

Gautam Buddha University
(SOICT)

HEALTH CARE

Online Health Management Portal

Hackathon Project


Ashutosh Sharma

20/BCS/079



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INTRODUCTION

Health Care management system is a web application developed for hospitals to manage staff data and patient's data effectively. The main aim of developing "HEALTH CARE" is to computerize the Front Office Management of Hospital. Hospital Management System is designed for multi-specialty hospitals, to cover a wide range of hospital administration and management processes. The project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. Healthcare is a field in which accurate record keeping and communication are easy. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. With the increase of demand in hospitals, we need effective data management system for handling patient's data, staff data and treatment details in an effective way. It deals with the collection of patient's information, diagnosis details, etc. It includes a search facility to know the current status of each room. The main intention of introducing this system is to reduce the manual work at Health center counters. Quicker processing of receipt would mean better service to the patients. It would also help in the complexity of maintaining the records manually and thus less time is wasted on rework.



PROBLEM IDENTIFICATION IN COVID-19



COVID-19 virus and his new variants (omnicron) has wreaked havoc around the world, infecting millions and raising fears of uncertainty. As a consequence, Governments have imposed stringent social distancing and lockdown measures to control the spread and contain the pandemic. This has left, those with medical priorities for routine check-ups and other chronic diseases in a quandary. Amidst rising fears of disease infectivity from contaminated surfaces, people have turned their dependency on technology. Technology powered virtual consultation has stepped up into the spotlight aiding healthcare provider organizations, doctors, and patients with digital consultations aired at the safe environs of a hospital/clinic straight to a patient's home. Coronavirus pandemic has forced lockdowns and increased reliance in the field of telemedicine, which includes specialized consultations not only with general practitioners but with the specialist's into Cardiology, and others.

ABSTRACT



- In the COVID-19 pandemics, the Project “Health Care” can be used by the patient in performing online medical enquiry. The web portal "Health Care" provides medical system. This management system can be used by the patient in performing online Appointment and approve the Appointment by getting SMS automatically.
- The "Health Care" is a web-based application that allows visitors to search for Oxygen, Plasmas, and also search for vaccine availability. This portal provides 24-hours online Ambulance Services. Everyone requires a daily enquiry regarding medical service which will be available on the portal. In this portal, patients can be consult with any doctor's and take advice. Patient can also visit medical shop where he can see available stock of medicine and also purchases the medicine.
- The website results in many advantage such as reducing the burden on the enquiry counters. A patient can even renew his Appointment online. Patient can also update our Test Reports via this portal.

OBJECTIVES

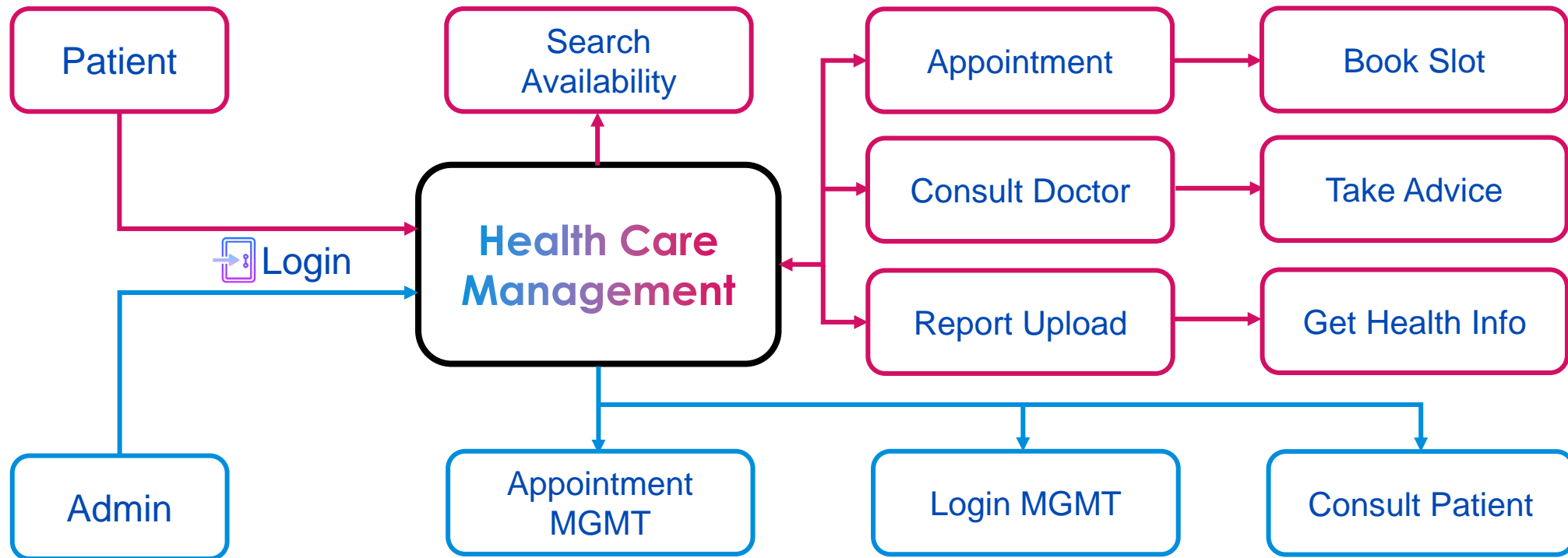


The portal emphasizes on providing an easy interface to the patient with the number of services for the ease of the patient. The site is also equipped with the facility of renewing one's Appointment. The objective of the proposed system are:

- Make a user-friendly portal.
- To provide web based Appointment facility.
- To provide anytime anyplace services for the Patient.
- To provide 24 hours online ambulance service.
- Easy for patient to use and customize.
- To provide online consult panel, between all registered patient and doctors.
- To provide web based Report Upload facility.
- Patients can purchase medicines via the portal using PayPal.
- Visitors can view the availability of Oxygen Cylinder, Plasma, And Vaccine Also.

DATA FLOW DIAGRAM

DFD is pictorial representation of the system. DFD is a graphical representation of the flow of data through the information system



S/W AND H/W REQUIREMENT



Client Side

- Internet explorer 8, Chrome or any supported browser
- Operating System (Any)
- Pentium 4 & Above
- 256 MB RAM
- 80 GB HDD

Server Side

- Web Server: IIS 7 or higher (Windows server OS).
- Application Framework: Microsoft .NET Framework 4.7.
- Data Base Server: MS SQL SERVER 2008 (Windows Server OS).
- Xeon based or higher end Server
- 4 GB RAM
- 200 GB disk space

Technology Used



.Net Framework

- .NET is a software framework that is designed and developed by Microsoft. The first version of the .Net framework was 1.0 which came in the year 2002. In easy words, it is a virtual machine for compiling and executing programs written in different languages like C#, VB.Net, etc.
- It is used to develop Form-based applications, Web-based applications, and Web services, Web API's.
- It is used to build applications for Windows, phone, web, etc. It provides a lot of functionalities and also supports industry standards.
- .NET Framework supports more than 60 programming languages in which 11 programming languages are designed and developed by Microsoft.

Asp.Net (Frontend)

ASP.NET is a web application framework designed and developed by Microsoft. ASP.NET is open source and a subset of the .NET Framework and successor of the classic ASP(Active Server Pages). With version 1.0 of the .NET Framework, it was first released in January 2002.

C# (Backend)

C# is a general-purpose, modern and object-oriented programming language pronounced as “C sharp”. It was developed by Microsoft and led by Anders Hejlsberg and his team. C# is among the languages for Common Language Infrastructure and the current version of C# is version 7.2. C# is a lot similar to Java syntactically and is easy for the users who have knowledge of C, C++ or Java.

MODULES & FUTURE SCOPE



- Google Map
- Encryption Manager
- Database Manager
- Upload Manager
- Email Service
- Google Cloud

Following modification or upgrades can be done in system

- More than one Hospital can be integrated through this software.
- Web services can be used to know exact donation status of Blood.
- Client can check own health status using this portal.

CONCLUSION



- Conclusion of this Project to make online all facility which is providing in Hospitals.
- In this Project patient can apply for Appointment online and make payment online.
- Patient can check Doctor's list.
- Patient can book ambulance via this portal which is available 24 hours.
- Patient can take advice to doctor through this portal.
- Patient can renewal Appointment.
- Patient can see the available stock of medicine.
- Patient can see new notification about Hospital and doctors which is uploaded by Admin.
- When patient apply for appointment, then admin check all the details and provide Appointment to patient and give a successfully message to patient through SMS or Email.

THANK YOU!

