**SYSTEM WALKTHROUGH**

Our system works first with our GUI (Graphic User Interface)

1. **GUI:** You can see a text where it says that you can press any key to access and proceed to the main menu.
2. **MAIN MENU:**

Our main menu is made up of switch, where we use case to our main program, each case is consist of different function inside a program.

**This Shows the Main Menu of our System:**

**Main(){**

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();

read\_bill();

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 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");

}

}

}// END OF THE MAIN\_MENU

**SWITCH statements:**

**Options:**

**Case 1:** If you select case number 1, it is a function that adds a patient in the command prompt (CMD).There is a certain text where you can input the asked information. It opens a text file where we can view the added patient. After you’ve added a patient it always go back to our main\_menu, because of the loops that we use.

**Case 2:** If you select case 2. A function that can search for a patients record with the mode in our file, we open a file in our function and its mode is to read, you can search for records, in that function where you can see 2 copies of the record one for the patient and another one for the hospital.

**Case 3**: Selecting case 3. This option is to view all the patients that is added in the text file, we used read mode to view all the patient that is checked in the hospital.

**Case 4:** Selects case 4. The main function of this option is to calculate the patiens bill, this include searching, and viewing of a patient to calculate its total bill for the stay in the hospital. After the calculation it displays all the paid charges and its total amount, it opens a new file record, the name of the file is BILL. The total bill is stored in the file, together with the information of the patient. Most likely it is also a patient’s record with their total bill.

**Case 5:** Selecting case number 5, this function is to update a patient’s record, with every information you desire to update, most likely editing a patients record, we used the mode reading and writing for the file to view the patient and to update any information.

**Case 6:** Selecting option 6, this case contains the function of deleting any data/information of a patient, most likely if a patient is transferred to another hospital, you can delete any information all, in that case it will also be deleted in the certain file, but the bill of the patient is not deleted in the other file for taxes charges of the hospital, a review of their profits.

**Case 7:** Selecting case 7, is just to exit the system.

**Case 0:** This case shows the developer and the programmers of the system that is used in the Hospital. It shows the information that you need to know why this program was created. And the names of the developer.

1. The **Program is Terminated** when a user inputs a non-applicable option in a program also a part of the switch.

**The Default:** The system is terminated when a user selects an option that is not shown in the program, It prints a text Saying(“Invalid input the program will terminate!!); it automatically exits.

//DEVELOPERS//

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