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Medical Healthcare Management System with Web Application

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Abstract: ***Medical Health check-up and Management is a major issue in most corporate companies come up with. This system is about managing the appointments, reports and generating the final Health Reports card. When it comes to conduct Health check-ups in bulk, there is major issue with management. This companies requires to get best services by taking complete responsibility of medical health check-up. To maintain data and information there needs to be solution to make management simple and easy. The solution depends on the business conducted to provide better services. It is hoped that we provide both solution and service which manages the data and information along with the services to the people, which will be achieved with Web application and help of Cloud Services.***

Keywords: MongoDB database, Web Application, Health Check-up, PHP, Cloud

I. INTRODUCTION

In today's world everything is becoming computerized and connected to the Internet. Diverse organizations have already connected to Internet which lets them run their business on internet. One of the most significant sectors is their health care sector. The people's origination, institutions and corporate companies that deliver health services to meet the medical needs of the individual or corporate companies is referred to as Medical Health Check-up System.

The significance of health care is growing in a society and many Information Technology companies are revolutionizing the health sector with advanced technologies.

The main objective of the paper is to create a web-based application for the corporate companies in India managed by third party companies where medical data can be accessed anytime, from anywhere. Medical Heath Check-up system application is accessible through computer, mobile phones, through internet to provide 24 by 7 online service. In this system, clients are registered to book appointment and conduct health check-up, all the data will be stored in the database.

The system has registered doctors of reputed hospitals, which will give medical advice and suggestions with necessary medications to the clients after requested for an appointment. This paper is organized as follows: Section I provides the introduction of the Medical field and information about it. Section II will discuss the works of the related work online health care, section III will give Methodology of the proposed system, and section IV will provide conclusion.

II. RELATED WORK

In India, heath management system is moving to computerized system with growing Information Technology industries. Different health organizations already have advanced health care management system.

For example, hospitals like Apollo uses their own developed software to conduct the daily activities of the hospital such as – patient appointment registration, scheduling appointments and diagnostic tests, billing system and many others. This application software serves only the hospital. There are no scopes for different organization and corporate companies which wants conduct health checkup of their employees.

One of the major problems encountered was the management of health data and analysis for different corporate companies.

III.METHODOLOGY

Health checkup management system is a web application which provides health related services to corporate companies. The system will be developed using Visual Studio Code, a PHP, and CSS Editor. The editor will also contain the Laravel Framework. The database will be designed using Mongo DB with Apache as the server. The above-mentioned technologies will be run on the Amazon Cloud service instance and the data itself will be stored in the Amazon cloud.

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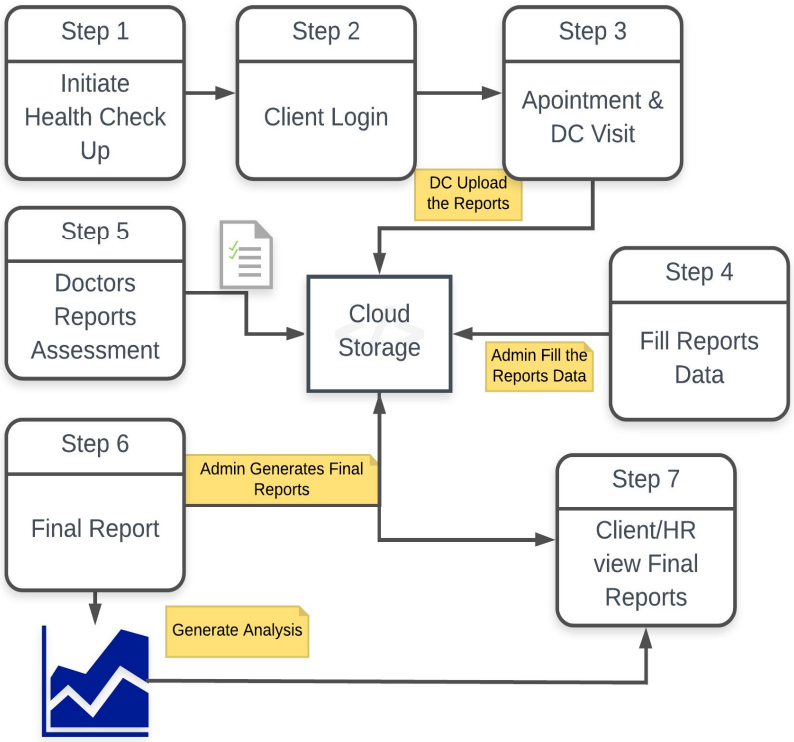


Figure 1.pdf Basic Flow Chart

A. Admin Module

1) The admin will register the clients of the corporate companies with photo and thumb impression.
2) The admin maintains the appointment of all the client and also confirms the appointments with diagnostic center.
3) The client will also receive the appointment mail.
4) Admin will collect the medical reports of the client from the diagnostic center and upload the reports on the system.
5) The Admin will input reports data into the system in order to generate analysis reports of both individual and multiple client.
6) The admin will provide access of the reports to the doctors, they will view the reports and provide necessary suggestions.
7) After that the administrators will create the summary reports of each client and create the final reports with summary.

B. Doctors Module

1) The doctors will be provided the access to the reports which will provide the suggestion based on the test parameters.

C. Diagnostic Center Module

1) The diagnostic center will be able to see all appointment that are booked at their center. They will have to confirm the appointment of the client.
2) Once the appointment is confirmed DC will provide necessary instruction to the client for pre-test preparation before conducting the test.
3) After the test are conducted the DC will send the reports through system.
4) Each DC will be provided with login ID and password. Through which the reports will be uploaded on the system.

D. Client Module

1) The client will be provided with their login id and password through which they will access the reports with the analysis
2) They can also download the reports of the which will contain the final reports

E. Corporate Module

1) On the corporate side the corporate companies will be able to view and download the individual reports of their employees.
2) They can also see the analysis of the individual clients or they can also see the analysis of multiple clients.

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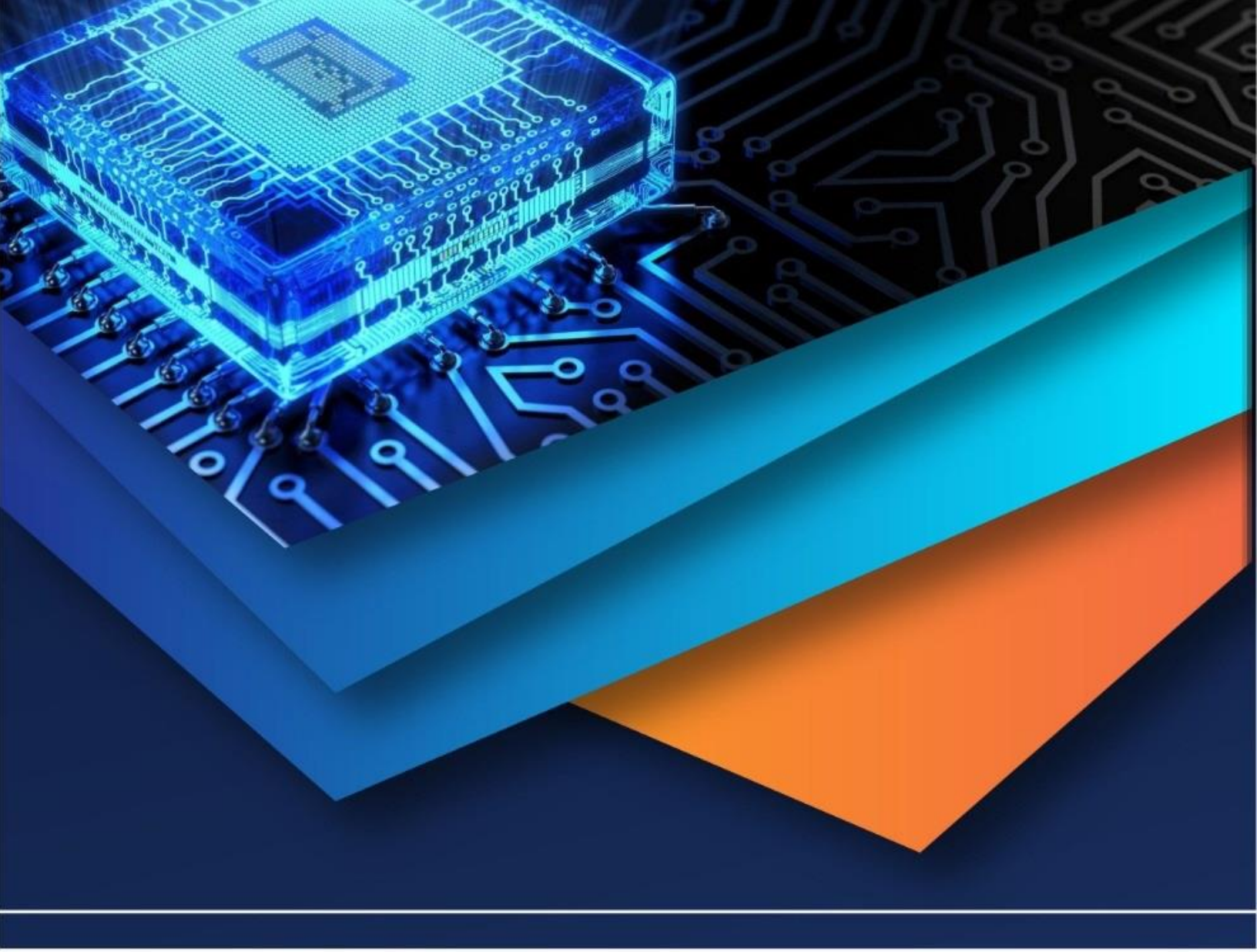
IV. CONCLUSION

We have studied reference papers and find out there is not online available system for corporate sector. The existing system are available for hospital and diagnostic centre only. The proposed system will be available for corporate sector.

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