



# **HOSPITAL MANAGEMENT** **SYSTEM**

**DONE BY:**

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## **AIM:**

The aim of the Hospital Management System Software is to design a system that manages the aspects of a hospital. This may include the administrative, financial, and medical processing.

## **SYNOPSIS:**

The project Hospital Management System (HMS) is for computerizing the working in a hospital. It is a great improvement over the manual system. The computerization of the system has speed up the process. In the current system, the front office managing is very slow. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to maintain the patient's record and it's a seamless flow.

The system also stores the patient data in a well defined manner. The patient details include his name, number, address and various health parameters and resources being used by them. It also maintains all doctors information.

This will help the doctors or users to view the records of the patients immediately whenever necessary. This software also has the ability to add, update and delete the record whenever needed. This project will help to smoothen the process of the hospital. The application will be password protected. User will have to enter correct password in order to access the application.

Every time the program is executed the following menu is displayed:

1. Addition of new Record
2. Display the List
3. Delete a List
4. Searching the Record using Patient Name
5. Disease wise report
6. Doctor wise report
7. Modify the record
8. Quit

## **ADVANTAGES OF THE PROGRAM:**

- User friendly
- Interactive
- Minimum time required

- Better Administration Control
- Minimized documentation and no duplication of records.
- Reduced paper work.
- Improved Patient Care

### **USES:**

- Useful to store and maintain the complete details of the patient
- The project can be implemented in government or private hospitals.

### **WHY THIS PROJECT?**

This is software system incorporates various factors needed for smooth working and management of a hospital. This hospital management system allows administrator to store and manage various resources according to patients and doctor's requirements. The project is developed to eliminate human efforts in managing hospital records and data manually.

### **SYSTEM REQUIREMENTS:**

#### **Hardware and Software Requirements:**

##### **Computer**

- Pentium(R) Dual-Core CPU
- E5800@3.20GHz
- 3.20GHz, 992MB of RAM
- Physical Address Extension

Hard Disc=300GB

##### **Mouse**

- Optical

##### **Keyboard**

- Standard.PS/2

## Monitor

- 1366 by 768 pixels

## Operating System:

- Microsoft Windows XP Professional Version 2002 Service Pack 2 TC Version = 3.1/4.0

## **HEADER FILES USED AND ITS PURPOSE:**

**stdio.h:** This header file contains declarations of the standard input and output functions available in the C++ which is used for getting the input and print the output.

**conio.h:** This header file is used mostly by MS-DOS compilers to provide console input/output.

**string.h:** This header file enables you to manipulate strings.

**fstream.h:** This header is part of the input/output library.

**iostream.h:** This header file includes functions involving memort allocations, process control.

**process.h:** This header file contains function declarations and macros used in working with threads and processes.



## **ALGORITHM:**

**Step 1:** Start the process

**Step 2:** Declare name, sex, age, add\_date, address, phone, bed, doc, disease, doc\_phone, release, doc\_address, unit respectively inside a structure called hospital.

**Step 3:** Display the menu of actions that should be taken by the user.

**Step 4:** If the user wants to add, delete, display, modify or to search a patient's record respectively, then he must invoke void addition(int &), void delete1(int ),void display(int ), void modi(int ), or void search(int ).

**Step 5:** If the user wants to display the records either by disease wise or by doctor wise, then he must invoke void disease(int ) or void doc(int ).

**Step 6:** Invoke the main function.

**Step 7:** In a do-while loop, while(n!=8) stands true, menu() function is called repeatedly and the user's choice is passed in switch case.

**Step 8:** In case 1: addition() function is invoked, case 2: display() function is invoked, case 3: delete1() and display() functions are invoked, case 4: search() function is invoked, case 5: disease() function is invoked, case 6: doc () function is invoked, case 7: modi() function is invoked, and in case 8: exit(0) function is invoked.

**Step 9:** In order to add a record, void addition(int ) is invoked. The data file "HOSPITAL.DAT" is opened in, in mode and binary mode and it gets all the information of the patient and writes onto the file.

**Step 10:** In order to delete a record, void delete1(int ) is invoked. The data files “HOSPITAL.DAT” is opened in, in-mode, out-mode and binary-mode, and “temp1.dat” is opened in out-mode and binary-mode. It gets the name of the patient to be deleted and copies the record of all patients except that particular recode that had to deleted, to the temp1 file and renames it as “HOSPITAL.DAT”.

**Step11:** In order to search a record, void search(int ) is invoked. It opens the file “HOSPITAL.DAT” and gets the name of the patient to be searched. It compares the name with the records and if founded, the displays the patient’s details. If not founded, then displays error message.

**Step 12:** In order to display the records disease wise, then void disease(int ) is invoked. The file “HOSPITAL.DAT” is opened and gets the disease of the patient. It searches for the disease and displays the records of the patients who have that disease. If no records found, then displays error message.

**Step 13:** In order to display the records doctor wise, the void doc(int ) is invoked. Instead of disease, doctor’s name is taken from the user and repeats step 12.

**Step 14:** In order to display all records, void display(int ) is invoked. The file “HOSPITAL.DAT” is opened and using a for-loop, the details are displayed.

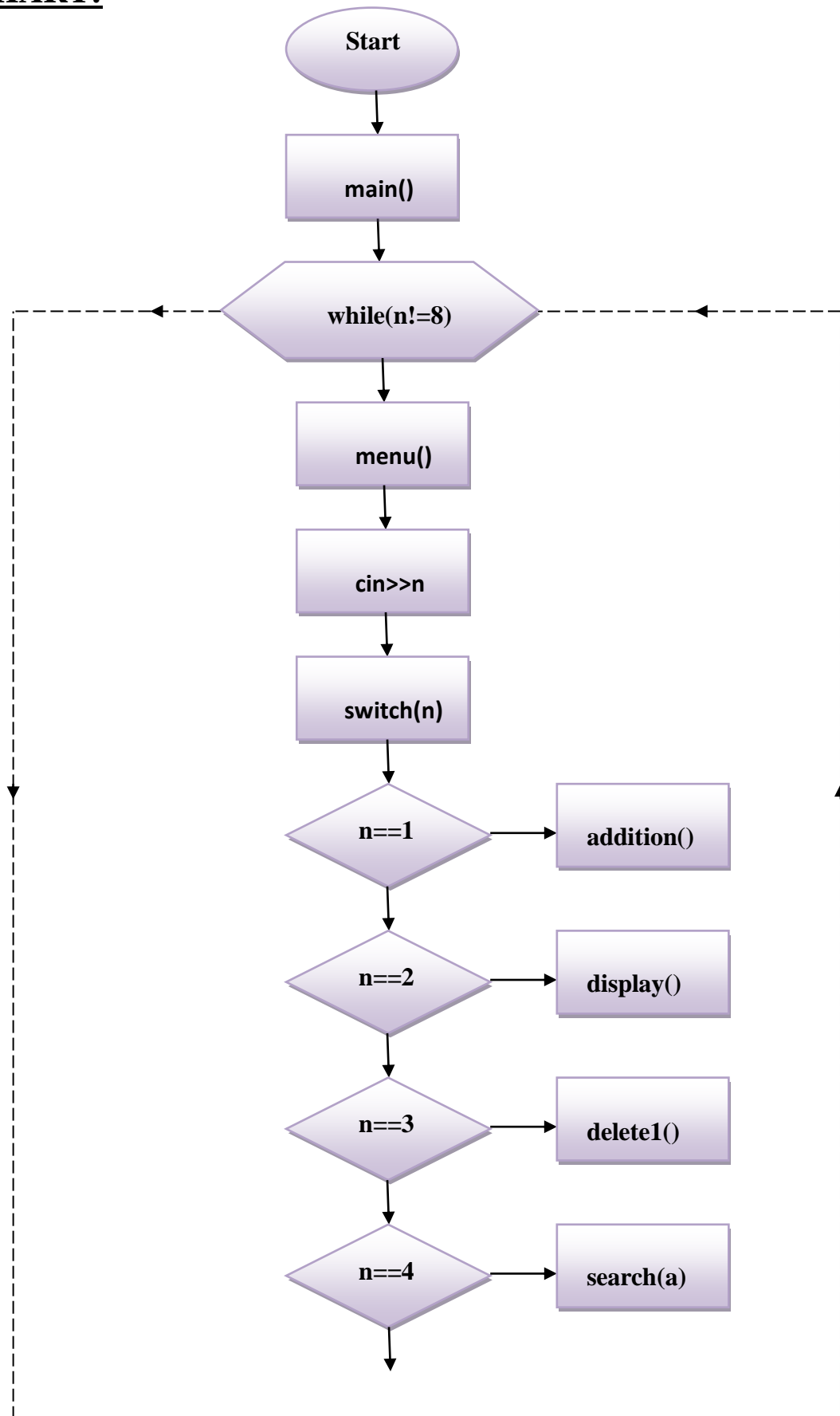
**Step 15:** In order to modify the record, void modi(int ) is invoked. The files “HOSPITAL.DAT” and “temp1.dat” is opened. Its gets the name of the patient to be modified. If the record found, then it writes all records except that recode to be modified into the temp1 file and renames “temp1.dat” to “HOSPITAL.DAT”.

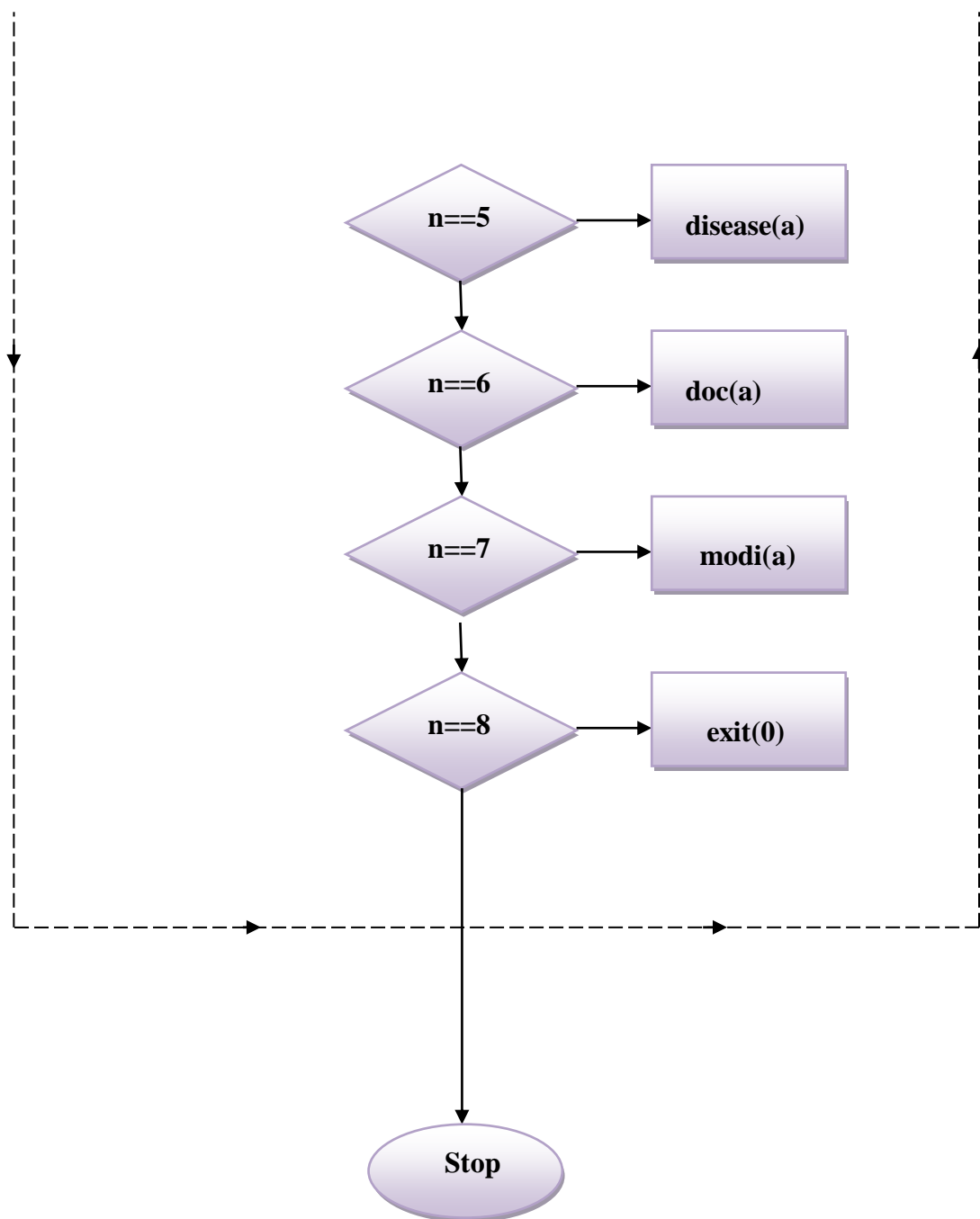
**Step 16:** Then it opens “HOSPITAL.DAT” again to enter the modified values of the record. If the recode not found then, it displays an error message.

**Step 17:** Stop the process.



## FLOWCHART:





## SOURCE CODE:

```
/*
*****
*
*   HEADER FILES USE IN THE PROGRAM   *
*
*****
*/
#include<iostream.h>
#include<conio.h>
#include<stdio.h>
#include<fstream.h>
#include<string.h>
#include<process.h>
#define max 100
/*
*****
*
*   STRUCTURE USED IN THE PROGRAM   *
*
*****
*/
struct hospital      //a structure named hospital
{
    char name[25];
    char sex[6];
    int age;
    char add_date[20];
    char address[50];
    char phone[20];
    char bed[20];
    char doc[25];
    char disease[20];
    char doc_phone[20];
    char release[20];
    char doc_address[50];
    char unit[10];
}patient[max];      //object for the structure
```

```

/*
*****
*
*   FUNCTIONS USED IN THE PROGRAM
*
*****
*/

void search(int a)    //a function to search patient's record
{
    fstream infile;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    infile.seekg(ios::beg);
    char name11[20];
    int found=0;
    for(int i=0;i<80;i++)
        cout<<'=';
    cout<<"\n\n\tSEARCH PATIENT'S RECORD\n\n";
    for(i=0;i<80;i++)
        cout<<'=';
    cout<<"\n\n\tEnter Name of the patient to be searched:";
    gets(name11);
    for(int t=0;t<a;t++)
    {
        infile.read((char*)&patient[t],sizeof(patient[t]));
        if(strcmpi(name11,patient[t].name)==0)
        {
            cout<<"Patient Name:"<<patient[t].name;
            cout<<"\nAge:"<<patient[t].age;
            cout<<"\nSex:"<<patient[t].sex;
            cout<<"\nAddress:"<<patient[t].address;
            cout<<"\nTelephone No:"<<patient[t].phone;
            cout<<"\nDisease:"<<patient[t].disease;
            cout<<"\nAddimision Data:"<<patient[t].add_date;
            cout<<"\nDate of Release:"<<patient[t].release;
            cout<<"\nBed No:"<<patient[t].bed;
            cout<<"\nUnit:"<<patient[t].unit;
            cout<<"\nDoctor Name:"<<patient[t].doc;
            cout<<"\nDoctor Ph No:"<<patient[t].doc_phone;
            cout<<"\nDoctor Address:"<<patient[t].doc_address<<endl;
            cout<<"Press any key to return to main menu..."<<endl;
            found++;
            getch();
            clrscr();
        }
    }
}

```

```

    }
    if(found==0)
    {
        cout<<"Sorry, data not found!!"<<endl;
        cout<<"Press any key to return to main menu..."<<endl;
        getch();
    }
    getch();
    infile.close();
}

void addition(int &i)    //a function to add patient's record
{
    fstream infile;
    int n;
    infile.open("HOSPITAL.DAT",ios::in|ios::binary);
    for(int a=0;a<80;a++)
        cout<<'=';
    cout<<"\n\n\tADDITION OF A PATIENT'S RECORD\n\n";
    for(a=0;a<80;a++)
        cout<<'=';
    cout<<"\n\tEnter the information:\n\n";
    cout<<" Name:";
    gets(patient[i].name);
    cout<<"Sex (M/F):";
    cin>>patient[i].sex;
    cout<<"Age:";
    cin>>patient[i].age;
    cout<<"Admission Date of the Patient:";
    gets(patient[i].add_date);
    cout<<"Phone Number of the Patient:";
    gets(patient[i].phone);
    cout<<"Bed Number:";
    cin>>patient[i].bed;
    cout<<"DOCTOR's Name:";
    gets(patient[i].doc);
    cout<<"Disease:";
    gets(patient[i].disease);
    cout<<"DOCTOR's Phone Number:";
    gets(patient[i].doc_phone);
    cout<<"Date of Release from the Hospital:";
    gets(patient[i].release);
    cout<<"DOCTOR's Address:";

```

```

    gets(patient[i].doc_address);
    cout<<"Unit:";
    gets(patient[i].unit);
    cout<<"\tStoring on to the file...";
    infile.write((char*)&patient[i],sizeof(patient[i]));
    infile.close();
    cout<<"\n\tPress any key to return to the main menu"<<endl;
    getch();
}
int menu()          //a menu function to display the menu
{
    int a;
    clrscr();
    for(int i=0;i<80;i++)
        cout<<'=';
    cout<<"\n\n\tWELCOME TO OUR HOSPITAL PATIENT ADDMISSION
SYSTEM\n\n";
    for(i=0;i<80;i++)
        cout<<'=';
    cout<<" \t***** MENU ***** \n\n";
    cout<<" 1.Addition of new Record\n";
    cout<<" 2.Display the List\n";
    cout<<" 3.Delete a record\n";
    cout<<" 4.Searching the record using patient name\n";
    cout<<" 5.Disease wise report\n";
    cout<<" 6.Doctor wise report \n";
    cout<<" 7.Modify the record \n";
    cout<<" 8.Quit\n";
    for(i=0;i<80;i++)
        cout<<'=';
    cout<<"\nYour Option:";
    cin>>a;
    return(a);
}
void modi(int a)     //a function to modify patient's record
{
    fstream infile;
    fstream tfile;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    infile.seekg(ios::beg);
    char name1[30];
    int i,found=0;

```



```

tfile.open("temp1.dat",ios::out|ios::binary);
for(int b=0;b<80;b++)
    cout<<'=';
cout<<"\n\n\t\tMODIFICATION OF A PATIENT'S RECORD\n\n";
for(b=0;b<80;b++)
    cout<<'=';
cout<<"\n\n\tEnter the Name of the patient to modified:";
gets(name1);
for(int t=0;t<a;t++)
{
    infile.read((char*)&patient[t],sizeof(patient[t]));
    if(strncmp(name1,patient[t].name)!=0)
    {
        tfile.write((char*)&patient[t],sizeof(patient[t]));
        i=t;
        found++;
    }
}
if(found==0)
{
    cout<<"\n\n\t\tPATIENT'S RECORD NOT FOUND!";
    cout<<"\n\n\tPress any key to return to main menu..";
    getch();
}
infile.close();
tfile.close();
remove("HOSPITAL.DAT");
rename("temp1.dat","HOSPITAL.DAT");
infile.open("HOSPITAL.DAT",ios::app|ios::out|ios::binary);
clrscr();
for(b=0;b<80;b++)
    cout<<'=';
cout<<"\n\n\t\tENTER PATIENT'S DETAILS FOR MODIFICATION\n\n";
for(b=0;b<80;b++)
    cout<<'=';
cout<<"\n\n\tEnter the following information:\n\n";
cout<<"Name:";
gets(patient[i].name);
cout<<"Sex (M/F):";
cin>>patient[i].sex;
cout<<"Age:";
cin>>patient[i].age;

```

```

cout<<"Admission Date of the Patient:";
gets(patient[i].add_date);
cout<<"Phone Number of the Patient:";
gets(patient[i].phone);
cout<<"Bed Number:";
cin>>patient[i].bed;
cout<<"DOCTOR's Name:";
gets(patient[i].doc);
cout<<"Disease:";
gets(patient[i].disease);
cout<<"DOCTOR's Phone Number:";
gets(patient[i].doc_phone);
cout<<"Date of Release from the Hospital:";
gets(patient[i].release);
cout<<"DOCTOR's Address:";
gets(patient[i].doc_address);
cout<<"Unit:";
gets(patient[i].unit);
cout<<"\n\tPATIENT'S RECORD IS MODIFIED!"<<endl;
getch();
infile.write((char*)&patient[i],sizeof(patient[i]));
infile.close();
}

void disease(int a)    //a function to display the patient's records
{
    // according to the disease
    fstream infile;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    infile.seekg(ios::beg);
    char name1[30];
    int found=0;
    for(int b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tDISPLAY RECORDS BY DISEASE\n\n";
    for(b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tEnter Disease of the Patient:";
    gets(name1);
    for(int t=0;t<a;t++)
    {
        infile.read((char*)&patient[t],sizeof(patient[t]));
        if(strcmpi(name1,patient[t].disease)==0)
        {
            cout<<"Record "<<t+1<<" of "<<a;
            cout<<"\nPatient Name:"<<patient[t].name;
            cout<<"\nAge:"<<patient[t].age;

```

```

        cout<<"\nSex:"<<patient[t].sex;
        cout<<"\nAddress:"<<patient[t].address;
        cout<<"\nTelephone No:"<<patient[t].phone;
        cout<<"\nDisease:"<<patient[t].disease;
        cout<<"\nAddimision Data:"<<patient[t].add_date;
        cout<<"\nDate of Release:"<<patient[t].release;
        cout<<"\nBed No:"<<patient[t].bed;
        cout<<"\nUnit:"<<patient[t].unit;
        cout<<"\nDoctor Name:"<<patient[t].doc;
        cout<<"\nDoctor Ph No:"<<patient[t].doc_phone;
        cout<<"\nDoctor Address:"<<patient[t].doc_address;
        found++;
        getch();
        clrscr();
    }
}
if(found==0)
{
    cout<<"No records found with disease ";
    puts(name1);
    getch();
}
infile.close();
}
void doc(int a)          //a function to display the patient's records
{
    //according to doctor's name
    fstream infile;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    infile.seekg(ios::beg);
    char name1[30];
    int found=0;
    for(int b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\t\tDISPLAY THE RECORDS BY DOCTOR'S NAME\n\n";
    for(b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\t\tEnter Doctor's Name:";
    gets(name1);
    for(int t=0;t<a;t++)
    {
        infile.read((char*)&patient[t],sizeof(patient[t]));
        if(strcmpi(name1,patient[t].doc)==0)
        {
            cout<<"Record "<<t+1<<" of "<<a<<endl;
            cout<<"Patient Name:"<<patient[t].name;
            cout<<"\nAge:"<<patient[t].age;
            cout<<"\nSex:"<<patient[t].sex;

```

```

        cout<<"\nAddress:"<<patient[t].address;
        cout<<"\nTelephone No:"<<patient[t].phone;
        cout<<"\nDisease:"<<patient[t].disease;
        cout<<"\nAddimision Data:"<<patient[t].add_date;
        cout<<"\nDate of Release:"<<patient[t].release;
        cout<<"\nBed No:"<<patient[t].bed;
        cout<<"\nUnit:"<<patient[t].unit;
        cout<<"\nDoctor Name:"<<patient[t].doc;
        cout<<"\nDoctor Ph No:"<<patient[t].doc_phone;
        cout<<"\nDoctor Address:"<<patient[t].doc_address;
        found++;
        getch();
        clrscr();
    }
}
if(found==0)
{
    cout<<"No record is found with doctor's name ";
    puts(name1);
    getch();
}
infile.close();
}
void delete1(int a)    //function to delete a patient's record
{
    fstream infile;
    fstream tfile;
    char name1[30];
    int found=0;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    tfile.open("temp1.dat",ios::out|ios::binary);
    infile.seekg(ios::beg);
    for(int b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tDELETION OF A RECORD\n\n";
    for(b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tEnter the Name of the patient whose record is to be deleted:";
    gets(name1);
    for(int t=0;t<a;t++)
    {
        infile.read((char*)&patient[t],sizeof(patient[t]));
        if(strcmpi(name1,patient[t].name)!=0)
        {
            tfile.write((char*)&patient[t],sizeof(patient[t]));
            found++;
        }
    }
}

```

```

    }
    if(found==0)
    {
        cout<<"\n\n\tPATIENT'S RECORD NOT FOUND!"<<endl;
        cout<<"Press any key to return to main menu..."<<endl;
    }
    infile.close();
    tfile.close();
    remove("HOSPITAL.DAT");
    rename("temp1.dat","HOSPITAL.DAT");
    getch();
}

void display(int a)    //a function to display all records
{
    fstream infile;
    int found=0;
    infile.open("HOSPITAL.DAT",ios::in|ios::out|ios::binary);
    for(int b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tDISPLAY THE RECORDS\n\n";
    for(b=0;b<80;b++)
        cout<<'=';
    cout<<"\n\n\tReading From the File:\n"<<endl;
    infile.seekg(ios::beg);
    for(int t=0;t<a;t++)
    {
        infile.read((char*)&patient[t],sizeof(patient[t]));
        cout<<" Record Number "<<(t+1)<<" out of "<<a<<" records";
        cout<<"\n===== \n";
        cout<<"Patient Name:"<<patient[t].name;
        cout<<"\nAge:"<<patient[t].age;
        cout<<"\nSex:"<<patient[t].sex;
        cout<<"\nAddress:"<<patient[t].address;
        cout<<"\nTelephone No:"<<patient[t].phone;
        cout<<"\nDisease:"<<patient[t].disease;
        cout<<"\nAddimision Data:"<<patient[t].add_date;
        cout<<"\nDate of Release:"<<patient[t].release;
        cout<<"\nBed No:"<<patient[t].bed;
        cout<<"\nUnit:"<<patient[t].unit;
        cout<<"\nDoctor Name:"<<patient[t].doc;
        cout<<"\nDoctor Ph No:"<<patient[t].doc_phone;
        cout<<"\nDoctor Address:"<<patient[t].doc_address;
        found++;
        getch();
        clrscr();
    }
}

```



```

    }
    if(found==0)
    {
        clrscr();
        cout<<"No Records entered!!"<<endl;
        cout<<"Press any key to reutrn to main menu..."<<endl;
        getch();
    }
    infile.close();
}
/*
*****
*
*   MAIN FUNCTION OF THE PROGRAM   *
*
*****
*/
void main()
{
    clrscr();
    int n,a=0;
    do
    {
        n=menu();
        switch(n)
        {
            case 1 : clrscr();
                    addition(a);
                    a++;
                    break;
            case 2 : clrscr();
                    display(a);
                    break;
            case 3 : clrscr();
                    delete1(a);
                    display(a);
                    break;
            case 4 : clrscr();
                    search(a);
                    break;
            case 5 : clrscr();
                    disease(a);
                    break;
            case 6 : clrscr();
                    doc(a);

```



```
        break;
    case 7 : clrscr();
        modi(a);
        break;
    case 8 : exit(0);
    }
}while(n!=8);
getch();
}
```

## OUTPUT SCREENSHOTS:

```
=====
                        WELCOME TO OUR HOSPITAL PATIENT MANAGEMENT SYSTEM
=====
                        ***** MENU *****
1.Addition of new Record
2.Display the List
3.Delete a record
4.Searching the record using patient name
5.Disease wise report
6.Doctor wise report
7.Modify the record
8.Quit
=====
Your Option:1_
=====
```

## =====

### ADDITION OF A PATIENT'S RECORD

## =====

Enter the information:

Name:Raj  
Sex (M/F):M  
Age:33  
Admission Date of the Patient:12/04/2018  
Phone Number of the Patient:9243174561  
Bed Number:2  
DOCTOR's Name:Kamal  
Disease:typhoid  
DOCTOR's Phone Number:877846435  
Date of Release from the Hospital:03/05/2018  
DOCTOR's Address:T.T.K. Road, Chennai  
Unit:1  
Storing on to the file...  
Press any key to return to the main menu

## =====

### DISPLAY THE RECORDS

## =====

Reading From the File:

Record Number 1 out of 3 records  
=====

Patient Name:Raj  
Age:33  
Sex:M  
Address:  
Telephone No:9243174561  
Disease:typhoid  
Addimision Data:12/04/2018  
Date of Release:03/05/2018  
Bed No:2  
Unit:1  
Doctor Name:Kamal  
Doctor Ph No:877846435  
Doctor Address:T.T.K. Road, Chennai

Record Number 2 out of 3 records

=====

Patient Name:Kumar  
Age:25  
Sex:M  
Address:  
Telephone No:7655588556  
Disease:Heart Disease  
Addimision Data:30/05/2018  
Date of Release:26/06/2018  
Bed No:4  
Unit:2  
Doctor Name:Singh  
Doctor Ph No:8997668854  
Doctor Address:Alvarpet, Chennai

Record Number 3 out of 3 records

=====

Patient Name:Sharma  
Age:22  
Sex:M  
Address:  
Telephone No:9948755332  
Disease:Typhoid  
Addimision Data:22/07/2018  
Date of Release:30/08/2018  
Bed No:6  
Unit:3  
Doctor Name:Singh  
Doctor Ph No:885948576  
Doctor Address:Alvarpet, Chennai

## SEARCH PATIENT'S RECORD

Enter Name of the patient to be searched:Kumar

Patient Name:Kumar

Age:25

Sex:M

Address:

Telephone No:7655588556

Disease:Heart Disease

Addimision Data:30/05/2018

Date of Release:26/06/2018

Bed No:4

Unit:2

Doctor Name:Singh

Doctor Ph No:8997668854

Doctor Address:Alvarpet, Chennai

Press any key to return to main menu...

## DISPLAY RECORDS BY DISEASE

Enter Disease of the Patient:Typhoid

Record 1 of 3

Patient Name:Raj

Age:33

Sex:M

Address:

Telephone No:9243174561

Disease:typhoid

Addimision Data:12/04/2018

Date of Release:03/05/2018

Bed No:2

Unit:1

Doctor Name:Kamal

Doctor Ph No:877846435

Doctor Address:T.T.K. Road, Chennai\_

Record 3 of 3  
Patient Name:Sharma  
Age:22  
Sex:M  
Address:  
Telephone No:9948755332  
Disease:Typhoid  
Addimision Data:22/07/2018  
Date of Release:30/08/2018  
Bed No:6  
Unit:3  
Doctor Name:Singh  
Doctor Ph No:885948576  
Doctor Address:Alvarpet, Chennai

=====

DISPLAY THE RECORDS BY DOCTOR'S NAME

=====

Enter Doctor's Name:Singh

Record 2 of 3  
Patient Name:Kumar  
Age:25  
Sex:M  
Address:  
Telephone No:7655588556  
Disease:Heart Disease  
Addimision Data:30/05/2018  
Date of Release:26/06/2018  
Bed No:4  
Unit:2  
Doctor Name:Singh  
Doctor Ph No:8997668854  
Doctor Address:Alvarpet, Chennai\_

Record 3 of 3  
Patient Name:Sharma  
Age:22  
Sex:M  
Address:  
Telephone No:9948755332  
Disease:Typhoid  
Addimision Data:22/07/2018  
Date of Release:30/08/2018  
Bed No:6  
Unit:3  
Doctor Name:Singh  
Doctor Ph No:885948576  
Doctor Address:Alvarpet, Chennai\_

=====

MODIFICATION OF A PATIENT'S RECORD

=====

Enter the Name of the patient to modified:Kumar



=====

ENTER PATIENT'S DETAILS FOR MODIFICATION

=====

Enter the following information:

Name:Dhawan

Sex (M/F):M

Age:30

Addmission Date of the Patient:22/08/2018

Phone Number of the Patient:876695744

Bed Number:5

DOCTOR's Name:Kamal

Disease:Typhoid

DOCTOR's Phone Number:475863928

Date of Release from the Hospital:30/08/2018

DOCTOR's Address:T.T.K. Road, Chennai

Unit:4

PATIENT'S RECORD IS MODIFIED!

=====

DELETION OF A RECORD

=====

Enter the Name of the patient whose record is to be deleted:Raj\_

=====

DISPLAY THE RECORDS

=====

Reading From the File:

Record Number 1 out of 3 records

=====

Patient Name:Sharma  
Age:22  
Sex:M  
Address:  
Telephone No:9948755332  
Disease:Typhoid  
Addimision Data:22/07/2018  
Date of Release:30/08/2018  
Bed No:6  
Unit:3  
Doctor Name:Singh  
Doctor Ph No:885948576  
Doctor Address:Alvarpet, Chennai

Record Number 2 out of 3 records

=====

Patient Name:Dhawan  
Age:30  
Sex:M  
Address:  
Telephone No:876695744  
Disease:Typhoid  
Addimision Data:22/08/2018  
Date of Release:30/08/2018  
Bed No:5  
Unit:4  
Doctor Name:Kamal  
Doctor Ph No:475863928  
Doctor Address:T.T.K. Road, Chennai

### **SCOPE OF IMPROVEMENT:**

1. The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
2. By include graphics, this software can be made more user-friendly.

### **BIBLIOGRAPHY:**

Computer Science with C++ by Sumita Arora