

A
PROPOSAL
ON
HOSPITAL MANAGEMENT SYSTEM



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TABLE OF CONTENTS

1. Introduction	
1.1 Background	
1.2 Purpose	
1.3 Overview	
2. Literature Review	
3. Problem Statement	
4. Objective.....	
5. Scope of Working	
6. Screenshot	
5.1 Login form	
5.2 Home page	
5.3 patient entry form	
5.4 Employee Registration, etc.	
7. List of figures	
8.1 Data Flow Diagram	
9. Reference	

ABSTRACT

“The purpose and essence of any Records Management system is the right information in the right place in the right order, at the right time for the right person at the lowest cost.”

Hospital management system is a computerized system designed and programmed to deal with day to day operations taking place. The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy and labs. It also maintains hospital information such as ward id, doctors in charge and department administering. The purpose of the project is to computerize the Front Office Management of Hospital to develop software which is user friendly, simple, fast, and cost – effective. It deals with the collection of patient’s information, diagnosis details, etc. Traditionally, it was done manually. The project outlines all the process followed to come up with the software that is from analysis to testing the system.

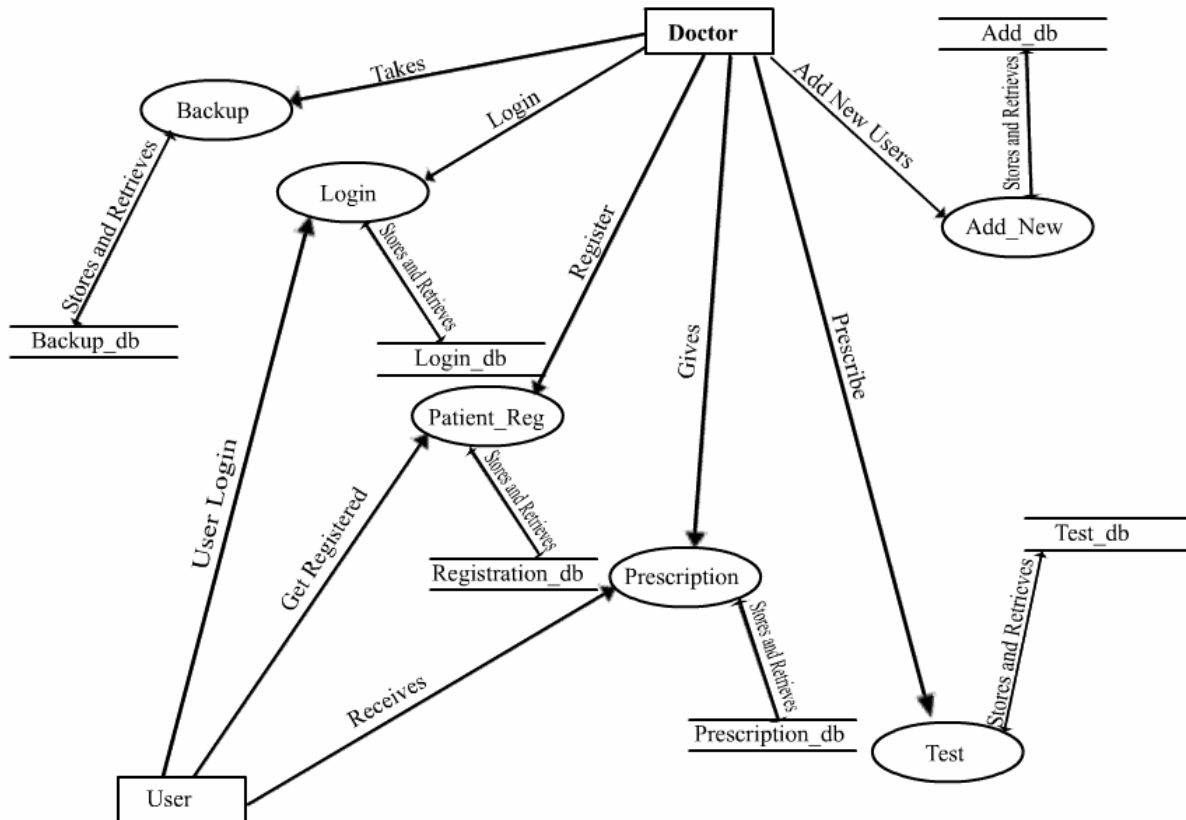
ACKNOWLEDGEMENT

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We are grateful to our project guide Mrs. Pratibha P for the guidance, inspiration and constructive suggestions that were very helpful for us in the preparation of this project. Our project will be incomplete without thanking Er.Mohan Maharjan and Mr. Bikas Balami whose continuous encouragement provided us necessary information to choose the field for project.

We would also like to thank our colleagues who have helped in successful completion of the project.

Data Flow diagram



Fig(7):DFD Level 0.

Introduction:

Background:

Hospitals deal with the life and health of their patients. Good medical care relies on well-trained doctors and nurses and on high quality facilities and equipment. Good medical care also relies on good record keeping. Without accurate, comprehensive and up to date and accessible patient notes, medical personnel may not offer the best treatment or may in fact misdiagnose the condition, which can have serious consequences. Associated records, such as x-rays, specimens, drug records and patient registers, must also be well cared for if the patient is to be protected. Good records care also ensures the hospitals administration runs smoothly; unneeded records are transferred or destroyed regularly, keeping storage areas clear and accessible; and key records can be found quickly, saving time and resources. Records also provide evidence of the hospital's accountability for its actions and they form a key source of data for medical research, statistical reports and health information systems.

Managing Hospital Records addresses the specific issues involved in managing clinical and non-clinical hospital records. A comprehensive records management system in a hospital helps to ensure that staff have access both to clinical information and to administrative records on a wide range of issues, including policy, precedents, legal rights and obligations, personnel, finance, buildings, equipment and resources.

Records Management refers to an on-going process of managing the records in a media neutral basis in accordance with approved policies, procedures and schedules. Records Management as a discipline defines and applies business rules related to the creation, protection, retrieval and disposition of an organization as records over time. Retention schedules are the cornerstone of a successful Records Management process.

Records Management as a discipline involves records keeping. Record keeping is an important aspect of every organizations/ institution's day to day operations. There cannot be a records management system without records and neither can there be efficient record keeping without a good records management system. Therefore, record keeping is the Systematic procedure by which the records of an organization are created, captured, maintained, and disposed of. This system also ensures their preservation for evidential purposes, accurate and efficient updating, timely availability, and control of access to them only by authorized personnel. The record in question here refers to any item or collection of data.

Purpose:-

- The Software is for the automation of Hospital Management.
- It maintains two levels of users:-
 - *Administrator Level
 - *User Level
- The Software includes:-
 - *Maintaining Patient details.
 - * Providing Prescription, Precautions and Diet advice.
 - *Providing and maintaining all kinds of tests for a patient.
 - * Billing and Report generation.

Overview:-

- Project is related to Hospital Management System.
- The project maintains two levels of users:-
 1. Administrator Level-Doctor
 2. User Level-Data Entry Operator
- Main facilities available in this project are:-
 1. Maintaining records of indoor/outdoor patients.
 2. Maintaining patients diagnosis details, advised tests to be done.
 3. Database of blood donors/blood group
 4. Staff record maintenance
 5. Providing different test facilities to a doctor for diagnosis of patients.
 6. X-Ray
 7. Urine Test
 8. Stool Test
 9. Blood Test
 10. Biochemistry Test, etc.
 11. Maintaining patient's prescription, medicine and diet advice details.
 12. Providing billing details for indoor/outdoor patients.
 13. Maintaining backup of data as per user requirements (between mentioned dates).
 14. Results of tests, prescription, precautions and diet advice will be automatically updated in the database.
 15. Related test reports, patient details report, prescription and billing reports can be generated as per user requirements.
 16. User or Administrator can search a patient's record by his/her name or their registration Number.
 17. If user forgets his/her password then it can be retrieved by hint question

Problem Statement:-

- ❖ **Lack of immediate retrievals:** - The information is very difficult to retrieve and to find particular information like- E.g. - To find out about the patient's history, the user has to go through various registers. This results in inconvenience and wastage of time.
- ❖ **Lack of immediate information storage:** - The information generated by various transactions takes time and efforts to be stored at right place.
- ❖ **Lack of prompt updating:** - Various changes to information like patient are difficult to make as paper work is involved.
- ❖ **Error prone manual calculation:** - Manual calculations are error prone and take a lot of time this may result in incorrect information. For example calculation of patient's bill based on various treatments.
- ❖ **Preparation of accurate and prompt reports:** - This becomes a difficult task as information is difficult to collect from various registers.

Objective:-

1. **Planned approach towards working:** - The working in the organization will be well planned and organized. The data will be stored properly in data stores, which will help in retrieval of information as well as its storage.
2. **Accuracy:** - The level of accuracy in the proposed system will be higher. All operation would be done correctly and it ensures that whatever information is coming from the center is accurate.
3. **Reliability:** - The reliability of the proposed system will be high due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information.
4. **No Redundancy:** - In the proposed system utmost care would be that no information is repeated anywhere, in storage or otherwise. This would assure economic use of storage space and consistency in the data stored.
5. **Immediate retrieval of information:** - The main objective of proposed system is to provide for a quick and efficient retrieval of information. Any type of information would be available whenever the user requires.
6. **Immediate storage of information:** - In manual system there are many problems to store the largest amount of information.
7. **Easy to Operate:** - The system should be easy to operate and should be such that it can be developed within a short period of time and fit in the limited budget of the user.

Scope of Working:

In the context of Nepal where most of the hospital is not using computerized technology to manage hospital management system, this program will be a perfect way to manage the hospital system. This application contains login form, patient registration, doctor registration. Hospital Management application allow patients to edit their information like patient name, contact number, address, disease from which he is suffering from etc.

It can be used in any Hospital, Clinic, Dispensary or Pathology labs for maintaining patient details and their test results.

Literature Review

Overview

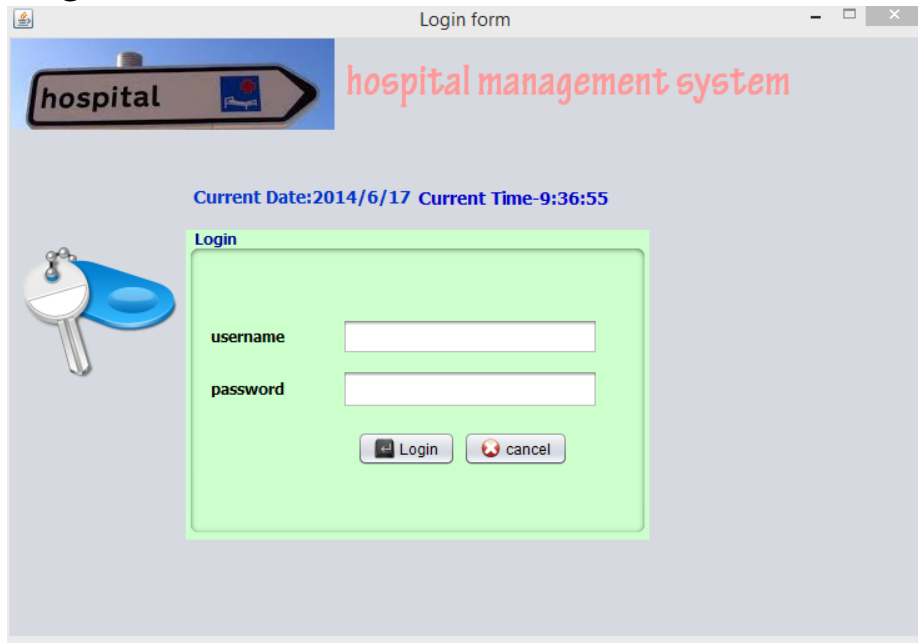
In order to understand the concepts associated with records management and or computer based records management systems, it is imperative to examine and analyze published material from experts regarding the field. The purpose of this review is to analyze and examine and obtain experience as regards the creation and archival processing of electronic records. The review is based on an exhaustive assessment of the literature on computerized electronic management and electronic records, and contains an overview of the main concepts associated with the creation of an electronic records management system from the perspective of published experts.

Databases as Recordkeeping Systems

Databases are being used as the records management systems of preference because of their informational value. Such databases are created for their informational value as an information resource. Statistical databases are good examples of this kind of database. Terry Cook and Eldon Frost have described the first generation of databases transferred to the Canadian National Archives as mainly consisting of statistical and survey files.

Screenshots

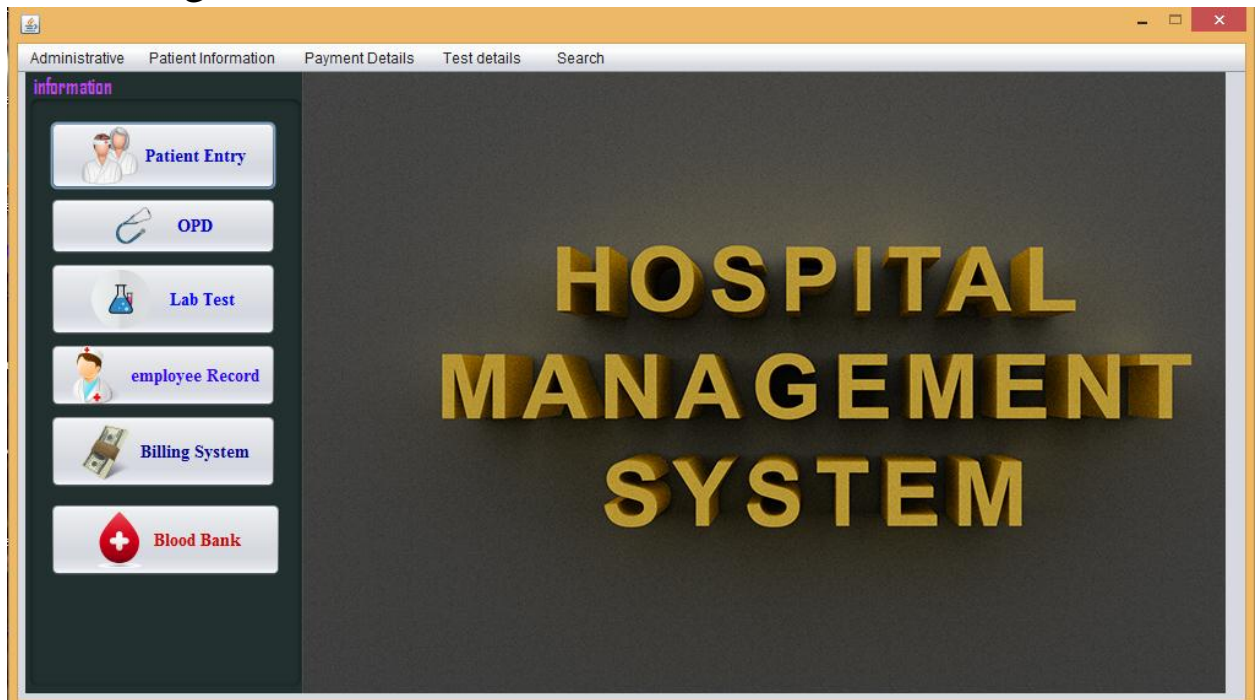
1. Login Form



The screenshot shows a window titled "Login form". At the top left, there is a logo with the word "hospital" and a medical cross icon. To its right, the text "hospital management system" is displayed in a red, stylized font. Below this, the current date and time are shown: "Current Date:2014/6/17 Current Time-9:36:55". On the left side of the login area, there is an illustration of a blue key. The main login area is a light green box containing the following elements:

- A label "username" followed by a text input field.
- A label "password" followed by a text input field.
- Two buttons at the bottom: "Login" and "cancel".

2. Home Page



3. Patient Record

File Edit View

Patient Information

Patient ID Registration D...

Patient name Father/Husband Na...

Address Contact Number

Gender Marital Stat...

Email City

Age

Search

PatientID	RegDate	Patientname	fname	Address	ContactNo	Age	Gender	Maritalstatus	Email	City
2	2014-06-05	FF56hhh	hh	jjj	55	78	Male	Married	hh	n
4	2014-06-05	sanu	didi	agdga	999	45	Male	Unmarried	sf	neapal
5	2014-06-05	sanudidi	didi	agdga	999	45	Male	Unmarried	sf	neapal
6	1970-01-01	binod	hh	jjj	55	78	Male	Married	hh	n

4. Employee Record

Admin Page

File Edit Help **Current date : 26/3/2012 Current time is 0 : 5 : 44**

Sign Out Print

Search

search...

Commands

Employee Information

Employee ...

First Name

Last Name

Job Title

Division

Department

Date of Birth

Phone

User ID

Password

employ...	name	surname	Usenid	pasaw	Date_o...	division	depart	phone	job_title
1	Sunil	Moudg...	sunil m...	sunny	1987-1...	CEO	Manag...	9889589	hjvoeth
2	Naveen	Murthy	naveen...	naveen	1988-0...	COO	civilill	989369	student
3	Yogesh	Patel	yogesh...	hello	1984-0...	CEO	Manag...	98959	kthhuku
4	Andreas	Sosilo	andrea...	andreas	1989-0...	1st	Manag...	98959	preside...
5	vinay	katara	vinay k...	vinay	1987-1...	Engineer	Manag...	9889589	engg
6	sagar	kumar	sip	sip	1987-1...	cno	top	9889589	engg
7	mark	Moudg...	sunil	sunny	1987-1...	CEO	Manag...	9889589	hjvoeth
8	Naveen	thyld	naveen...	naveen1	1988-0...	COO	civilill...	9893694	student