

Team-10



PROBLEM SOLVING **WITH PROGRAMMING**

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B.TECH 1ST YEAR SEMESTER-2

**PROJECT NAME: SIMPLE HOSPITAL
MANAGEMENT SYSTEM**

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2. ABSTRACT

The purpose of the project entitled as “SIMPLE HOSPITAL MANAGEMENT SYSTEM”

This is to computerize the Front Office Management of Hospital to develop software which is user friendly simple, fast, and cost – effective. It deals with the collection of patient’s information, diagnosis details, etc. Traditionally, it was done manually. The main function of the system is register and store patient details and doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully. System input contains patient details, diagnosis details, while system output is to get these details on to the screen. It is accessible either by an administrator or receptionist. Only they can add data into database. The data are well protected for personal use and makes the data processing very fast.

3. INTRODUCTION

The project Hospital Management system includes registration of patients, storing their details into the system . The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. Hospital Management System is designed for multispeciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work

4. MODULE DESCRIPTION

1.READ

2.ADD

3.VIEW

4.SEARCH

5.EDIT

6.DEL

7.SHOW

READ:-This is the module of the system(simple hospital management system) which is use to enter our choice.

ADD:-In this module which is use to add information, i.e., patient name,disease name,phone number,cabin number,age.

View:-In this module which is the view module of system which includes Serial number,cabin number,disease.

Edit:-In this module which is the module for editing the data in the system entering option name,disease,age and cabin number.....

Search:-In this module which is the search module of the system .This is use to search patients information.

Del:-This module is use to remove some patients name,diseases,cabin number ,phone number,age.

5.IMPLEMENTATION

SOURCE CODE:-

```
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
struct ad
{
    char name[30];
    char disease[30];
    int cabin,phone,age;
} x[100];
int n,i,j=0,a=0,sum=0,g,flag,num;
void read();
void add();
void view();
void search();
void edit();
void del();
void show();
void write();
main()
{
    read();
    int c,i,q;
    printf("Simple Hospital Management System\n");
    int m,n;
    //making out the pattern
```



```

for(m=1; m<=4; m++)
{
    for(n=1; n<=5; n++)
        printf(" ");
    for(n=1; n<=m-1; n++)
    {
        printf(" ");
    }
    for(n=1; n<=4-m+1; n++)
    {
        if(n==4-m+1 || m==1 || m==4)
            printf("*");
        else
            printf(" ");
    }
    for(n=1; n<=4-m+1; n++)
    {
        if(n==1 || m==1 || m==4)
            printf("*");
        else
            printf(" ");
    }
    printf("\n");
}
while(c!=6)
{

```

```

    printf("**Enter your choice**\n\n1. Add Information\n2. View
Information\n3. Search\n4. Edit Information\n5. Delete
Information\n6. Exit\n\nOption=");
    scanf("%d",&c);//choice for option
    fflush(stdin);//making it clear

```

```
if(c==1)//add
{
    system("cls");
    add();
}
else if(c==2)//view
{
    system("cls");
    view();
}
else if(c==3)//search
{
    system("cls");
    search();
}
else if(c==4)//edit
{
    system("cls");
    edit();
}
else if(c==5)//delete
{
    system("cls");
    del();
}
else if(c==6)
{
    write();
    return 0;
}
else
{

```

```

        system("cls");
        printf("\n\nInvalid input , try again by using valid inputs");
    }
    printf("\n\n");
}
}
void add()
{
    printf("\n\n");
    printf("Already data inputed on the database =%d\n\n",num);//how
many inputs
    printf("How many entry do you want to add=\n");
    scanf("%d",&n);
    sum=n+num;

    for(i=num,j=0; i<sum; i++)
    {
        printf("\n");
        fflush(stdin);
        printf("Enter patient's Name = ");
        gets(x[i].name);
        fflush(stdin);
        printf("Enter disease = ");
        gets(x[i].disease);
        fflush(stdin);
        printf("Enter the age = ");
        scanf("%d",&x[i].age);
        fflush(stdin);
        printf("Enter cabin no = ");
        scanf("%d",&x[i].cabin);
        fflush(stdin);
        printf("Enter phone number = ");

```

```

        scanf("%d",&x[i].phone);
        fflush(stdin);
        printf("\n");
        j++;
        a++;
        num++;
    }
}
void view()
{
    for(i=0; i<num; i++)
    {
        printf("\n");
        printf("Serial Number=%d\n",i);
        printf("Name = ");
        puts(x[i].name);
        printf("Disease = ");
        puts(x[i].disease);
        printf("Cabin no = %d\nPhone number = 
0%d\nAge=%d",x[i].cabin,x[i].phone,x[i].age);
        printf("\n\n");
    }
}
void edit()
{
    int q,p;
    fflush(stdin);
    printf("What do you want to edit ?\n");
    printf("Enter your option\n");
    printf("1.Name\n2.Disease\n3.Age\n4.Cabin\n5.Phone no.\n");
    printf("Option=");
    scanf("%d",&q);//option

```

```

if(q<=5)
{
    printf("Enter the serial no of that patient= (0 - %d)=",num-1);
    scanf("%d",&p);//serial number
    if(p<num)
    {
        if(q==1)
        {
            fflush(stdin);
            printf("Enter the new name=");
            gets(x[p].name);

        }
        else if(q==2)
        {
            fflush(stdin);
            printf("Enter the new Disease=");
            gets(x[p].disease);
        }
        else if(q==3)
        {
            fflush(stdin);
            printf("Enter the new Age=");
            scanf("%d",&x[p].age);
        }

        else if(q==4)
        {
            fflush(stdin);
            printf("Enter the new Cabin no=");
            scanf("%d",&x[p].cabin);
        }
    }
}

```

```

        else if(q==5)
        {
            fflush(stdin);
            printf("Enter the new Phone no =");
            scanf("%d",&x[p].phone);
        }
    }
    else
    {
        printf("\n\nInvalid Serial \nTry Again !!\n\n");
    }
}
else
{
    printf("\n\nInvalid option\nTry Again!!\n\n");
}
}
void search()
{
    int s,h,f;
    char u[100];
    printf("By what do you want to search ?\n");
    printf("1.Serial no.\n2.Name\n3.Disease\n4.Cabin no.\n5.Phone\n6.Age\n\nOption = ");
    scanf("%d",&h);
    if(h==1)
    {
        printf("Enter Serial number of the patient=");
        scanf("%d",&s);
        if(s<num)
        {

```

```

    printf("\n");
    printf("Serial Number=%d\n",s);
    printf("Name = ");
    puts(x[s].name);
    printf("Disease = ");
    puts(x[s].disease);
    printf("Cabin no = %d\nPhone number = 0%d\nAge =
%d",x[s].cabin,x[s].phone,x[s].age);
    printf("\n\n");
}
else
    printf("\n\nNot Found\n\n");
}
else if(h==2)//problem is here.....
{
    int f=1;
    fflush(stdin);
    printf("Enter your name=");
    gets(u);
    fflush(stdin);
    for(g=0; g<num; g++)
    {
        if(strcmp(u,x[g].name)==0)
        {
            printf("\n");
            printf("Serial Number=%d\n",g);
            printf("Name = ");
            puts(x[g].name);
            printf("Disease = ");
            puts(x[g].disease);
            printf("Cabin no = %d\nPhone number = 0%d\nAge =
%d",x[g].cabin,x[g].phone,x[g].age);

```

```

        printf("\n\n");
        f=0;

    }
}
if(f==1)
    printf("\nNot Found\n");

}
else if(h==3)
{
    int f=1;
    fflush(stdin);
    printf("Enter Disease = ");
    gets(u);
    fflush(stdin);
    for(g=0; g<num; g++)
    {
        if(strcmp(u,x[g].disease)==0)
        {
            printf("\n");
            printf("Serial Number=%d\n",g);
            printf("Name = ");
            puts(x[g].name);
            printf("Disease = ");
            puts(x[g].disease);
            printf("Cabin no = %d\nPhone number = 0%d\nAge = %d",x[g].cabin,x[g].phone,x[g].age);
            printf("\n\n");
            f=0;
        }
    }
}

```



```

    }

}

if(f==1)
    printf("\nNot Found\n");

}
else if(h==4)
{
    int f=1;
    printf("Enter Cabin number = ");
    scanf("%d",&f);
    for(g=0; g<num; g++)
    {
        if(f==x[g].cabin)
        {
            printf("\n");
            printf("Serial Number=%d\n",g);
            printf("Name = ");
            puts(x[g].name);
            printf("Disease = ");
            puts(x[g].disease);
            printf("Cabin no = %d\nPhone number = 0%d\nAge = %d",x[g].cabin,x[g].phone,x[g].age);
            printf("\n\n");
            f=0;
        }
    }

}

if(f==1)

```

```

        printf("Not Found\n\n");

    }
    else if(h==5)
    {
        int f=1;
        printf("Enter Phone number = ");
        scanf("%d",&f);
        for(g=0; g<num; g++)
        {
            if(f==x[g].phone)
            {
                printf("\n");
                printf("Serial Number=%d\n",g);
                printf("Name = ");
                puts(x[g].name);
                printf("Disease = ");
                puts(x[g].disease);
                printf("Cabin no = %d\nPhone number = 0%d\nAge = 
%d",x[g].cabin,x[g].phone,x[g].age);
                printf("\n\n");
                f=0;
            }

        }
        if(f==1)
            printf("Not Found");
    }
    else if(h==6)
    {
        int f=1;
        printf("Enter Age = ");

```

```

scanf("%d",&f);
for(g=0; g<num; g++)
{
    if(f==x[g].age)
    {
        printf("\n");
        printf("Serial Number=%d\n",g);
        printf("Name = ");
        puts(x[g].name);
        printf("Disease = ");
        puts(x[g].disease);
        printf("Cabin no = %d\nPhone number = 0%d\nAge = 
%d",x[g].cabin,x[g].phone,x[g].age);
        printf("\n\n");
        f=0;
    }

}

if(f==1)
    printf("Not Found\n\n");

}
else
    printf("\n\nInvalid input\n\n");
}

void del()
{
    int f,h;
    printf("Enter the serial number of the patient that you want to 
delete=");
    scanf("%d",&f);
    if(f<num)

```

```

{
    printf("What do you want ?\n");
    printf("1.Remove the whole record\n2.Remove Name\n3.Remove
Disease\n4.Remove age\n5.Remove Cabin\n6.Remove phone
number\nOption = ");
    scanf("%d",&h);
    if(h==1)
    {
        while(f<num)
        {
            strcpy(x[f].name,x[f+1].name);
            strcpy(x[f].disease,x[f+1].disease);
            x[f].age=x[f+1].age;
            x[f].cabin=x[f+1].cabin;
            x[f].phone=x[f+1].phone;
            f++;
        }
        num--;
    }
    else if(h==2)
    {
        strcpy(x[f].name,"Cleared");

    }
    else if(h==3)
    {
        strcpy(x[f].disease,"Cleared");
    }
    else if(h==4)
    {
        x[f].age=0;
    }
}

```

```

        else if(h==5)
        {
            x[f].cabin=0;
        }
        else if(h==6)
        {
            x[f].phone=0;
        }

    }
    else
        printf("\n\nInvalid Serial number\n");
}

void read()
{
    FILE *fp = fopen("patient.txt","r");
    if(fp == NULL)
    {
        //create empty file, so that we can open it
        //in the next execution of this program
        fp = fopen("patient.txt","w");
        fclose(fp);
        printf("File does not exist, I JUST CREATED IT, exiting...\n\n\n");
    }

    num = fread(x, sizeof(struct ad),100, fp);
    fclose(fp);
}

void write()
{
    FILE *fp = fopen("patient.txt","w");

```

```

if(fp == NULL)
{
    printf("Error");
    exit(1);

    fwrite(x, sizeof(struct ad),num, fp);

    fclose(fp);
}

```

6.TEST RESULTS:-

```

Simple Hospital Management System
*****
      **
      **
      **
**Enter your choice**

1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit

```

Enter your choice:-1

```

Already data inputed on the database =5

How many entry do you want to add=
3

Enter patient's Name = _

```

Already data inputed on the database =0

How many entry do you want to add=

3

Enter patient's Name = sravani

Enter disease = stomach pain

Enter the age = 18

Enter cabin no = 15

Enter phone number = 9866253647

Enter patient's Name = anuhya

Enter disease = headach

Enter the age = 18

Enter cabin no = 15

Enter phone number = 9876532982

Enter patient's Name = rahul

Enter disease = fever

Enter the age = 18

Enter cabin no = 17

Enter phone number = 89763524123

****Enter your choice****

1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit

Option=2_

Enter your choice:-2

```
Serial Number=0  
Name = sravani  
Disease = stomach pain  
Cabin no = 15  
Phone number = 01276319055  
Age=18
```

```
Serial Number=1  
Name = anuhya  
Disease = headach  
Cabin no = 15  
Phone number = 01286598390  
Age=18
```

```
Serial Number=2  
Name = rahul  
Disease = fever  
Cabin no = 17  
Phone number = 0-430789093  
Age=18
```

****Enter your choice****

1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit

Option=


```
What do you want to edit ?
Enter your option
1.Name
2.Disease
3.Age
4.Cabin
5.Phone no.
Option=1
Enter the serial no of that patient= (0 - 2)=1
Enter the new name=bhargav
```

```
**Enter your choice**
```

```
1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit
```

```
Option=
```

Enter your choice:4

Already data inputed on the database =3

How many entry do you want to add=

2

Enter patient's Name = vaishnavi

Enter disease = thyroid

Enter the age = 18

Enter cabin no = 13

Enter phone number = 9877684932

Enter patient's Name = anunya

Enter disease = chicken guniya

Enter the age = 18

Enter cabin no = 18

Enter phone number = 9823645178

****Enter your choice****

1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit

Option=6

Process exited after 238.1 seconds with return value 0

Press any key to continue . . .

Enter your choice:5

Enter the serial number of the patient that you want to delete=1

What do you want ?

1.Remove the whole record

2.Remove Name

3.Remove Disease

4.Remove age

5.Remove Cabin

6.Remove phone number

Option = 1

****Enter your choice****

1. Add Information

2. View Information

3. Search

4. Edit Information

5. Delete Information

6. Exit

Option=

Enter your choice:6

```
Already data inputed on the database =3

How many entry do you want to add=
2

Enter patient's Name = vaishnavi
Enter disease = thyroid
Enter the age = 18
Enter cabin no = 13
Enter phone number = 9877684932

Enter patient's Name = anunya
Enter disease = chicken guniya
Enter the age = 18
Enter cabin no = 18
Enter phone number = 9823645178

**Enter your choice**

1. Add Information
2. View Information
3. Search
4. Edit Information
5. Delete Information
6. Exit

Option=6

-----
Process exited after 238.1 seconds with return value 0
Press any key to continue . . .
```

7.CONCLUSION:

By this simple mini project (simple hospital management system) we can conclude that we learnt many things how to add different kinds of information and how to rectify errors .coming to project It gives the information about patients information that includes Patient's name,disease,serial no,cabin no,phone number,age.use to search patient's information.And this gives about the addition or removal of patient's information(editing and delete)

FUTURE SCOPE:

The implementation of hospital management system project provides the institution with different advantages that improve the service quality and efficiency. Taking about features of this hospital management system in c ,the user can perform the CRUD Operations to it.like,add patient details by entering his/her name,disease name,phone number,cabin number.the user can also View all the available patient records.such as details and search a patient by its name,age,disease,cabin number.Besides,the user can edit information as well as remove a patient whole data or name,disease,cabin number,phone number.This project may help in future it is very simple to know about patients data in hospital.It is easy to administration and receptionist To give patient's data in hospital.

