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# E-TEST LAB

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**ABSTRACT**---- *Health care in our state as in many other states is highly increased with growing demand for medical treatment and lab services. The lab records must appropriately have all the patients medical lab history. Lab assistants must maintain flawless records, because this document serves a number of purposes. This study on E-Test lab is design to transform the manual way of searching, sorting the nearby test and other related details into electronic medical record in order to solve the problem associate with manual method. Hence the computer based software was provided to replace this manual method. These computer based software generate the patient report as the patient register in and out of the lab. It also generate the information regarding nearest labs and various tests. This paper generally looks for a more accurate, reliable and efficient method of computer to facilitate lab records to ensure efficient outcome that will lessen time consuming.*

**Keywords** --- *Staff Detail, Electronic Medical record, lab record, Patient record etc.*

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## I. INTRODUCTION

In the present era of globalization and advanced technology efficient record keeping cannot be over emphasized. Imagine the scenario when the manual records and manual modes of instruction get replaced with electronic systems. Such replacement can be done in the area of testing labs. Developing E-Test Lab software would be very useful to the testing labs that can effortlessly access the data easily and more securely. This software provides the patients the way in which they can book a test in a nearest lab. They can also see the rates of the available test and receive report online. If the patient goes outside the state for high medical checkup he/she cannot take all the test reports with him as he/she can see the tests online in anytime and anywhere. They can also pay the test amount online so that he/she never goes the lab again and again. Therefore test lab records can be used as an evaluation tool. The more complete the record, the better the patients will serve the physicians. Every lab record system must include the following specific information: Lab staffs detail, patient's detail, report detail.

## II. PROPOSED WORK

### 2.1 Login Form

The login form is necessary to secure the LabS data or the patient data .The login form contain an user name and password. The admin when enter the username and password then the entire information related to the admin will be display. If the admin is tester then tester will get the data related to the tester itself other data will be hidden from the tester .In the LOGIN FORM we can see that the enter user name have the textbox. Different password allotted to different user hence the lab database is secure .In this case the data will be retrieve from the database when user login so that the related data will be shown to the respective user. We seen the login form of the project which is important for securing the data .The user can change the password and if user forgot the password then user gain that password after the confirmation .The confirmation of the user will done when information of the user will match with the data present in the database regarding the user. Due to this login form the management of testing labs is easier than earlier days at that time the entire record was maintain in the manual record.

### 2.2 Home Page

Home page form contain list of the entire data include in the project different modules we can see and each module contain its respective forms the modules include in the project are staff, patient , report, bill, etc. the homepage contain all this . When we click on the staff we get the tester form. Patient contain the information related to the patient when click the patient we get different form. Next form is Report when we click the report we get the data related to the report such as blood report, urine report, serology report, haematology report etc. Staff, Patient , Report, User, About Project .we see that the data relate all this menu will save in the database.

### 2.3 Staff Detail

In Staff Detail we get the detail information of the tester and analyser staff. The staff module contain the information about the tester , analyser and other person who work in the lab. In staff module we can add the list of testers, we can add the list of analysers, and other staff members. Here we can modify the list if we want to update the current data of the lab, we can delete the data if we want to delete the data. The total information about the staff we will get in the staff model. The staff module is main key of the E-Test Lab project.

### 2.4 Patient

Handwritten medical record is associate with poor legibility which can contribute to medical error, the standardization of abbreviation are encourage to improve reliability of paper medical records. Digitization of form facilitates the collection of data for lab studies. Duplication of lab tests and other services can be prevented by good record-keeping of any type. However, because database records can be available at many locations at once, integration of services and awareness of duplication can be reducing. Database management system enable health organization to access old records instantly, thereby allowing the health work to send to another health organization in the emergency The procedure involved in the current system is that, when a patient visit the any testing lab for performing some test, the patient will first of all buy the admit card which contains name and other information needed, and card identification number. The patient will then waits for the diagnosis made by tester or any other recommended physician. In this current system, file is used for keeping individual patient card enclosed in a file. This system is tracing a record files slow in processing of records. In the electronic data record we can access the data and retrieve the data faster as compare to earlier handwritten system. In this module we can see the details of the patient record such as the admit card form, number of tests performed, which test, and other related patients information. Here in the patient module the entire data is in the electronic data from where we can see, retrieve the entire data of the patient when he/she enter the relevant code of the admit card and the data related to the patient his/her name ,address, gender, cause, referred by, Doctor name.

## 2.5 Report

Report Form will save registration number, Name, Test Date, Test name, Age ,Gender & Address of the patient. Report will show the kind of disease from which patient is suffering. The Report detail will print after the entire information is fill in the form and another button is Display which will retrieve the entire data from the database after entering the patient registration number.

## 2.6 User

User Form will save the data of the employee, when we click on user type we get list of different user such as tester, Admin etc. Entire data i.e. Full Name, Address, User Id, Password, Mobile No. Email Id.

## III. CONCLUSION

The proposed system will provide a tool that will be so efficient effective and intelligent to retrieve and store a Lab data.

- . It will be fast reliable, accurate, and accountable and interconnected system with high security.
- . The system is broken down into different separate modules that will help in providing the micro level picture and up to date knowledge of the proposed system and its functioning.
- . It will be quick responsive for various analytical and computational methods (inbuilt),hence time saving and quicker in its performance.
- . It will improve management processes and services in a cost effective manner with a function of accessing any record of patient history required at any time.
- . Recording and processing with many types of reports and their variations and decisions recording these reports and future analysis is worked out in the system keeping in track the patient, doctor and the technologist.

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