Online OPD and Hospital Management System

Amit Kshirsagar[1], Nilam Kadam[2], Pritee Bhoite[3]

[1-3]Department of Computer Engineering, Pillai HOC College of Engineering and Technology,
Rasayani, Maharashtra, India
[4]Shrutika Khobragade, Assistant Professor, Department of Computer Engineering, Pillai HOC College of
Engineering and Technology, Rasayani, Maharashtra, India

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Abstract - *In hospital patient come with various disease for them Hospitals provide facilities like: Appointment booking, Consultation by Doctors on Diseases, Diagnosis for diseases, Providing treatment facility. Store the information about the Patients that come and generating bills. In hospital there are different jobs that need to be done in hospital by staff or Doctor. All these works are done on papers. User can control this with the help of technologies. Multiple technologies developed the application. The existing system is compatible for desktop, laptop and partially based on hardware, smart phone which work as different Systems on different module.*

Key Words: *Mobile App, Pathologist, OPD appointment booking, User id*

1. INTRODUCTION

This project online OPD Appointment and hospital management system includes registration of patients, storing their details into the system, and also and lab. The application has the feature to give a unique user id for every patient , Doctor and stores the medical details of every patient and hospital tests done automatically. Facility to know the User can search details of a patient using the id. The Online OPD Appointment and Hospital Management System can be entered using a unique user id and password. The data can be retrieved easily. The interface is very user-friendly.

In this case emergency patient to connect available doctors to email subscriptions in printed format. Patient blood test check lab report can send directly to the patient. The data can be retrieved easily. The interface is very user-friendly. This is the access everyone and modification to the only administrator

2. Literature Survey

In recent years, several Online OPD and Hospital Management System have been introduced to improve the performance of students in different organizations.

In [1] Nidhi Malik, the patient's view about queue and their behavior in the queue. O. K. Belwal proposed a system the patients' demographic characteristic, nature of their illness, time they spent before reaching the hospital, on the queue to see the doctor and with the doctor.

In [2] Godphrey G. Kyambille, Khamisi Kalegele the proposed a system in this paper researcher present a mobile based application scheduling system form an aging patient appointment.

In [3] Marynissen, Joren, Demeulemeester, Erik the proposed a system each patient is assigned a specific path over a subset of the considered resources and each step needs to be scheduled. The main aim of these problems is to let each patient visit the hospital in his or her subset within the allotted time to receive timely care.

In [4] Florin Daniel Anton, Silvia Anton this researcher presents a system which was initially designed to manage the observation sheet and allow the recording of the physician observations to avoid problems in set down the information in the scrutinization sheet. The system allows also to t rain the resident students based on case studies but in the same time protects the patient privacy.

3. Existing System

The current manual hospital management system it is lot of paperwork. It is a very time-consuming process to maintain the records of sale and service manually. With the increase in data day by day, it will become a massive & tremendous task to maintain such huge data. Thus, it will require large quantities of file cabinets, which are huge and require quite a bit of space in the hospital, which can be used for storing records of previous details. The retrieval of records of registered previously patients will also be a tedious task. Lack of security for the records, anyone disarranges the records of your system. If someone wants to check the details of the available doctors, the previous manual system does not provide any necessary detail of this type.

4. Proposed System

We have created a new application from the solvent in Existing, doctors and pathologists can system so that patients handle it in an easy way.

1) Patient login:
If there is a new patient, he will fill in all the information and register, then his unique id will be created and the patient will login with that unique id After log in, the patient will see 6 Tabs. When the patient clicks on the book appointment, the

patient will see the information of the hospital and the doctor in that hospital and book the appointment of his choice. . If the patient is in an emergency condition, he can call an ambulance from the nearest ambulance station by clicking on the call ambulance option. The patient can see his nearby pathology and what services they provide. You can also download the pdf report sent by the pathologist and view it in your mobile.

2)   Doctor login:
    If a doctor is new in Doctor login, he will first register and login with his unique id. Then after clicking on the appointment option, how many appointments have been received? The doctor can decide which appointment to accept or not.
3)   Pathologist Login:
    If there is a new pathologist, he will register as seen and login with unique id. If the pathologist wants to send the patient's report, he can send it in pdf file with the unique id of the patient.

4.1. Result Analysis
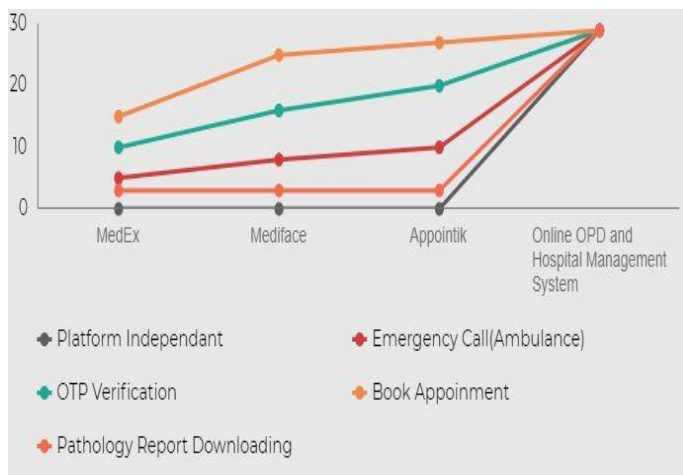
Figure 4.1 Result Analysis

The online Opd and Hospital Management app has been compared with other apps and we have shown the features of our app in it
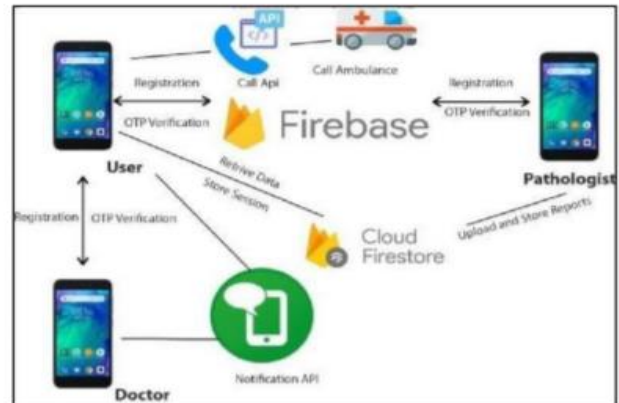
5. System Architecture

Fig 5.1 System Architecture

6. Methodology

Development process:

This development approach is known as Incremental Waterfall Development Model. Increment model is well known for its repeated testing process. This model is designed to take care of big project. Projects are usually managed in much better way when they are segmented/spitted into a hierarchy of chunks. Hierarchy of chunks includes phases, stages, activities, tasks and steps. Each phase can further divide into sub phases. Sub phases are used to produce deliverables. Requirements are usually fixed at initial stages before proceeding with development plans in system development projects. Following figure, represent example of Incremental development model.
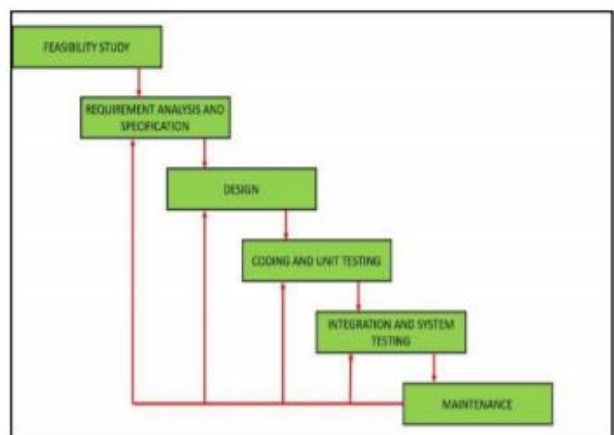

Figure 1: Incremental DevelopmentModel

7. RESULT

Fig 7.1

This is home page in application. In this user select button to login in themodule. There are 3 module patient, doctor, and pathologist.

Fig 7.2

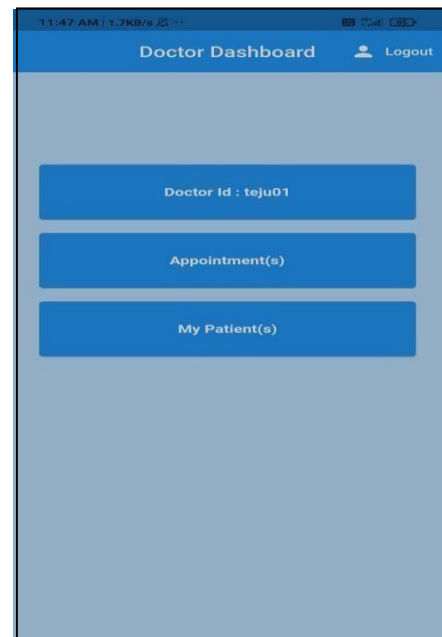This is registration form for doctor. Doctor fill all detail and doctor id is created

Fig 7.3

This is Doctor Dashboard there are 3 tab doctor id id ,Appointment and my patient. In appointment doctor see all appointment and accpect appointment and delete appointment. In My paitent
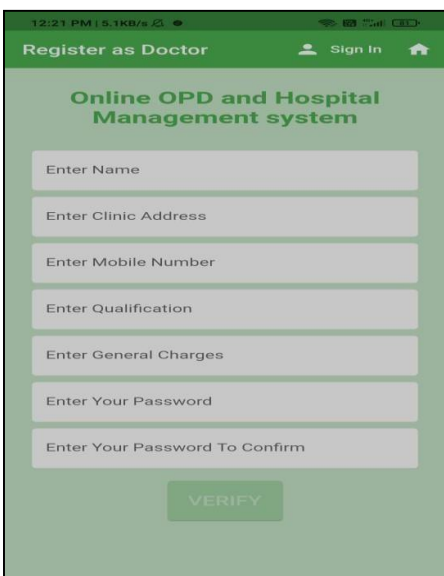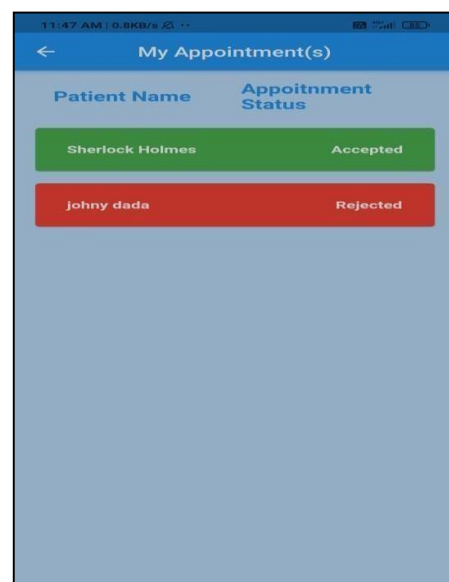

Fig 7.3.1

Tab doctor can see patient all details.Patient Appointment Listed
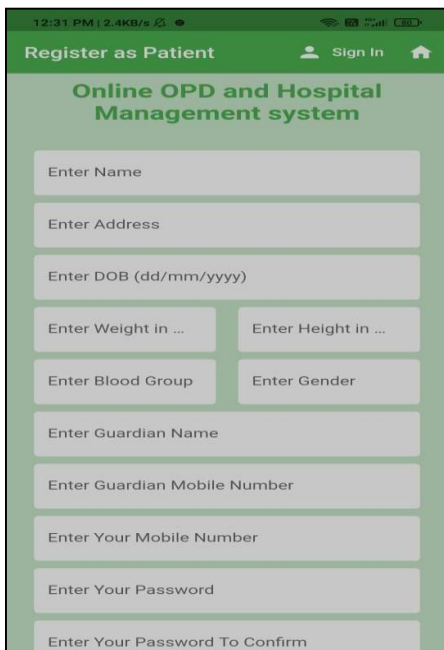
Fig 7.4

This is registration form for patient. Patient can fill all detail and create patient id.

Fig 7.6

After click on book Appointment tab this tab open. In this doctor list is given which is near to you.
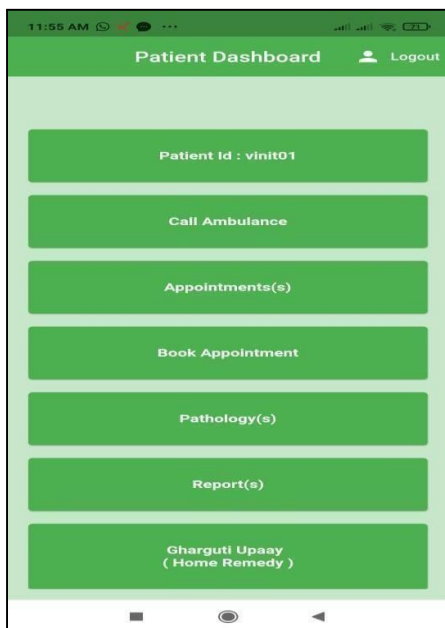

Fig 7.5

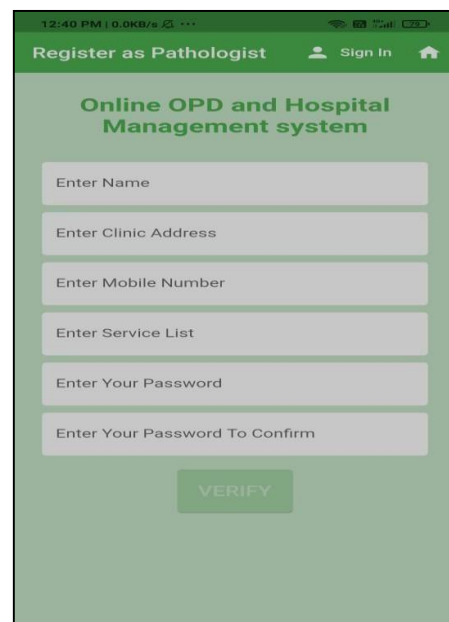This is patient dashboard after registration this tab is open.

Fig 7.7

This is registration form for pathologist

Fig 7.8

This is pathologist dashboard . there are 2 tab pathologist id and upload report. Pathologist can semd report to paitent through paitent

8. CONCLUSIONS

There are many software packages about Online OPD and Hospital Management Systems in the world. This is a developing field and many researchers are interested to develop new features and apply them to the software. The technique developed here attempts to include the decision This software is in modular form and can be adapted to any hospital or clinic. Eventually the developed software will be placed in the internet so that old and disabled patients can also have access to hospitals from the comfort of their homes

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