Mini-Project Synopsis
Advanced Programming Lab (ICT 3166)

Project Title:

Hospital Management System

Team Members:

Sl#	Full Name	Reg#	Roll #	Type of Project (research, Gaming, Social and Other)
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Abstract:

This Hospital Management System project is a computerized hospital front desk management that produces user-friendly, quick, and cost-effective software. It handles and secures patient information, diagnosis data, and so on. This was done by hand and its' principal job is to register and maintain patient and doctor information and to access and update the information when needed. Patient information and diagnosis are entered into the system, then the output is used to display these details on the screen. A username and password are required to access the Hospital Management System. It can be accessed by a receptionist or an administrator. They are the only ones who have access to the database. The information is easily accessible. For personal usage, the data is well-protected, and the data processing is quick.

Project Detail:

Hospital are the essential part of our lives, providing best medical facilities to people suffering from various ailments, which may be due to change in climatic conditions, increased work-load, emotional trauma stress etc. It is necessary for the hospitals to keep track of its day-to-day activities & records of its patients, doctors, nurses, ward boys and other staff personals that keep the hospital running smoothly & successfully.

But keeping track of all the activities and their records on paper is very cumbersome and error prone. It also is very inefficient and a time-consuming process Observing the continuous increase in population and number of people visiting the hospital. Recording and maintaining all these records is highly unreliable, inefficient and error-prone. It is also not economically & technically feasible to maintain these records on paper. Thus keeping the working of the manual system as the basis of our project. We have developed an automated version of the manual system, named as "Administration support system for medical institutions".

The main aim of our project is to provide a paper-less hospital up to 90%. It also aims at providing low-cost reliable automation of the existing systems. The system also provides excellent security of data at every level of user-system interaction and also provides robust & reliable storage and backup facilities.

Expected Results:

The proposed software product is the Hospital Management system (HMS). The system will be used in any hospital, clinic, dispensary or pathology labs. Clinic, dispensary or pathology to get the information from the patients and then storing that data for future usages. The current system in use is a paper based system. It is too slow and cannot provide updated lists of patients within reasonable timeframe. The intention of the system is to reduce over-time pay and increase the number of patients that can be treated accurately. Requirement statements in these documents are both functional and non-functional.

Python Programming Concepts Used:

To make this project we will be using sqlite 3, tkinter and some of the python concepts like lists, tuples , dictionaries, functions, modules, classes etc. For the project creation we will be using python for server- side script and for front end we are using tkinter and for database we are using sqlite (Dbrowser).