

“Online Diagnostic System”

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Abstract:- In a pathology laboratory, scheduling appointments is a time consuming and a manual process, which is prone to human error(s). There is also the fact that this traditional way of managing pathology laboratories is very inconvenient for the patients since they have to go to the lab to get an appointment and then to wait for their turn and give a sample for testing. And when the reports are ready, they again have to go to the lab to retrieve them.

Our system makes it very easy and convenient for the patients since it completely eliminates the need to go to the lab in most cases. The appointments are scheduled online, the sample is collected from patient's place and the reports are available to the patient online.

1. INTRODUCTION

The system is an online diagnostic lab manager application that brings up various diagnosis working online. Our system provides the service to book online request to collect samples from home and from the workplace give the online report. Our system will also provide choice to customer to select nearby pathology labs to book request according to cost and quality of the pathology lab customer can choose one of them. It provides faster services to the customers. This system provides increased sales and profit for diagnostic labs. This system is easy to use and provides user friendly GUI.

It is the responsibility of the admin to accept the lab requests and test requests. When labs register into the system, they have to provide information about them like the location and what tests they run. They also have to provide identification like a document or lab license etc. So that the admin will know for sure that the lab is legitimate and not fraudulent. After the admin accepts the lab request, the lab can add tests. They will have to provide all the required information like its cost, type, subtype, days required to generate reports. They also have to provide information about tests like blood sugar tests, where they have to specify the range of the normal blood sugar. Like lowest acceptable level and highest acceptable level.

The lab will know when their test request has been accepted by the admin as the status of the test request changes. They can also view the test request they have received and the information about the users who have requested the tests.

The user just has to register himself into the system and has to login to the system. After login user can choose the test they need and they will get a list of available labs. They can choose the lab according to cost and location. After selecting the test and adding it to the test cart, they will know when their test request is accepted. A person from the lab will collect the required sample from user's registered address. And when the test report is updated, the user can view and download it.

2. EXISTING SYSTEM

The Existing system is a manual scheduling of appointments. Most of the laboratories do not even schedule appointments over phone. Patients have to go there, take appointments, give sample like blood, urine etc., and when the reports are ready, they have to go to the lab again to retrieve them.

There is also this online application called Thyrocare which is based in Navi Mumbai. But its drawback is that it does not provide the patient the choice of a lab. Labs are allocated by the administrator. They also do not notify the patient through a text message when the reports are uploaded online.

3. SYSTEM OVERVIEW

Data of labs, tests has been computerized without using any manual effort. Patients can choose a lab according to the cost of tests and someone from the lab collects sample (blood, urine etc) from their place. Also, patients get a text message when their test reports are uploaded.

3.1 ADMIN MODULE

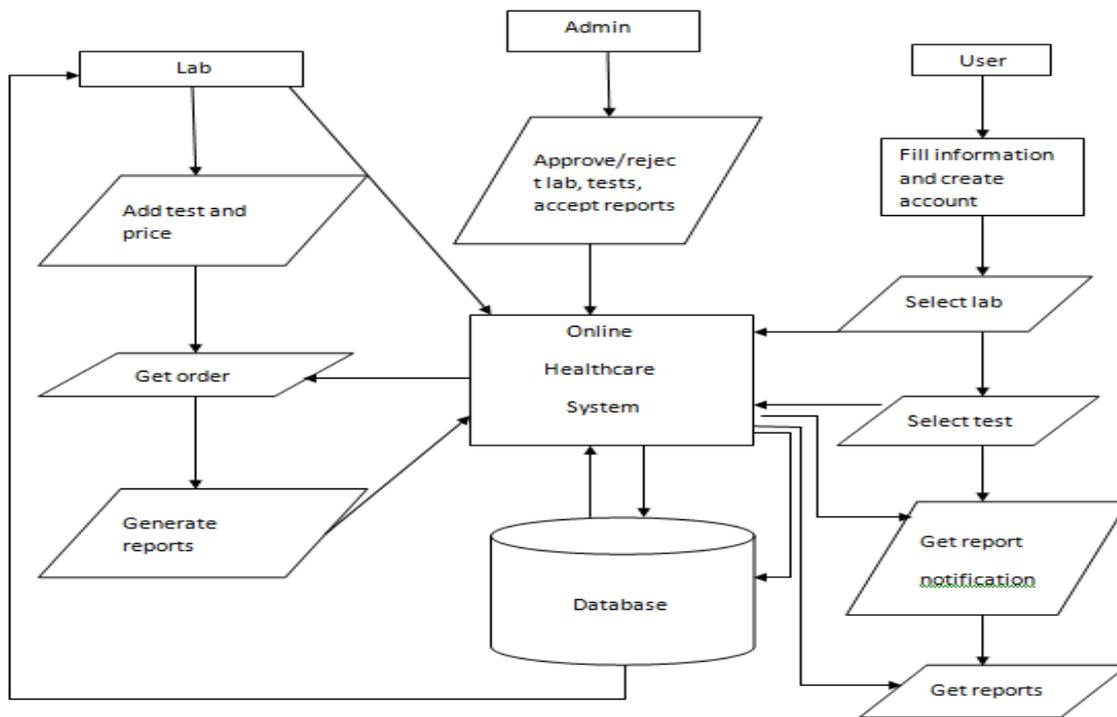
This module can create an account, Log in, accept or reject lab and test requests. This module also able to add a lab, remove a lab or a test.

3.2 PATIENT MODULE

Patient has to create an account and fill information. Patient module able to select the test type, according to which they will get a list of labs. They have to select a lab and fill required information like appointment date and contact and address.

3.3 LAB MODULE

The lab has to register first and fill their information. When the admin accepts their lab request and lab is registered successfully, the lab has to enter their available tests and other details about the tests like cost and time required to generate reports.



4. OBJECTIVE OF SYSTEM ARCHITECTURE

The main objective of this system is to make the process of appointment scheduling and test reports online. As well as give the patients freedom to choose from the labs.

The labs have to provide information about tests more than just its cost. Like what should the patient eat or not eat before the sample is collected. For example, if the test is to check blood sugar level then the patient is told not to eat anything before it.

The admin will accept or reject registration requests of laboratories based on whether or not they are legitimate and whether they are within the allowed geographical area. The user can order tests, which they can see in their test cart. And when the admin accepts their tests request, they will know it as the status of the test changes from 'Requested' to 'Accepted'. They will get the reports on their user account in the form of pdf. The user will not have to visit the laboratory as the required sample for test will be collected from their registered address.

5. CONCLUSION

This system makes the task of appointment scheduling very easy. And this is very convenient for the patients as it minimizes their efforts by eliminating their need to visit the lab since all the processes are made online.

6. REFERENCES

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