %s, %s\n\nRoom type:%s\n\nFloor:%dFloor\n\nRoom No:%d\n\nDownpayment:%.2f Peso/s only", patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

}

}

fclose(a);

if(number\_present==0)

{

printf("Patient not found!");

}

getch();

main\_menu();

}

//-----------------------------------------------------------------------------//

void display\_all(){

system("cls");

a = fopen("patient.txt" , "r");

printf("#\t\tNAME\t\tAGE\tROOM TYPE\tFLOOR #\tROOM #");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment)!=EOF)

{

printf("\n%d\t%s, %s %s\t%d\t%s\t\t %d\t %d\n", patient.patientnum, patient.lname, patient.fname,patient.mname, patient.age,patient.room, patient.floor\_num, patient.room\_num);

}

fclose(a);

printf("\n");

system("pause");

main\_menu();

}

//-----------------------------------------------------------------------------//

void calculate\_bill(){

int roomtype;

int answer, answer2,answer3,answer4,answer5,answer6,answer7;

system("COLOR F0");

printf("Patient number:");

scanf("%d", &num);

a = fopen("patient.txt" , "r+");

b = fopen("bill.txt" , "a");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment)!=EOF)

{ if(patient.patientnum == num)

{ system("cls");

number\_present = 1;

printf("\nPatient Number: %d\nDate of admission: %d/%d/%d\n\nPatient name:%s, %s %s\n\nAge:%d\n\nGender:%s\n\nAddress:#%d %s St. Brgy. %s, %s\n\nRoom type:%s\n\nFloor:%dFloor\n\nRoom No:%d\n\nDownpayment:%.2f Peso/s only", patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

printf("\n\nDays admitted:");

scanf("%d", &patient.daysadmit);

system("cls");

printf("Re-enter room type:");

printf("\nRoom type:\n1 if Nursery\n2 if Ward\n3 if Private\n4 if V.I.P \n\nInput:");

scanf("%d", &roomtype);

if(roomtype == 1)

{

patient.roomexpense = (patient.daysadmit \* 1170);

patient.room\_rate = 1170;

}

if(roomtype == 2)

{

patient.roomexpense = (patient.daysadmit \* 2120);

patient.room\_rate = 2120;

}

if(roomtype == 3)

{

patient.roomexpense = (patient.daysadmit \* 3000);

patient.room\_rate = 3000;

}

if(roomtype == 4)

{

patient.roomexpense = (patient.daysadmit \* 5500);

patient.room\_rate = 5500;

}

printf("Room expense:%d days \* %.2f = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense);

system("pause");

system("cls");

printf("Labor charges? 1 if yes 2 if no");

scanf("%d", &answer);

if(answer == 1)

{

int answer1;

printf("\nNormal delivery? 1 if yes 2 if no");

scanf("%d", &answer1);

if(answer1 == 1)

{

patient.labor\_charges = patient.labor\_charges + 2708;

}

else

{

patient.labor\_charges = patient.labor\_charges + 5930;

}

}

else if(answer == 2){

patient.labor\_charges = 0;

}

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges);

system("pause");

system("cls");

printf("Operating room charges? 1 if yes 2 if no");

scanf("%d", &answer2);

if(answer2 == 1)

{

printf("Input the operation level: From 1-6");

scanf("%d", &answer3);

if(answer3 == 1){

patient.operating\_charges = 1382;

}

if(answer3 == 2){

patient.operating\_charges = 1957;

}

if(answer3 == 3){

patient.operating\_charges = 2533;

}

if(answer3 == 4){

patient.operating\_charges = 3569;

}

if(answer3 == 5){

patient.operating\_charges = 4214;

}

if(answer3 == 6){

patient.operating\_charges = 4479;

}

}

else if(answer2 == 2){

patient.operating\_charges = 0;

}

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\nOperation charges = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges, patient.operating\_charges);

system("pause");

system("cls");

printf("X-ray charges? 1 if yes 2 if no");

scanf("%d", &answer4);

if(answer4 == 1){

system("cls");

printf("Choose the x-ray and radiological procedure:\t");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\n\t\t |(1) - CHEST (2 VIEWS) |\n");

printf("\n\t\t |(2) - CHEST (1 VIEW) |\n");

printf("\n\t\t |(3) - ANKLE |\n");

printf("\n\t\t |(4) - FOOT |\n");

printf("\n\t\t |(5) - KNEE |\n");

printf("\n\t\t |(6) - ULTRASOUND |\n");

printf("\n\t\t |(7) - CT HEAD |\n");

printf("\n\t\t |(8) - CT CHEST |\n");

printf("\n\t\t |(9) - MRI BRAIN |\n");

printf("\n\t\t |(0) - MRA HEAD |\n");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n");

answer5 = getch();

switch(answer5){

case '1':

{

patient.xray\_charges = 402;

break;

}

case '2':

{

patient.xray\_charges = 343;

break;

}

case '3':

{

patient.xray\_charges = 473;

break;

}

case '4':

{

patient.xray\_charges = 545;

break;

}

case '5':

{

patient.xray\_charges = 400;

break;

}

case '6':

{

patient.xray\_charges = 701;

break;

}

case '7':

{

patient.xray\_charges = 1688;

break;

}

case '8':

{

patient.xray\_charges = 2347;

break;

}

case '9':

{

patient.xray\_charges = 2795;

break;

}

case '0':

{

patient.xray\_charges = 2391;

break;

}

default:

{

printf("Invalid Input: BACK TO MAIN MENU");

main\_menu();

}

}

}

else if(answer4 == 2){

patient.xray\_charges = 0;

}

system("cls");

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\nOperation charges = %.2f\nX-ray charges = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges, patient.operating\_charges, patient.xray\_charges);

system("pause");

system("cls");

printf("Laboratory charges? 1 if yes 2 if no");

scanf("%d", &answer6);

if(answer6 == 1){

system("cls");

printf("Choose the x-ray and radiological procedure:\t");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\n\t\t |(1) - ABG pH/CO2/HCO3 |\n");

printf("\n\t\t |(2) - BILIRUBIN TOTAL |\n");

printf("\n\t\t |(3) - CALCIUM IONIZED |\n");

printf("\n\t\t |(4) - CHLORIDE BLOOD |\n");

printf("\n\t\t |(5) - CARBON MONOXIDE |\n");

printf("\n\t\t |(6) - GLUCOSE QUANT BLOOD|\n");

printf("\n\t\t |(7) - LACTATE ACID |\n");

printf("\n\t\t |(8) - MAGNESIUM |\n");

printf("\n\t\t |(9) - SODIUM SERUM |\n");

printf("\n\t\t |(0) - RENAL FUNCTION |\n");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n");

answer7 = getch();

switch(answer7){

case '1':

{

patient.laboratory\_charges = 250;

break;

}

case '2':

{

patient.laboratory\_charges = 41;

break;

}

case '3':

{

patient.laboratory\_charges = 140;

break;

}

case '4':

{

patient.laboratory\_charges = 51;

break;

}

case '5':

{

patient.laboratory\_charges = 115;

break;

}

case '6':

{

patient.laboratory\_charges = 32;

break;

}

case '7':

{

patient.laboratory\_charges = 106;

break;

}

case '8':

{

patient.laboratory\_charges = 90;

break;

}

case '9':

{

patient.laboratory\_charges = 78;

break;

}

case '0':

{

patient.laboratory\_charges = 96;

break;

}

default:

{

printf("Invalid Input: BACK TO MAIN MENU");

main\_menu();

}

}

}

else if(answer6 == 2){

patient.laboratory\_charges = 0;

}

system("cls");

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\nOperation charges = %.2f\nX-ray charges = %.2f\nLaboratory charges = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges, patient.operating\_charges, patient.xray\_charges, patient.laboratory\_charges);

system("pause");

system("cls");

printf("Philhealth card? 1 if yes 2 if no");

scanf("%d", &answer5);

if(answer5 == 1){

printf("\nEnter card balance:");

scanf("%f", &patient.balance);

patient.phhealth\_deduc = patient.balance;

}

else if(answer5 == 2){

patient.phhealth\_deduc = 0;

}

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\nOperation charges = %.2f\nX-ray charges = %.2f\nLaboratory charges = %.2f\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nLess:\n Philhealth deduction = %.2f\n Downpayment = %.2f\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges, patient.operating\_charges, patient.xray\_charges, patient.laboratory\_charges, patient.phhealth\_deduc, patient.downpayment);

system("pause");

system("cls");

patient.expense = ( patient.roomexpense + patient.labor\_charges + patient.operating\_charges + patient.xray\_charges + patient.laboratory\_charges ) - patient.downpayment;

patient.total\_expense = (patient.expense - patient.phhealth\_deduc);

printf("\nRoom expense:%d days \* %.2f = %.2f\nLabor charges = %.2f\nOperation charges = %.2f\nX-ray charges = %.2f\nLaboratory charges = %.2f\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\nLess:\n Philhealth deduction = %.2f\n Downpayment = %.2f\n--------------------------------------\nTOTAL = %.2f Peso(s) only.\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n\n", patient.daysadmit, patient.room\_rate, patient.roomexpense, patient.labor\_charges, patient.operating\_charges, patient.xray\_charges, patient.laboratory\_charges, patient.phhealth\_deduc, patient.downpayment, patient.total\_expense);

system("pause");

system("cls");

fprintf(b, "%d\t%s, %s %s\t%.2f\t%.2f\t%.2f\t%.2f\t%.2f\t%.2f\t%.2f= %.2f\n", patient.patientnum, patient.lname, patient.fname, patient.mname, patient.roomexpense, patient.labor\_charges, patient.operating\_charges, patient.xray\_charges, patient.laboratory\_charges,patient.downpayment,patient.phhealth\_deduc, patient.total\_expense);

}

}

fclose(a);

fclose(b);

if(number\_present==0)

{

printf("Patient not found!");

}

}

//-----------------------------------------------------------------------------//

void bill\_deleting(){

int pay1;

printf("Pay now? 1 if YES 2 if NO");

scanf("%d", &pay1);

if(pay1 == 1){

char ans, lname[30];

int succ=0;

printf("Discharge patient now? [Y/N]: ");

scanf("%s", &ans);

if(toupper(ans)== 'Y')

{

printf("Kindly re-enter the patient's last name: ");

scanf("%s", &lname);

a = fopen("patient.txt","r");

t = fopen("temp.txt","w");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment)!=EOF)

{

// start of while

if(strcmp(lname,patient.lname)==0)//if the same name

{

printf("\nPatients lastname: %s", patient.lname);

printf("\nAre you sure you want to discharge the patient now?[Y/N]");

scanf("%s", &ans);

if(toupper(ans)== 'Y')

{

printf("\nSuccesfully Discharged");

succ=1;

}

else{

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

succ=1;

}

}//end of not the same

else{//not the same

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

}

}//end of while scanf

fclose(a);

fclose(t);

remove("patient.txt");

rename("temp.txt","patient.txt");

if(succ==0){

printf("\nPatient not found");

}

getch();

system("pause");

main\_menu();

}// end of toupper

}

main\_menu();

}

//-----------------------------------------------------------------------------//

void deleting(){

char ans, lname[30];

int succ=0;

printf("Do you want to delete Record [Y/N]: ");

scanf("%s", &ans);

if(toupper(ans)== 'Y')

{

do{

printf("Enter Last name to be deleted: ");

scanf("%s", &lname);

a = fopen("patient.txt","r");

t = fopen("temp.txt","w");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment)!=EOF)

{

// start of while

if(strcmp(lname,patient.lname)==0)//if the same name

{

printf("\nPatients lastname: %s", patient.lname);

printf("\nAre you sure you want to delete this Record[Y/N]");

scanf("%s", &ans);

if(toupper(ans)== 'Y')

{

printf("\nSuccesfully Deleted");

succ=1;

}

else{

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

succ=1;

}

}//end of not the same

else{//not the same

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

}

}//end of while scanf

fclose(a);

fclose(t);

remove("patient.txt");

rename("temp.txt","patient.txt");

if(succ==0){

printf("\nPatient not found");

}

getch();

printf("\nDo you want to delete more[Y/N]:");

scanf("%s", &ans);

}while(toupper(ans)=='Y');

system("pause");

main\_menu();

}// end of toupper

}

//-----------------------------------------------------------------------------//

void update(){

char answer, laname[30];

int success=0;

system("cls");

printf("\nDo you want to update a file (N/Y): ");

scanf("%s", &answer);

if(toupper(answer)=='Y'){

do{

printf("Enter the Patient lastname to Update: ");

scanf("%s",&laname);

a = fopen("patient.txt","r");

t = fopen("temp.txt", "w");

while(fscanf(a,"%d%d%d%d%s%s%s%d%s%d%s%s%s%s%d%d%f", &patient.patientnum, &patient.month, &patient.day, &patient.year, &patient.lname, &patient.fname, &patient.mname, &patient.age, &patient.gender, &patient.house\_num, &patient.street, &patient.barangay, &patient.city, &patient.room, &patient.floor\_num, &patient.room\_num, &patient.downpayment) != EOF){

// start of while scanf

if(strcmp(laname,patient.lname)==0)// if the same last name

{ system("cls");

printf("Choose the info you want to update:\t");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\n\t\t |(1) - PATIENT NUMBER |\n");

printf("\n\t\t |(2) - ADMISSION DATE |\n");

printf("\n\t\t |(3) - NAME |\n");

printf("\n\t\t |(4) - AGE |\n");

printf("\n\t\t |(5) - GENDER |\n");

printf("\n\t\t |(6) - ROOM TYPE |\n");

printf("\n\t\t |(7) - FLOOR NUMBER |\n");

printf("\n\t\t |(8) - ROOM NUMBER |\n");

printf("\n\t\t |(9) - DOWNPAYMENT |\n");

printf("\n\t\t |(0) - RETURN TO MENU |\n");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \n");

choice = getch();

switch(choice){//case opening

case '1':

{

system("cls");

printf("New patient number:");

scanf("%d", &input.patientnum);

patient.patientnum = input.patientnum;

break;

}

case '2':

{ system("cls");

do

{ //Date admitted loop if wrong input

system("cls");

printf("Date of admission:");

printf("\nMonth:");

scanf("%d", &input.month);

printf("\nDay:");

scanf("%d", &input.day);

printf("\nYear:");

scanf("%d", &input.year);

}while((input.month > 12) || (input.day > 31) || (input.year > 2016));

patient.month = input.month;

patient.day = input.day;

patient.year = input.year;

break;

}

case '3':

{ system("cls");

int want;

printf("\t\t Choose the info you want to update:\t\n\n");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("\n\t\t |(1) - LAST NAME |\n\n");

printf("\n\t\t |(2) - FIRST NAME |\n\n");

printf("\n\t\t |(3) - MIDDLE NAME |\n\n");

printf("\n\t\t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n");

printf("Your choice?");

scanf("%d", &want);

if(want == 1)

{

printf("New last name:");

scanf("%s", &input.lname);

strcpy(patient.lname, input.lname);

}

if(want == 2)

{

printf("New first name:");

scanf("%s", &input.fname);

strcpy(patient.fname, input.fname);

}

if(want == 3)

{

printf("New middle name");

scanf("%s", &input.mname);

strcpy(patient.mname, input.mname);

}

break;

}

case '4':

{

system("cls");

printf("New age:");

scanf("%d", &input.age);

patient.age = input.age;

break;

}

case '5':

{

system("cls");

printf("New gender:");

scanf("%s", &input.gender);

strcpy(patient.gender, input.gender);

break;

}

case '6':

{

system("cls");

printf("\nRoom type:\n1 if Nursery\n2 if Ward\n3 if Private\n4 if V.I.P \n\nInput:");

scanf("%d", &input.room\_type);

if(input.room\_type == 1)

{

strcpy(patient.room, "Nursery");

}

if(input.room\_type == 2)

{

strcpy(patient.room, "Ward");

}

if(input.room\_type == 3)

{

strcpy(patient.room, "Private");

}

if(input.room\_type == 4)

{

strcpy(patient.room, "V.I.P");

}

break;

}

case '7':

{

system("cls");

printf("New floor number:");

scanf("%d", &input.floor\_num);

patient.floor\_num = input.floor\_num;

break;

}

case '8':

{

system("cls");

printf("New room number:");

scanf("%d", &input.room\_num);

patient.room\_num = input.room\_num;

break;

}

case '9':

{

system("cls");

printf("New amount of downpayment:");

scanf("%f", &input.downpayment);

patient.downpayment = input.downpayment;

break;

}

case '0':

{

system("cls");

main\_menu();

break;

}

default:

{

system("cls");

main\_menu();

break;

}

}//case closing

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

printf("\n\n Patient was successfully Updated!!! press Enter to continue!");

success=1;

} // end of found

else{ //not the same

fprintf(t,"%d\t%d\t%d\t%d\t%s\t%s\t%s\t%d\t%s\t%d\t%s\t%s\t%s\t%s\t%d\t%d\t%.2f\n",patient.patientnum, patient.month, patient.day, patient.year, patient.lname, patient.fname,patient.mname, patient.age, patient.gender, patient.house\_num, patient.street, patient.barangay, patient.city,patient.room, patient.floor\_num, patient.room\_num, patient.downpayment);

} //end of not found

}// end of while fscanf

fclose(a);

fclose(t);

remove("patient.txt");

rename("temp.txt","patient.txt");

if(success==0){

printf("\nRecord not Found!!");

}

getch();

printf("\nDo you want to Edit more [Y/N]: ");

scanf("%s", &answer);

}//end of do

while(toupper(answer)== 'Y');

system("pause");

main\_menu();

}//end of toupper

}

//END OF PROGRAM//

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