



# Hospital Management Software

Automation Solution For Patient Management



**WELCOME**

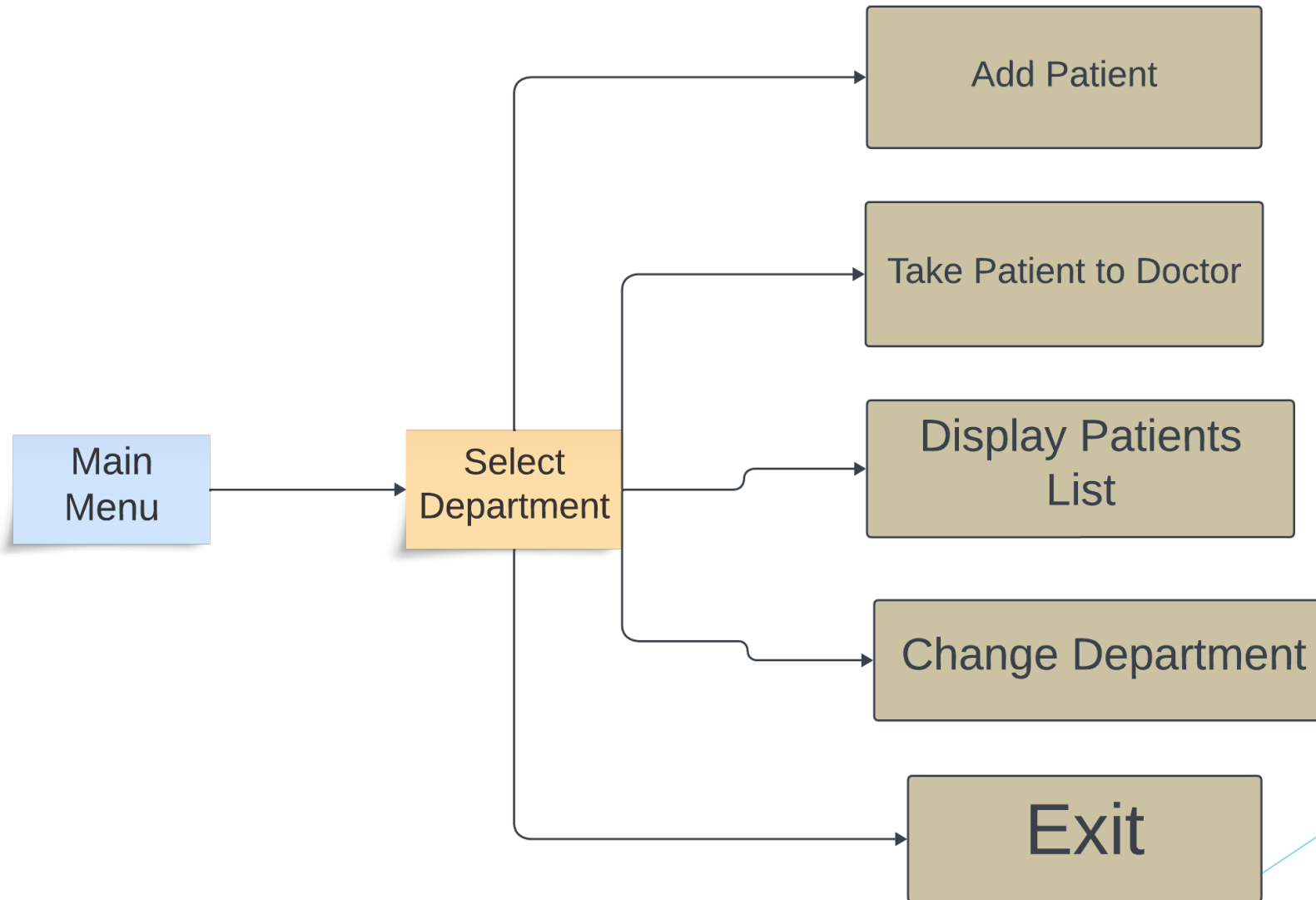
**We are Mahedi Hasan and Nafisa Shamim presenting you guys hospital management system.**



## MAIN FEATURES

- ✓ DEPARTMENT SELECTION
- ✓ PATIENT REGISTRATION
- ✓ PATIENT DETAILS DISPLAY
- ✓ IDENTIFICATION OF CRITICAL PATIENT
- ✓ AVAILABLE DOCTOR
- ✓ DELIVERING PATIENTS DETAILS TO DOCTOR

# Data Flow Diagram



# Main Menu

[illegible]

# CODE

## OUTPUT


```
|-- HOSPITAL MANAGEMENT SYSTEM --|
```

## Main Menu

```
1: GENERAL CLINIC
2: HEART CLINIC
3: LUNG CLINIC
4: PLASTIC SURGERY
5: Exit
```

Please enter your choice :

## Facilities of each Unit

 HMS.cpp X

D: > Mehedi > HMS.cpp

[illegible]

# CODE

## OUTPUT

```
|-- HOSPITAL MANAGEMENT SYSTEM --|
```

## GENERAL CLINIC

```
[1] Add normal patient
[2] Add critically ill patient
[3] Take patient to Doctor
[4] Display list
[5] Change department or exit
```

Please enter your choice :

# Patient Registration

```
HMS.cpp x
D: > Mehedi > G- HMS.cpp
60 }
61 patient linkedqueue :: input()
62 {
63     int flag=0;
64     patient *p=new patient();
65     cout << "\n Please enter data for patient\n";
66     cout<<"\n First name : ";
67     getline(cin,p->firstname);
68     cout << " Last name : ";
69     getline(cin,p->lastname);
70     again :
71     cout << " Blood Group : ";
72     cin>>p->blood;
73     if((strcmp(p->blood,"A+")==0)|| (strcmp(p->blood,"a+")==0)|| (strcmp(p->blood,"A-")==0)|| (strcmp(p->blood,"a-")==0)||
74     (strcmp(p->blood,"B+")==0)|| (strcmp(p->blood,"b+")==0)|| (strcmp(p->blood,"B-")==0)|| (strcmp(p->blood,"b-")==0)||
75     (strcmp(p->blood,"O+")==0)|| (strcmp(p->blood,"o+")==0)|| (strcmp(p->blood,"O-")==0)|| (strcmp(p->blood,"o-")==0)||
76     (strcmp(p->blood,"AB+")==0)|| (strcmp(p->blood,"ab+")==0)|| (strcmp(p->blood,"AB-")==0)|| (strcmp(p->blood,"ab-")==0))
77     flag=1;
78     if(flag==0)
79     {
80     cout<<"\n Invalid Blood Group Try Again..\n\n";
81     goto again;
82     }
83     cout<<" Gender(m/f) : ";
84     cin>>p->gender;
85     cout<<" Age : ";
86     cin>>p->age;
87     cout<<" Mobile number : ";
88     cin>>p->ID;
89     if(search(p->ID))
```

CODE

OUTPUT

```
|-- HOSPITAL MANAGEMENT SYSTEM --|
```

GENERAL CLINIC

- [1] Add normal patient
- [2] Add critically ill patient
- [3] Take patient to Doctor
- [4] Display list
- [5] Change department or exit

Please enter your choice : 1

Please enter data for patient

First name : Mehedi

Last name : Hasan

Blood Group : O+

Gender(m/f) : m

Age : 22

Mobile number : 01710138816

# Patient Record

```
HMS.cpp X
D: > Mehedi > HMS.cpp
94     return *p;
95     }
96     void output(patient *p)
97     {
98         cout<<"\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n";
99         cout<<"\n Patient data:\n";
100        cout<<"\n First Name : "<<p->firstname;
101        cout<<"\n Last Name : "<<p->lastname;
102        cout<<"\n Gender : "<<p->gender;
103        cout<<"\n Age : "<<p->age;
104        cout<<"\n Blood Group : "<<p->blood;
105        cout<<"\n Mobile Number : "<<p->ID;
106        cout<<"\n\n \xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\xcd\n";
107    }
108    void linkedlist::insertattheend()
```

CODE

OUTPUT

```
==
|-- HOSPITAL MANAGEMENT SYSTEM --|
==
-----PATIENT ADDED-----
==
Patient data:

First Name : Mahedi
Last Name : Hasan
Gender : m
Age : 22
Blood Group : O+
Mobile Number : 1710138816

Press any key|
```



# Transferring Patient info to doctor

```
hospital[1].cpp X
C: > Users > Home > AppData > Local > Microsoft > Windows > INetCache > IE > 9IPUWZO4 > hospital[1].cpp
209     }
210
211     void LinkedList::takePatientToDoctor()
212     {
213         cout << "\n Patient taken to the doctor. The doctor will see the patient's report soon.";
214     }
215
```

```
-----
|-- HOSPITAL MANAGEMENT SYSTEM --|
-----
```

GENERAL CLINIC

```
[1] Add normal patient
[2] Add critically ill patient
[3] Take patient to Doctor
[4] Display list
[5] Change department
[6] Exit
```

Please enter your choice : 3

```
-----
Patient taken to the doctor. The doctor will see the patient's report soon.
Press any key
```

# CONCLUSION



The C++ code presents a basic hospital management system with linked lists for patient records across departments. Users can add patients, view lists, and simulate patient-doctor interactions. The code is functional but would benefit from improved input validation and enhanced user features. It serves as a starting point for a simple system but needs refinements for real-world use.

Thank You