

Hospital Management System

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Abstract— The purpose of the project entitled as “Hospital Management System” 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 like add patient, update patient, delete patient, search patient, view patient diagnosis, etc. Traditionally, it was done manually. The main function of the system is register and store patient details and doctor details and retrieve these details as and when required , and also to manipulate these details meaningfully. The hospital management system can be entered using a username and password. It is accessible by an admin, doctor and receptionist. Only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast. Computers are not only used to increase the efficiency in all fields ranging from fixing the appointment with the Doctor to keeping the record of the patient.

Keywords: Hospital Management, Appointment

I. INTRODUCTION

The proposed system is a web application which is built in PHP. It provides the Candidate’s ability to register to this Web-application and manage their accounts. Each user will have an account with their own home page. Admin can send push notification to the user for the changing in the appointment. Admin has authority to change the schedule.

A. PHP

The PHP Hypertext Preprocessor (PHP) is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications. PHP can generate dynamic page content. PHP can create, open, read, write, delete, and close files on the server. PHP can collect form data. PHP can send and receive cookies. PHP can add, delete, modify data in your database. PHP can be used to control user-access. PHP can encrypt data. PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a common gateway Interface(CGI) executable. on a web server, the result of the interpreted and executed PHP code which may be any type of data, such as generated HTML or binary image data would form the whole or part of a HTTP response.

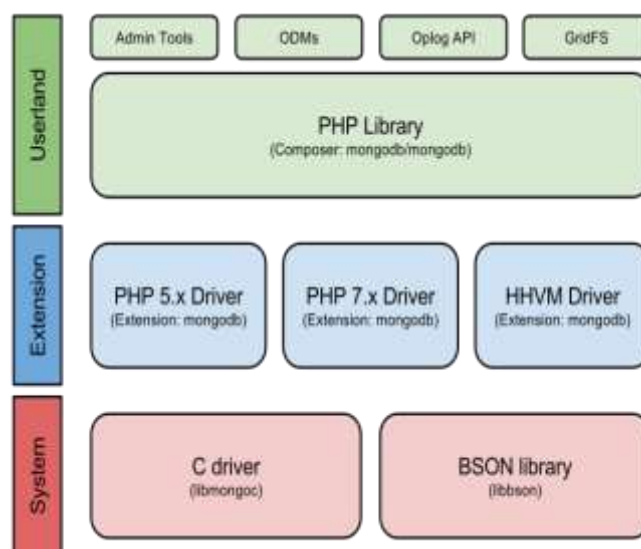


Fig. 1: Android Architecture

II. LITERATURE REVIEW

A hospital resource and patient management system based on real-time data capture and intelligent decision making. One of the major challenges existing hospital management systems face is around operational efficiency and wait times between different processes, departments and persons.

The program can look after patients, records, database treatments, status illness, and billings System has Admin, Doctor, Pharmacist, and Patient modules. Messages can be sending within this website. Patient can send online request for appointment.

III. STUDIES AND FINDINGS

Current system is manual and partially computer rise. Current peoples used to go to the hospitals to get the appointments.

- Market has own website but there is not accurate.
- Website is not updated daily with information. • Only Online website is not proper solution for peoples.
- Website is not best user friendly to use it.
- Data report generation process is manual, slow and error prone due to human intervention.
- Business growth decision slow and incorrect due to lack of on time Data.

IV. SYSTEM DESIGN

A. Flow Chart

The flowchart is a means of visually presenting the flow of data through an information processing systems, the operations performed within the system and the sequence in which they are performed.

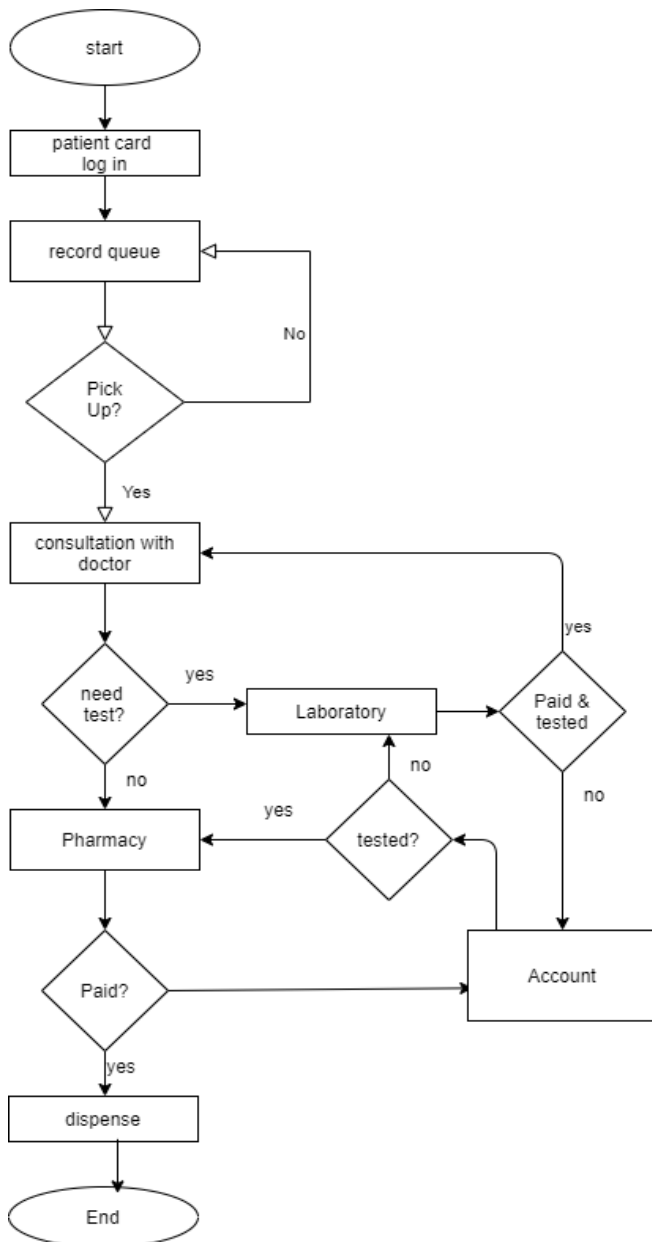


Fig. 2: Flow Chart

B. Activity Diagram

An Activity Diagram is a graphical representation of the "flow" of data through an information system, modeling its process aspects. Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

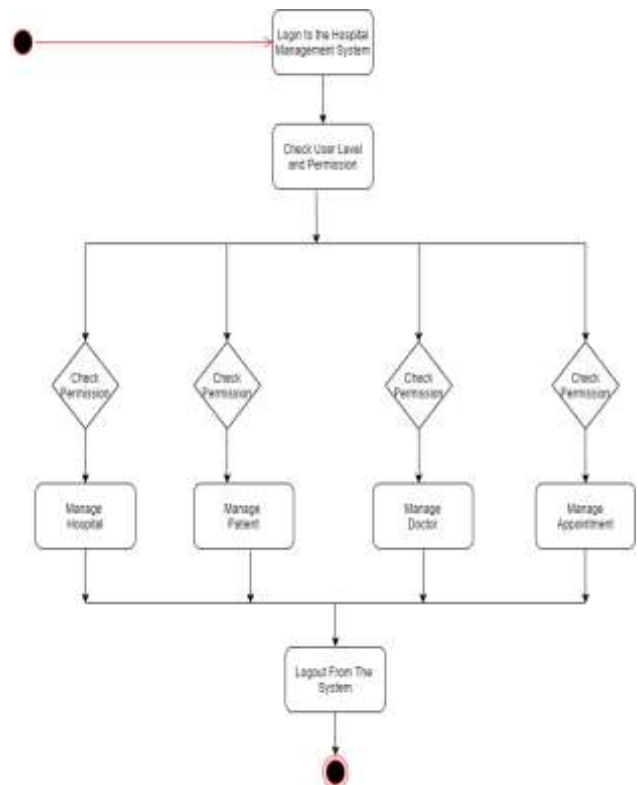


Fig. 3: Activity Diagram

C. E-R Diagram

In software engineering, an entity-relationship model (ER model) is a data model for describing the data or information aspects of a business domain or its process requirements, in an abstract way that lends itself to ultimately being implemented in a database such as a relational database. The main components of ER models are entities and the relationships that can exist among them, and databases. An entity-relationship model is a systematic way of describing and defining a business process.

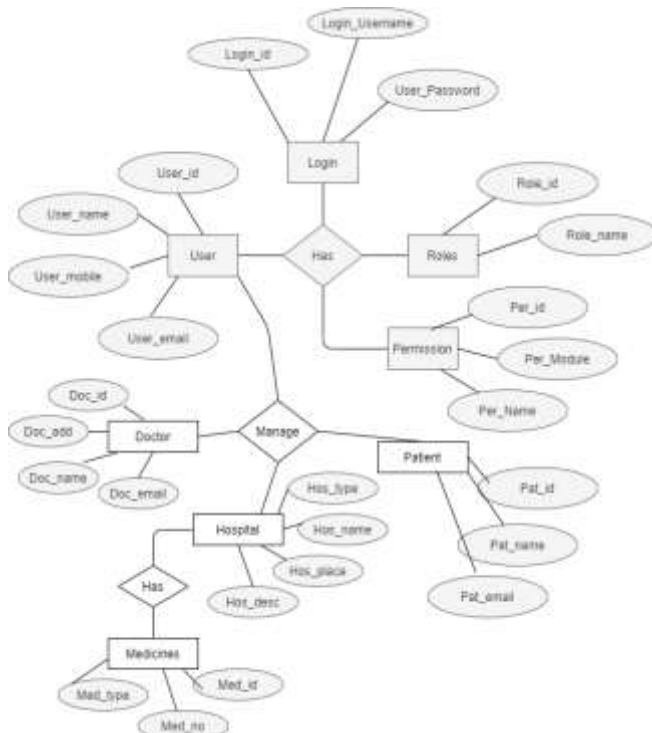


Fig. 4: Entity-Relationship Diagram

IV. CONCLUSION

We will develop “Hospital Management System” System with great concern and will try our best to implement as many as features to make it viable and usable. This system is a powerful and easy-to-use for the user in their day to day life. This is the easiest way for the patients and doctors. It is the Application with the latest platform that fulfils the required needs of patients and doctors. Nowadays, technology is increasing day by day for making the works of human being easier. In these system admin can send push notification to the user for the update.

ACKNOWLEDGMENT

We express our sincere thanks to Prof. Ajaykumar T. Shah Head of Department of Computer Engineering, Alpha College of Engineering and Technology for their Support and guidance for this project and care taken by them in helping us to complete the project work successfully.

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