

COVISOFT COVID-19 TESTING MANAGEMENT SYSTEM FOR AIRPORT

Stimit Shah¹ Sagar Kondle¹ Ajay Maile¹ Arbaz Kamtikar¹ Pavan Wale¹ Prof. V.V. Kulkarni²

Department of Computer Engineering Brahmaveddada Mane Institute of Technology, Solapur, Maharashtra, India.

Abstract:

Nowadays, COVID19 Testing Management System is one of the most essential tools that are mostly used in Airport's & Testing Lab; it is mostly used to manage COVID medical lab related activities. In this project we tried to develop a computerized and web based COVID Testing management system. Our main intention is to allow this application to be used in most retailing Airport's & COVID Testing lab, where a small point of customization will be required to each COVID lab in the implementation period. This system is designed to overcome all challenges related to the management of diagnostic that were used to be handled locally and manually. The system is an online Airport & COVID lab manager application that brings up various COVID test working online. Using this system, it will help us to records all transaction made at the daily tests; recognize all passengers, employees, etc. It will manage all activities around the COVID lab that increases productivity and maximize profit, it will also be minimizing the risk of getting loss because all transactions are recorded to the system.

Keyword:

phpmyadmin , Visual Studio , Xamp , MySQL , php .

1. INTRODUCTION

COVID19 Testing Management System is web based technology which brings up various diagnosis works online. Here passengers are first allowed to register on the website and provide personal, test information. Once registered with their address and contact details, the patients may now see a variety of tests conducted by the lab. The patient will select the required test and book appointment after that lab center send a lab boy at registered address to collect a sample. After successful sample collection patient can track their test history using the name, order and registered mobile number. The system allows admin to attach a copy of the report into the system and automatically shown on user side so user can download report.

In COVID19 Testing Management System we use PHP and MySQL database. It has three modules i.e.

1. Admin
2. User (Patient).

Admin Module:

Admin is the super user of the website who can manage everything on the website. Admin can log in through the login page.

User (Patient) Module:

- User can visit the application through a URL.
- In this section, Users can search their test report using order number, name and registered mobile number.
- Dashboard: In this section, the User can see the in which State of how many tests are done.

2. PROBLEM DEFINATION

Today also we have to go to the COVID Test Lab centre, wait in the queue to get our COVID test done. As Technology is growing rapidly, we are also moving to a technical world where everything we want to be online. So with the help of this project, we are bringing the use of technology in the field of medical diagnosis where patients can avail all the diagnosis facilities at their door steps. This project makes the diagnosis process easy and reduces the burden of patients. At a same time, its help the diagnostic centre to track all their patients details with their test reports. This access friendly software provides quick and effective services which helps the diagnostic centre to increase their sales and profit.

Requirement Specification:

Software Requirement:

OS- Windows / any other equivalent OS, Apache, XAMP control panel, Browser (Chrome, Mozilla Firefox, Explorer... etc)

Hardware Requirement:

System 32/64, HDD- 20GB, RAM- Minimum 1 GB required.

3. SYSTEM DESIGN AND ANALYSIS

3.1 ANALYSIS

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online. So, with the help of this project, we are bringing the use of technology in the field of medical diagnosis where patients can avail all the diagnosis facilities at their door steps. This project makes the diagnosis process easy and reduces the burden of patients. At a same time, its help the diagnostic centre to track all their patients details with their testreports.

3.2 DESIGN:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analysed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

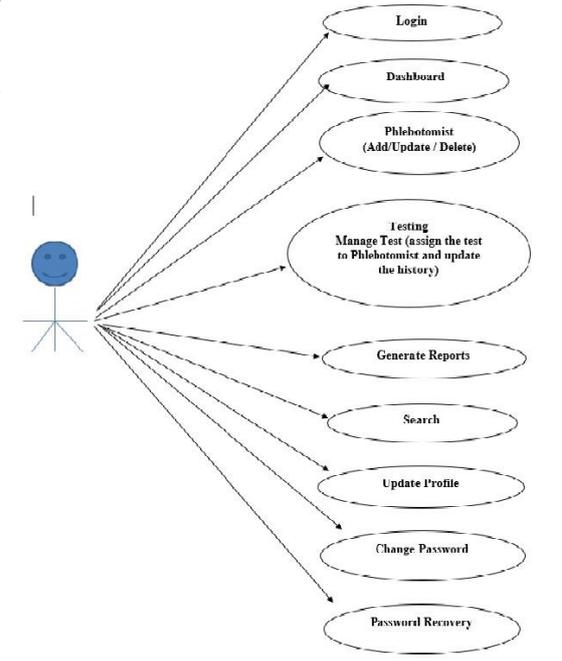
The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps.

Preliminary design is concerned with the transformation of requirements into data.

3.3 UML Diagram-

Admin:



User:

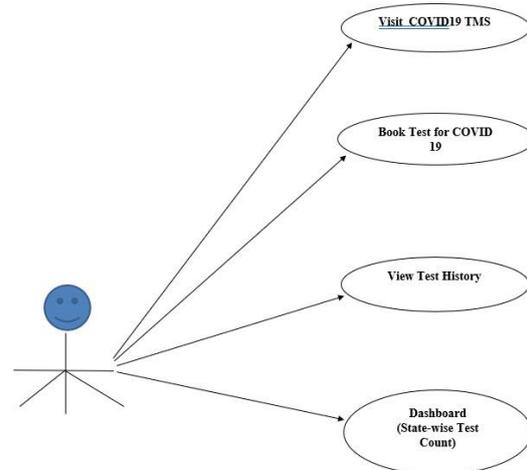


Fig 2.3.1 Use Case Diagram(User)

4. IMPLEMENTATION

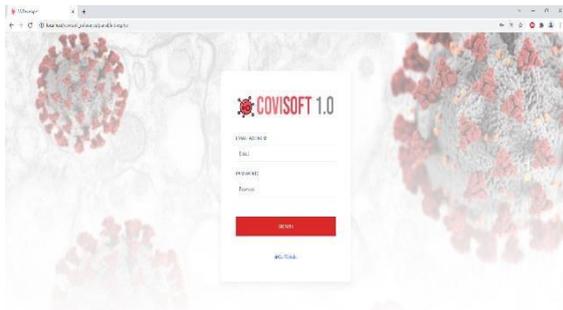


Fig 1: Admin Login Page

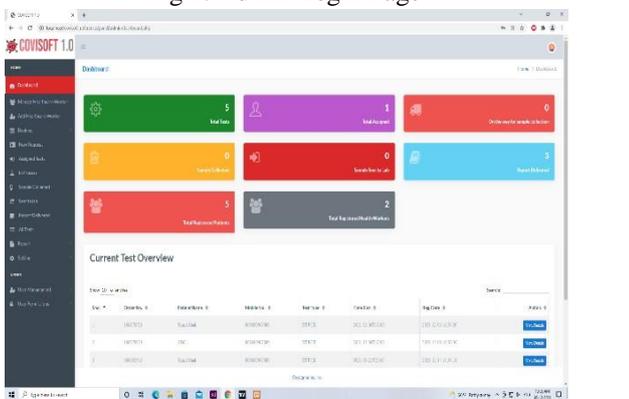


Fig 2: Admin Page (Login Successfully)

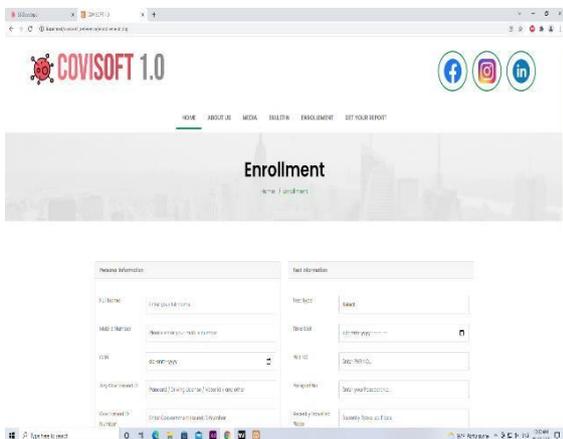


Fig 4: User Login Page

5. CONCLUSION

COVID Testing Management System is very much graceful and lively. Passengers have to register to the portal by giving their details and then they can take appointment through online with minimal effort. The Phlebotomist comes to patient address to collect the sample. Once test is done and test report is generated patient can download the report by logged in to the portal. This system can be implemented in diagnostic labs and clinics.

- Automation of the entire system improves the productivity.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

6. ACKNOWLEDGMENT

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7. REFERENCES

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