# CODE MAGNETS

Our idea can provide digital report system and online doctor consultation with depository of all previous records of the patient in his/her specific healthcare account,Thus making things easier and updates all entries of each patient up to date.

Health Care Management System provides the benefits of streamlined operations, enhanced administration and control, superior patient care, strict cost control and improved profitabXity,HCMS is powerful,flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. More importantly it is backed by reliable and dependable support.

The project 'Health Care Management' is based on the database, object oriented and networking techniques.As there are many areas where we keep the records in database for which we are using MYSQL software which is one of the best and the easiest software to keep our information. This project uses JAVA SCIRPT as the front-end software which is an object oriented programming and has connectivity with with MYSQL.

Health Care Management System is custom built to meet the specific requirement of the mid and large size hospitals across the globe.All the required modules and features have been particularly built to size fit in to your requirement This package has been widely accepted by the clients in India and overseas.Not stopping only to this but they are highly satisfied and appreciating.Entire application is web based and built on 3 tier architecture using the lastest technologies. The package is highly customizable and can be modified as per the needs and requirements of our clients.Prolonged study of the functionalities of the hospital and its specific requirement has given it a wonderful shape both technically and usability wise. It covers all the required modules right from patient registration \*Medicine details, Doctor, Wards, Admin, Store, Patient appointment, bill payment, record modification, discharge details etc.

# CHAPTER 1

INTRODUCTION

Human body is very complex and sophisticated structure and comprises of millions of functions. All there complicated functions have been understood by man him, part-by-part their research and experiments. As science and technology progressed, medicine became integral part of the research. Gradually, medical science became an entirely new branch of science. As of today, the Health sector comprises of Medical institutions i.e. Hospitals etc, research and medical facilities to the common man.

* 1. Problem Statement

Since Hospital is associated with the the lives of the common people and their day-to-day routines so we decided to work on this project

The manual handling of the record is time consuming and highly prone to error. The purpose of this project is to automate or make online, the process of day-to-day activities like room activities, Admission of new patient, Discharge of patient, Assign a Doctor, and finally compute the bill etc-I have tried my best to make complicated process Health Care Management system as simple as possible using structured and modular technique and menu orientated interface. I have tried to design the software in such a way that user may not have any difficulty in using this package and further expansion is possible without much effort. Even though I cannot claim that this work to be entirely exhaustive, the main purpose of my exercise is perform each Hospital's activity in computerized way rather than manually which is time consuming.

I am confidern that this software package can be readily used by non-programming personal avoiding human handled chance of error.

1.2 Objective

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 climate conditions,increased work-load, emoffonal trauma stress etc. It is necessary for the hospfals to keep track of its day-to-day activities & records of its patients, doctors, nurses, ward boys and other staffpersonals that keep the hospital running smoothly & successfully.

But keeping track of all the activities and there records on paper is very cumbersome and error prone. It is also very inefficient and a time-consuming process observing the continuous increase in population and number of people visiffng 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 munual system as the basics 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.

**1.3 Scope**

The proposed software product is the Health Care Management system(HCMS). 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 currect system in use is a paper base 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. Requirment statements in these documents are both functional and non-functional.

1.4 Backround study

# **HTML**

Basic structure of web page-learnt how a website should be designed

Tags-came to know the use of most commonly used tags.

Semantic-learnt about the new htm15 tags.

**CSS**

Linking stylesheet came to know the different ways to link stylesheets.

Box-model-learnt how to structure the content.

Gradients-learnt how to style colors uniquely.



Variable declaration-learnt how to declare and use variables.

Form validation-learn how to validate each input fields in the form. JS Functions-learnt how a function works and what it is used for.

**jQuery**

Selectors-learnt how to use jquery selectors to select manipulate HTML element(s).

JQuery Ajax-learnt how to load data in the background and display it on the webpage,without reloading the whole page.

# **PHP**

PHP Form handling-learnt how to get data from form.

Variables-learn how to declare variables.

Echo/print-learnt how to print the data.

**SQL**

Queries-learnt how to use queries to create and manipulate data in a database.

Database-learnt how to create a database and do various operations on it.

Chapter 2

2.1 Project planning and scheduling

Project planning is a part of project management, which relates to the use of schedu les such as gantt charts to plan and subsequently report process within the project environment. Initially , the project scope is defined and the appropriate methods of completing the project are determined . Following this step , the durations for the various tasks necessary to complete the work are listed and grouped into a work breakdown structure. The logical dependencies between tasks are defined using an activity network diagram that enables identification of the critical path.

2.1.1 Methodology

We have to used Iterative and Incremental Development model(llD) for our project development This development approach is also referred to as Iterative Waterfall

Development process developed in response to the more traditional waterfall model. This model is designed to take care of such big project . The large and complicate project chiefly demand better development and testing procedure The waterfall model is well known for its repeated testing process. Hence I choose the waterfall model for developing my software.

Chapter 3

## **System Analysis**

3.1 Background Study

Application of computers to process medical problems is found throughout the world of medicine. This ranges from medical research via clinical application to health science

Many governments have promoted the use of computers in medical instrumentation. A medical research stresses computer technology in several ways and has recorded significant developing in areas like medical statistics, simulation, data-medical records.

Computer bases information system is installed in offices to previously done using the manual method of data a time like this when the government is putting all resources towards attaining improved standard of living for its citizen's, the application of computers will aid in discharging efficient and improved medical services to the people.

In developed countries, which have long absorbed computerization, their health sector has continued to flourish while medical services are still poor in developing countries. Patients do not have a adequate care. This causes careless deaths in most cases.

* 1. Software system attributes

32.1 Reliability: This application is a reliable product that produces fast & verified output of all its process.

32.2 Availability: This application will be available to use and help them to carry their operations conveniently.

3.2.3 Security: This application will be designed in a maintainable manner. It wil be easy to incorporate new requirements in the individual modules.

**Scope of working**

The proposed software product is the Health Care Management system(HCMS). 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

**Database Design**

Database design is the process of producing a detailed data model of database. This data model contains all the need logical and physical storage parameters needed to generate a design in a data definition language, 'Which can be used to create a database. A fully attributed data model contains detailed attributes for each entity.

The term database design can be used to describe many different part of the design of an overall database system. Principally, and most correctly, it can be thought of as the logical design of the base data structure used to store the data. In the relational model these are the tables and views. In an object database the entities and relationships map directly to object classes and named relationships. However, the term database design could also be used to apply to the overall process of designing, not just the base data structure, but also the forms and queries used as part of the overall database application within the database within the database management system

**Database schema of Health Care Management System**

A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among the are associated. It formulates all the constraints that are to be applied on the data.

A database schema can be divided broadly into two categories—

Physical Database Schema: This schema pertains to actual storage of data and its form of storage like files, indices, etc. It defines all the logical constraints that need to be applied on the data stored. "t defines tables, views, and integrity constraints.

List of tables:

1. Admin
2. User
3. Patients
4. Physician
5. Transactions
6. User\_details
7. Room
8. Discounts
9. Appointment
10. Doctors

1 1. Doctor specialization.

Conclusions

This project has been a rewarding experience in more than one \*The entire project word Jas Enlightened us In the following areas.

1. We have gained an Insieht Into working of the HOSPITAL This represents a typical real World situation.
2. Our understanding of database design has been strengthened this is because In order to generate the final reports of database designing has to be properly followed.
3. Scheduling a project and adhering to that schedule creates a strong sense of time management.
4. Sense of teamwork has developed and confidence af handling real life project has Increased to a great extent.