

DOCUMENTATION

1. Abstract

The Hospital Patient Record System is a simple software application used to store and manage patient details in a hospital. It helps in maintaining records such as patient ID, name, age, and disease in an organized way. This system reduces manual paperwork and makes patient information easy to access, update, and store safely using a computer program.

2. Introduction

In hospitals, maintaining patient records manually is time-consuming and error-prone. To overcome this problem, a Hospital Patient Record System is developed using the C programming language. This system allows hospital staff to add, view, and manage patient information efficiently. It is simple, fast, and suitable for small hospitals or as a basic learning project.

3. Software Requirements

Operating System: Windows / Linux

Programming Language: C

Compiler: GCC / Turbo C / Dev-C++

Text Editor or IDE: VS Code, Code::Blocks, Dev-C++

4. Hardware Requirements

Processor: Intel / AMD Processor

RAM: Minimum 2 GB

Hard Disk: Minimum 20 GB free space

Input Devices: Keyboard, Mouse

Output Device: Monitor

5. Code (C Program)

Copy code

C

```
#include <stdio.h>
```

```
// Define structure

Struct Patient {

    Int id;

    Char name[50];

    Int age;

    Char disease[50];

};


Int main() {

    Struct Patient p[5];

    Int n, i;


    Printf("Enter number of patients: ");

    Scanf("%d", &n);


    For(i = 0; i < n; i++) {

        Printf("\nEnter details of patient %d\n", i + 1);


        Printf("Patient ID: ");

        Scanf("%d", &p[i].id);


        Printf("Patient Name: ");

        Scanf(" %[^\n]", p[i].name);


        Printf("Age: ");

        Scanf("%d", &p[i].age);
```

```
    Printf("Disease: ");
    Scanf(" %[^\\n]", p[i].disease);
}

Printf("\\n--- Patient Records ---\\n");
For(l = 0; l < n; i++) {
    Printf("\\nPatient %d\\n", l + 1);
    Printf("ID: %d\\n", p[i].id);
    Printf("Name: %s\\n", p[i].name);
    Printf("Age: %d\\n", p[i].age);
    Printf("Disease: %s\\n", p[i].disease);
}
```

Result:



programiz.com



Programiz

C Online Compiler

Programiz PRO

main.c

Output



Enter details of patient 1

Patient ID: 101

Patient Name: John

Age: 30

Disease: fever

Enter details of patient 2

Patient ID: 102

Patient Name: George

Age: 43

Disease: fever

--- Patient Records ---

Patient 1

ID: 101

Name: John

Age: 30

Disease: fever

Patient 2

ID: 102

Name: George

Age: 43

Disease: fever

=== Code Execution Successful ===

6. Conclusion

The Hospital Patient Record System is a simple and effective program to manage patient information digitally. It reduces manual effort, saves time, and avoids data loss. This project helps in understanding structures, loops, and input/output operations in C. With further improvements like file handling and search options, it can be developed into a complete hospital management system.