



NORTHERN UNIVERSITY  
**NUB**  
BANGLADESH  
Knowledge for Innovation and Change

# Northern University Bangladesh

**Department:** Computer Science & Engineering

**Subject:** Software Development

Course Code: CSE-1290

**PRESENTATION NAME**

**Hospital Management System**

# My Group Members:

Md. Ashik Pk	42250102231
Sadek Molla	42250102308
Rakib Hosen	42250102260

My PRESENTATION NAME :

Hospital Management System

# Introduction :

A Hospital Management System is a software solution designed to efficiently manage hospital operations. It helps streamline different tasks including:

Patient Registration

Doctor Assignment

Report Generation

## Hospital Fisher:

➤ **Patient Name** :

➤ Patient ID :

➤ Patient Age :

➤ Patient Gender :

➤ Patient Address :

➤ Mobile Number :

➤ Doctor Name :

➤ Reference :

➤ Ttotal Amount :

➤ Discount :

➤ Sumit :

# Objectives:

- To store and manage patient data securely.
- To assign doctors to patients efficiently.
- To generate medical and financial reports easily.
- To ensure accuracy and reduce manual errors.

# Algorithm:

1. Start
2. Declare a structure Patient with fields:  
    name, id, age, gender, address, mobile, doctor, reference totalAmount, discount, dueAmount
3. Declare a variable p of type Patient.
4. Display "----- Hospital Management System -----".
5. Input patient details:  
    Read name  
    Read id  
    Read age  
    Read gender  
    Read address  
    Read mobile  
    Read doctor  
    Read reference  
    Read totalAmount  
    Read discount
6. Compute  $\text{dueAmount} = \text{totalAmount} - \text{discount}$ .
7. Display "--- Submitted Successfully! ---".
8. Print all patient details:  
    Name, ID, Age, Gender, Address, Mobile, Doctor, Reference  
    Total Amount, Discount, Due Amount
9. End

# Coud

```
1 #include <stdio.h>
2 #include <string.h>
3
4 struct Patient {
5     char name[100];
6     int id;
7     int age;
8     char gender[10];
9     char address[200];
10    char mobile[20];
11    char doctor[100];
12    char reference[200];
13    float totalAmount;
14    float discount;
15    float dueAmount;
16 };
17
18 int main() {
19     struct Patient p;
20
21     printf("----- Hospital Management System -----\\n");
22
23     printf("Enter Patient Name: ");
24     fgets(p.name, sizeof(p.name), stdin);
25
26     printf("Enter Patient ID: ");
27     scanf("%d", &p.id);
28     getchar();
29
30     printf("Enter Patient Age: ");
31     scanf("%d", &p.age);
32     getchar();
33
34     printf("Enter Patient Gender: ");
35     fgets(p.gender, sizeof(p.gender), stdin);
36
37     printf("Enter Patient Address: ");
38     fgets(p.address, sizeof(p.address), stdin);
39
40     printf("Enter Patient Mobile Number: ");
41     fgets(p.mobile, sizeof(p.mobile), stdin);
42
```

```
42
43     printf("Enter Doctor Name: ");
44     fgets(p.doctor, sizeof(p.doctor), stdin);
45
46     printf("Enter Reference Analysis: ");
47     fgets(p.reference, sizeof(p.reference), stdin);
48
49     printf("Enter Total Amount: ");
50     scanf("%f", &p.totalAmount);
51
52     printf("Enter Discount Amount: ");
53     scanf("%f", &p.discount);
54
55
56     p.dueAmount = p.totalAmount - p.discount;
57
58     printf("\\n--- Submitted Successfully! ---\\n");
59
60     printf("\\n----- Patient Details -----\\n");
61     printf("Name           : %s", p.name);
62     printf("ID            : %d\\n", p.id);
63     printf("Age           : %d\\n", p.age);
64     printf("Gender        : %s", p.gender);
65     printf("Address       : %s", p.address);
66     printf("Mobile No.    : %s", p.mobile);
67     printf("Doctor Name   : %s", p.doctor);
68     printf("Reference     : %s", p.reference);
69     printf("Total Amount  : %.2f\\n", p.totalAmount);
70     printf("Discount      : %.2f\\n", p.discount);
71     printf("Due Amount    : %.2f\\n", p.dueAmount);
72
73     return 0;
74 }
```

# Final input

## Compile Result

```
----- Hospital Management System -----  
Enter Patient Name: 
```

## ----- Patient Details -----

```
Name           : Ashik  
ID              : 2231  
Age             : 25  
Gender          : mile  
Address         : Dhaka  
Mobile No.      : 01740319423  
Doctor Name     : Dr.Almas hossen  
Reference       : Sadek  
Total Amount    : 20000.00  
Discount        : 500.00  
Due Amount      : 19500.00
```

# Final output

```
----- Patient Details -----  
Name           : Ashik  
ID             : 2231  
Age            : 25  
Gender         : male  
Address        : Dhaka  
Mobile No.     : 01740319423  
Doctor Name    : Dr.Almas hossen  
Reference      : Sadek  
Total Amount   : 20000.00  
Discount       : 500.00  
Due Amount     : 19500.00
```





Thank you