Hospital Management With Live Billing System

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Abstract : The main objective of our project that is "Hospital management with live billing system" is to computerize the font office management of hospital to developed software which is user friendly , simple , cost effective , fast that is deal with the collection of patients information , diagnosis details...etc. Also most important thing we know that in all over country the most of the hospital do fraud with admitted patients and their billing system so that main domain in this project we provide live billing application to patient and hospital whatever treatment done with patient and charge of that treatment using this application patient family or relative can track a live bill or all the detail .This system can be used in any hospital , clinic , ..etc. In this , the function of the system is to register and store the patient informations and doctor details and retrieve this informations or details as when required and also manipulate details meaningfully system input contains patient informations , diagnosis details , .so the system output is to get these informations on to the their monitor.*.*

Keywords— Intellingent , Decision mechanism , System information management , hospital front desk , diagnose, appointment.

I. INTRODUCTION

Hospital are the very important part of our lives, its proving the best Doctosr, Nurses and Medical facility to people or patient suffering from various ailments, which may be due to change in climate condition, increased work load ,emotional truma stress or any accidents…etc and it is necessary for the hospital to keep track of its day to day activities and record of its patients, doctor, nurses, wardboys, and other staff personals that keep the hospital running smoothly and successfully. This system provides an easy way to manage and handle Hospital related all the details. So as we know that in all over country there are numbers of hospitals and they follow the previous inbuild technologie to generate the patients bills that is nothing but computerize system or paper writing..etc. Because of this system many hospital do the fraud with the patients to generate their fraud bill. So to destroy this system from the hospitals , Thats why we introduce Or develope this project that is "Hospital management with live billing system" This project aims to provide live billing application to hospital and patient whatever treatment done with patient and charges of that treatment using this application patient family or relative can track a live bill . This system can be used in any hospital , clinic..etc. Because of this system hospital becomes paper less up to 90%. It also includes registration of patients, storing their details into the system and also computerize billing in the pharmacy, and labs. Our software has give the facility a unique id for every patient and stores the informations of every patient and staff automatically. It includes the search facility to know the current status of the each room and user can search availability of the doctor and also details of the patient using the id. The hospital management system can entered using a username and password . It is accessible either by an administrator or receptionist. Only they can add data into the database and the data can be retrieved easily. The interface very user friendly and the data are well protected for personal use and makes the data processing very fast. Analysis and design of the hospital management system is based on UML diagram. And main function of the system is to register and stored patient informations and doctor informations and retrieve these informations as and when required and also to manipulate these informations meaningfully system input contains patient informations, diagnosis informations and while system output is to get these details on to the our system. The system also provides excellent security of data at every level of user system interaction and also provides robust & reliable storage and backup facilities.

II. SYSTEM DESIGN

To development of the system hardware and software requirement tools like:

1. Hardware requirement
   - Windows operating system pc version 8,9,10
   - Android mobile phone

2. Software requirement

- Android Studio
- MySQL
- SQL Server
- MS Access

III. PROPOSED SYSTEM

The hospital management system is designed for any hospital to replace their existing manual paper based system. In our proposed system, we have provided solution to all the above mentioned problems by automating the whole hospital management system by using an integrated software that handles the all system .

- It maintains two level of users
  - I. Administrator level
  - II. User level

- The software includes as following things
  - I. Maintain patient and staff details.
  - II. Providing prescription , precautions and Diet advice.
  - III. Providing and maintaining all kinds of tests for a patient.
  - IV. And also billing and report generation etc.
  - V. To provide the suitable security to the database
  - VI. Also maintain the inpatient and outpatient informations

The proposed system is very easy to operate, speed & accuracy are the main advantages of proposed system
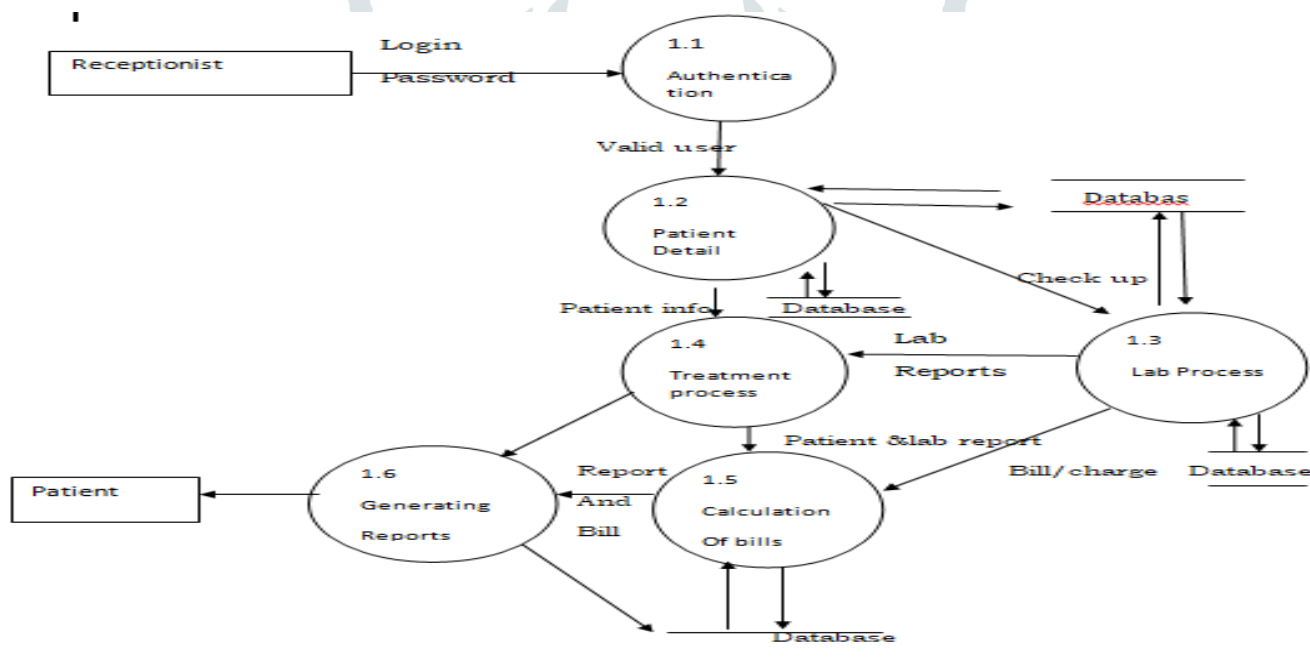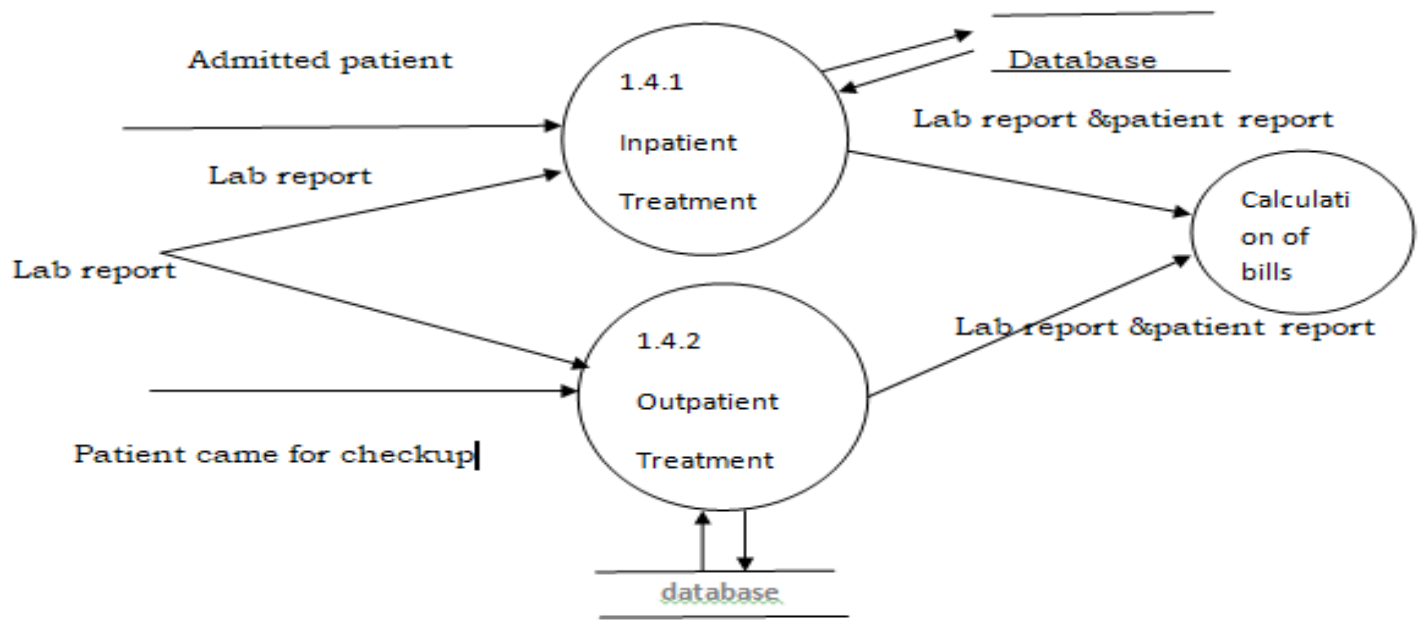
IV. DEVELOPMENT
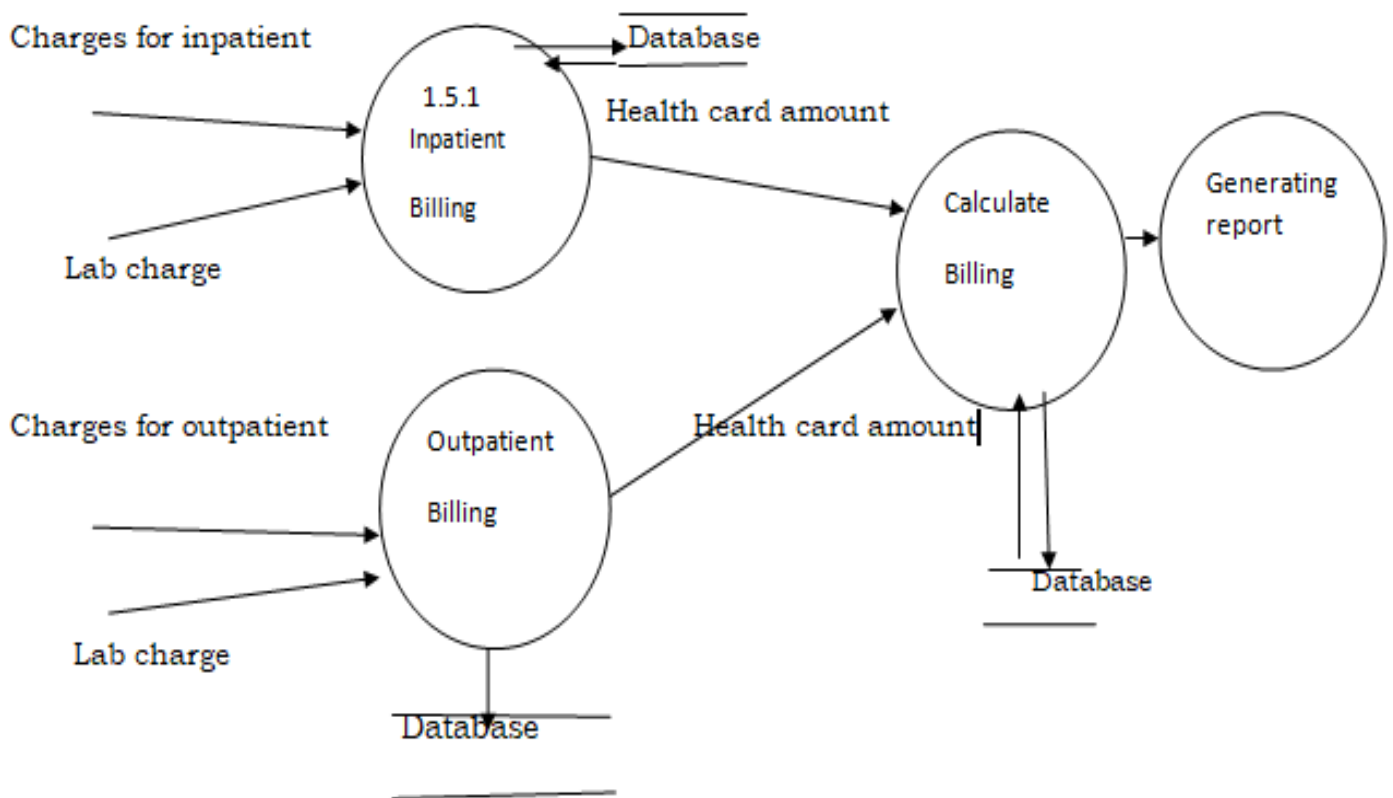

FIG. 4.1 1ST LEVEL DFD

FIG. 4.2 LEVEL 2 DFD (1.4)

FIG. 4.3 LEVEL 2 DFD (1.5)

FIG. 4.4. LOGIN FORM
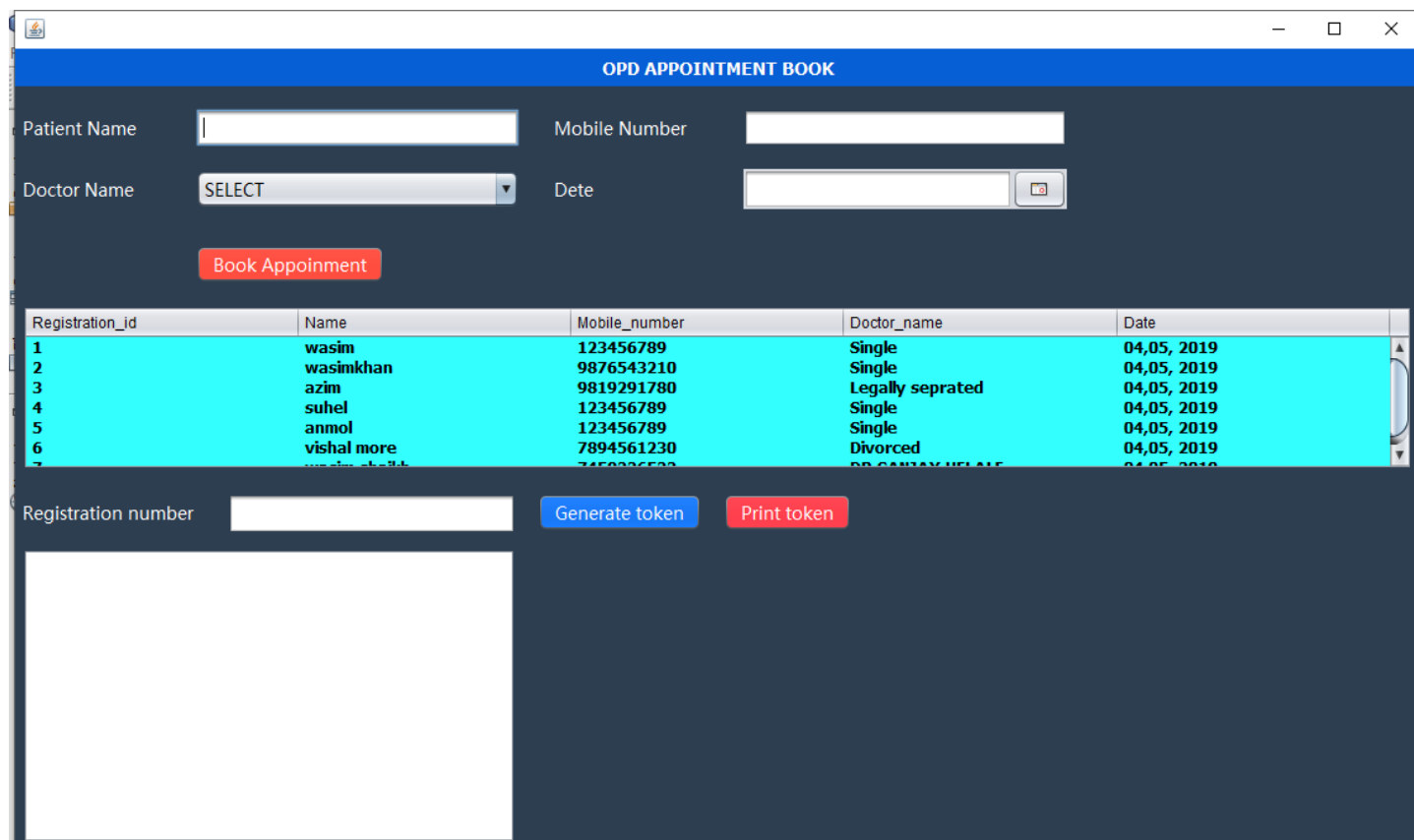

FIG. 4.4. PATIENT ENTRY FORM

FIG.4.5.OPD APPOINTMENT BOOK

V.   METHOLOGY

This hospital management system is based on database , object oriented programming language and networking techniques. My SQL (Structure Query Language) is used in areas where keep the records in the database is necessary , this system uses JAVA as the front-end software which is object oriented programming technique and has connectivity with My SQL, the front-end software

VI.   CONCLUSION

In conclusion we would like to state that this project "Hospital Management With Live Billing System is a computerizing the working in a hospital with live billing system, it is the great improvement over the manual system. This computerization and live billing system speed up the process .It generate the test reports and also provide the facility foe searching the detail of the patient, it also provide the live billing facility on the basis of patient status whether it is an indoor and outdoor patient ,the system alsp provide the facility of backup as per the requirement. We are developing this project on the above given criteria and guidelines. It can further be updated with a lot more things. Predictive analysis may be improved in future with added features of the new technology.

VII.   ACKNOWLEDGEMENT

We express sincere thanks to our guide Prof. Dhanashri kanade whose supervision, inspiration and valuable guidance helped us a lot to complete our work. Her guidance proved to be the most valuable to overcome all the hurdles in the fulfillment of this paperwork. Also, we are thankful to all those who have helped us in the completion of paperwork.

VIII.   REFERENCES

To developing our project we used some valuable books and also some valuable websites they are listed below and also we refers the ieee paper

[1]"Intelligent Hospital Management System (IHMS)" 2015

[2]"Smart hospital management system: An Integration of Enterprise Level Solution " 2010

[3]"E-Hospital Management & Hospital Information System" 2013

[4]"A text book of hospital & clinic pharmacy 7th edition (Dr. pratibha N. and Roop Kr. khar)"

[5]"Hospital & Clinic pharmacy 3[Rd] & 6[Th] edition "(by N. Muruguesh & A.K. Gupta)