“Hospital Management System”



**Group Members**

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**Acknowledgment:**

**We would like to thank our teachers Sir Hamza and Miss Atiya without their guidance and support throughout the course we would not have been able to make this project .**

**INTRODUCTION(AIM And Motivation):**

The purpose and essence of any management system is the right information in right place in the right order, at the right time for the right person at the lowest cost.For this feat to be achieved an highly efficient hospital management system is needed as the existing system is highly inefficient.

We have tried to make a C language management project in which our major purpose was to make an efficient program which will store the data of all the Patients and the staff members.**we have also** **developed a search module which is the best feature of this project**.

The aim behind this project was to automate the existing system as the current system is not very efficient it is time consuming labour intensive and less safer as there is always a risk of losing the record either by theft or by getting burned due to any short circuits or other reasons.

The motivation behind was that it is seen mostly people despite being sick had to stand in long queues to provide their information and details to hospitals for storing data each time they visit and then had to keep that with them all the time so this system will help to overcome that and would save a lot of time .

**BACKGROUND(Research & project Selection):**

We have researched considerable ideas from different websites ranging from wikipedia to those websites used in local hospitals concerning the features used in the Hospital management system. This has helped us in coming to the conclusion that due to innumerable slips that are used day in and day out by the hospital, the job can be very time consuming and requires a number of staff members just to carry out the most basic of tasks.

**Moreover, the possibility of error can be very high. This not only threatens the patients' livelihood( They might have been suffering from a different illness compared to the one registered in the logs) but also the doctor’s credibility.This ultimately helped us in coming to a conclusion that a more efficient program is needed. This is why our particular topic was chosen.**

**PROBLEM ANALYSIS:**

The main problems were

* To develop a search module that will help in finding record was the main motive
* To make a program that is user friendly
* A program In which added data can be edited at any time .
* And previously added data can be deleted .
* To make a program That can automate the existing system.

**PROJECT SPECIFICATION:**

***LIBRARIES USED***:

#include<stdio.h>

#include<stdlib.h>

#include<stdio.h>

#include<string.h>

**Programming Concepts Used**

* Pointers
* Structure
* If else statements
* nested if else statements
* Strings
* File handling
* Loops
* Functions
* fflush(stdin) used to clean the buffer each time the new data is entered

**Salient Features:**

This hospital management have following salient features

* Time saving
* Low running cost
* Secure

**IMPLEMENTATION AND TESTING:**

During the testing of this program we encountered many errors but one error which took the most time was the error appearing due to the draw back of scanf function which was not letting us enter any other detail after using integar as it was considering space a character so then after searching we found the solution for that and used fflush stdin which solved this problem.

**PROJECT BREAKDOWN STRUCTURE:**

This project is completed in 3 weeks with the first week we done the paper work

which includes the required features in the project then in the next week staff And

patients subfields are entered and the last we close the program after adding file

handlings and testing the code and debugging the error.

**Work load:**

The functions that have been used in the code were distributed among the 3 members of the group.

**Ali Abdullah:** The functions involving the staff were developed by Ali abdullah.

**Abdullah memon:** The functions involving patient were developed by Abdullah memon

**Hamza Shakil:** Home screen was developed by Hamza Shakil.

**Solution Design**

The program that has been developed will be used to store the data of the staff members and patients. This will range from adding

the patients information such as:

* Name
* Disease
* Age
* room number
* phone number

This program will also input staff’s information which will range from:

* Name
* Post
* Address
* Street Number
* Age
* Salary
* Phone Number

Moreover, the program will enable users to search up their patient/staff member and ease the workload on the employee.

This makes the program efficient and reliable, which ultimately results in allowing multitasking.

**Summary:**

In this project We can

* Add information about patients and staff.
* edit information .
* Search information by name,serial no or any other information.(main focus)
* Delete record .
* View record
* And keep track of the total number of entries in the database.