**UNIVERITY NAME**

**SRM UNIVERSITY,**

Introduction to programming using c

Project synopsis

On

**Hospital Mangement system**

“ **TITLE OF THE PROJECT”**

**HOSPITAL MANGEMENT SYSTEM**

Submitted In A Partial Fulfillment For The Award Of The B.Tech

**SCHOOL OF ENGINEERING AND SCIENCES**

In

**COMPUTER SCIENCES AND ENGINEERING**

**Submitted by**

**Group number -18**

**Group Details(Name with Regn number)**

Name register number

Under the guidance of

Mrs .Vidya

Synopsis of hospital management system

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8 modules Description

**ABSTRACT**

Hospital Management System is an organized computerized system designed and

programmed to deal with day to day operations and management of the hospital activities. The program can look after add information ,veiew information , records, edit information ,staff information,search,expense calculation .it also maintains hospital information such as ward id, doctors in charge and department administering.

The aim is to automate its existing manual system by the help of computerizedequipments and full-fledged computer software, fulfilling their requirements, so that theirvaluable data/information can be stored for a longer period with easy accessing andmanipulation of the same. Basically the project describes how to manage for goodperformance and better services for the clients.

Chapter-1

**Introduction of the project**

The "Hospital Management System" has been developed to override the problemsprevailing in the practicing manual system. This software is supported to eliminate andin some cases reduce the hardships faced by this existing system. Moreover thissystem is designed for the particular need of the company to carry out operations in asmooth and effective manner.The application is reduced as much as possible to avoid errors while entering the data.It also provides error message while entering invalid data. No formal knowledge isneeded for the user to use this system. Thus by this all it proves it is user-friendly.Hospital Management System , as described above, can lead to error free, secure,reliable and fast management system. It can assist the user to concentrate on theirother activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources

Every organization, whether big or small, has challenges to overcome and managingthe informations of Doctors, Hospital, Employee, Medicine, Test. Every HospitalManagement System has different Hospital needs, therefore we design exclusiveemployee management systems that are adapted to your managerial requirements.This is designed to assist in strategic planning, and will help you ensure that yourorganization is equipped with the right level of information and details for your futuregoals. Also, for those busy executive who are always on the go, our systems come withremote access features, which will allow you to manage your workforce anytime, at alltimes. These systems will ultimately allow you to better manage resousources

Chapter-2

**Objectives**

This is a simple menu – driven application that runs in the terminal .the application can be used by the managers(or)administration to insert ,manage,edit,and delete the patients records as per requirement .This software can be used to eliminating long date entry and organistation task .

The purpose of the project isto build an application program to reduce the manual work for managing the Hospital,Doctors, Medicine, Patient. It tracks all the details about the Patient, Employee.

This can greatly enhance the experience of both patients and hospital administration .

**Functionalities provides by Hospital management system as follow**

* Provides the searching facilites based on various factors .such as Hospital,patient,Employee.
* It track all the information of Doctor, Employee and etc
* Shows the information and description of the hospital,patient
* Mange the information of Doctors
* Mange the information of Employee
* Editing ,adding and updating of records is improved which results in proper resource management of hospital data

Chapter-3

**System Requirement Specification**

**Techical information**

* Programming language of the source code: C
* Compiler being used: mingw-w64
* Database management: No Backend file being used

**Software Requirements**:

* Operating System: Windows 7, Windows 10, Windows 11, macOS or Linux
* Compiler: GCC Compiler from either mingw-w64 (or) cygwin64
* Debugger (optional): GDB Debugger from mingw-w64 (or) cygwin64
* Programming Software Required: Terminal/Command Prompt, Any C IDE

(Code::Blocks, Visual Studio Code, Eclipse, etc.

**Hardware Requirements (Minimum):**

* Processor: 2Ghz (Intel or AMD)
* RAM: 1GB
* Storage Capacity: 80GB
* Required Peripherals: Keyboard

Chapter-4

**Feature of projects**

Currently 8 menu options including one exit option is being planned for this application.

Here is a rundown of the feature set i.e., the menu items.

* Add Information
* View information
* Search
* Edit information
* Deletel information
* Staff information
* Expense calculation
* Exit

Planned Design of the main menu

|  |
| --- |
| **--- HOSPITAL MANAGEMENT SYSTEM**---     1. **Add Information** 2. **View information** 3. **Search** 4. **Edit Information** 5. **Delete Information** 6. **Staff Information** 7. **Expense calculation** 8. **Exits**   **Entre your choice** |

Chapter-5

**Modules Description**

**1**. **Add Information**: This menu option is used to add the patient record to the system. This takes input such as patient name, disease, etc. This requires user input.

**2. View Information**: Using this option will list out the details of all the patients who are being treated in that hospital at that time. This lists out the patient records one by one including the Patient name, Disease, room number, etc.

**3.Search** 3: This option is used to search for a particular patient record based on a given criteria. This can be used to go through and search for the records having a particular Name, Disease or can even be used to directly retrieve a patient record by entering his Room Number.

**4. Edit Information**: This option can be used to select a record of a patient and edit any field of information from that record.

**5. Delete Information**: This menu item can be used to select any patient record usingthe Record Number and delete the record from the system.

**6. Staff Information**: This option can be used to list out the information of the Hospital staff and can be used to filter the results based on any given criteria like their role in the organisation.

**7. Expense Calculation:** This option can be used to view the billing information of various services offered by the hospital and calculate the final total of all the expenses of a patient.

**8. Exit**: This option is self-explanatory and is used to exit the system and terminate the

Feature at a Glance: