
G.L.A. UNIVERSITY



TOPIC : MINI PROJECT SYNOPSIS ON E – Health Care Website

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INTRODUCTION

■ About the project

E Health Care Online Appointment System is a Web Development Project. It is a smart appointment booking system that provides patients or any user an easy way of booking a doctor's appointment online. This is a website that overcomes the issue of managing and booking appointments according to user's choice or demands. The task sometimes becomes very tedious for the compounder or doctor himself in manually allotting appointments for the users as per their availability. Hence this project offers an effective solution where users can view various booking slots available and select the preferred date and time. The already booked space will be view in "My Appointment" Button. The application uses HTML , CSS & JavaScript as a front-end and SQL database and PHP as the back-end.

■ Primary Reason to choose the Project

- Patients are increasingly looking at convenient ways to book appointments. They prefer to use options available on their mobile or laptop to book appointments. The pandemic has made sure that digital modes are embraced even by sections of society that was either hesitant earlier or had limited access to the internet or such tools. Patients are also likely to be more welcoming of these tools. Having a presence on the internet is a starting point. Having a convenient appointment system using which patients can reach you is the next step. Every doctor should adopt digital tools lest they be left behind. This will save the time of both patient and the doctor and it also save the manpower. So , this is Primary Reason to choose this Project.

■ The main objective of the Project

- ***24*7 booking: Anytime Anywhere :***
A doctor appointment booking system, available on the internet, allows patients to book an appointment from the comfort of their homes, using their computer, laptop or mobile, and at any time. No matter where they are, they can contact doctors of their choice in any location. Even when they are traveling they can consult with their doctor.
- ***Organise your schedule better :***
Imagine a situation where multiple appointments are queued up because of manual error. As a doctor, you control the number of people who would be at your clinic at any point of time. This is particularly important given that social distancing is becoming the new normal. With an online appointment booking system, the doctor is in full control and can plan his/her day without any sense of trepidation.

- ***Making employees and staff more productive :***
A doctor appointment booking system is a self-service tool for patients to book appointments. Your staff have their time released from handling phone calls from patients desiring appointments. Instead they can focus on other tasks and improve their productivity.
- ***Access appointments on your computer, laptop and mobile phone :***
As a doctor, you can access the patient appointment information on any device. You should have the ability cancel appointments in the event of any emergency. The online appointment system give you all the appointment details at any day time.
- ***Improves patient satisfaction :***
Patient experience is of paramount importance. No patient would like an experience that is not smooth. An online doctor appointment system enhances patient satisfaction. Patients no longer have to be worried about the wait times in your clinic. They can plan their daily schedule better. They spend less time waiting to meet the doctor. All this goes a long way to enhance patient satisfaction.
- ***Multiple locations and multiple doctors :***
A good online doctor appointment booking system can manage multiple locations and multiple doctors. Your clinic may be operational in multiple places and each clinic may have multiple doctors each of who is available in a particular time slot. Does your system have the capability of managing these complexities? There should also be no requirement to have multiple staff to manage all this. Instead the system should manage multiple locations and doctors.
- ***Time-Saving :***
The staff spends less time on managing appointments, and phone booking, and can, therefore, use their free time for more urgent and vital tasks. The patients can also save time as there is no need for calling the hospital and booking an appointment in the middle of their busy schedule.

■ **Scope of the Project**

The project can be implemented in hospitals and clinics :

E Health Care Online Appointment System provides patients or any customer an easy way of booking a doctor's appointment online. This is an internet based system that overcomes the issue of managing and booking appointments according to customer's choice or requirements. The task sometimes becomes very tedious for the compounder or doctor himself in manually allotting appointments for the customer as per their availability. Hence this project offers an effective solution where customers can view many booking slots available and select the preferred date and time. The system uses HTML , CSS & JavaScript as a front-end and MySQL database and PHP as the back-end. The Doctor Appointment System. It can also maintain list of users & doctors , available appointment time, book appointment, cancel appointment, view his appointment history.

■ Working Methodology Of the Project

Appointment booking software is a web-based Project that allows clients to self-book appointments. These tools centralize employee scheduling and appointment management into one digital solution. Beyond managing appointments and staff availability. Relying on one central scheduling solution eliminates double bookings and helps streamline operations. With hours back into their work day, your staff will have more time to serve clients and create a stellar experience. Most teams already manage some aspect of appointment scheduling digitally. Online booking tools reduce your manpower and give you better results. From a web portal you can manage every thing related to the appointment scheduling.

- ***Who Can Uses Online Appointment System Website .***

- Any business that makes client appointments can benefit from automated scheduling Website , including:
 - Doctor's clinic
 - Salons and spas
 - Home services companies
 - Real estate companies
 - Gyms
 - Organizations that offer tours, such as museums and universities
 - Health care organizations , etc

Details About the Hardware and the Software

■ System Requirements :

Supported Operating System :-

- Windows(7/8/10/11) : This project can easily be configured on windows operating system. For running this project on Windows system, you will have to install WAMP or XAMP on your system.

Software Required:

- Web Browser : Google Chrome, Mozilla Firefox, Microsoft Edge etc.
- DATA BASE - MySQL Database.
- Web Server – XAMPP, WAMP, LAMP etc.

■ Hardware Requirements :

- Hardware Devices: Computer System
- Processor: Intel i3
- RAM : Min. 2GB
- Hard disk : Minimum 32GB.
- Display : 1280x1024 or higher.

Listing out testing technology

Frontend and Backend :

Frontend :- HTML , CSS & JavaScript

HTML : Page layout has been designed in HTML.

CSS & JavaScript : CSS & JavaScript has been used for all the designing part.

Backend :- PHP & SQL

PHP: All the frontend logic has been implemented in PHP.

MySQL : MySQL database has been used as database for the project.

Module Description

A module description provides detailed information about the module and its supported components, which is accessible in different manners.

User (patient) Module : The Users have to first register themselves to login into the system and main objective of this module is provide all the functionality related to patient.

- User Registration Page
This module will help the user to register by providing the details.
- User Login Page
This module will help the user to Login by providing the Email & Password
 - Edit Profile For User
 - Forgot password for User
 - Change Password for User
- Book appointment page
This module will help for the user by booking the appointment of the doctor.
- Consulting (to doctor)
In this module patient can consult to the doctor by dropping the message.

Doctor Module : The main objective for developing this module is provide all the functionality related to doctor. This is a role based module where admin can perform each and every operations on data. The access level restrictions has also been implemented on the project.

- Doctor Registration Page
- Doctor Login Page
 - Edit Profile For Doctor
 - Forgot password for Doctor
 - Change Password for Doctor
- Appointment Request Page (Approve and reject the appointments)
- Update Schedule page
- Message page
- Doctor : With Limited Access

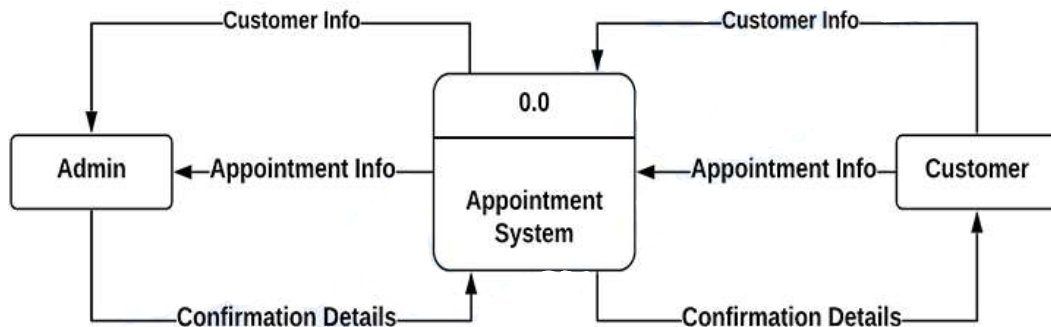
Admin Module : The system is under supervision of admin who manages the bookings made and main objective of this module is provide all the functionality related to admin.

- Admin can Add New Doctors
- Manage Doctors Registration Request page
- Admin will be able to delete the records of the patient
- Admin : With Full Access
- Admin Can View :
 - Registered users
 - Registered Doctors
 - List of all Appointments

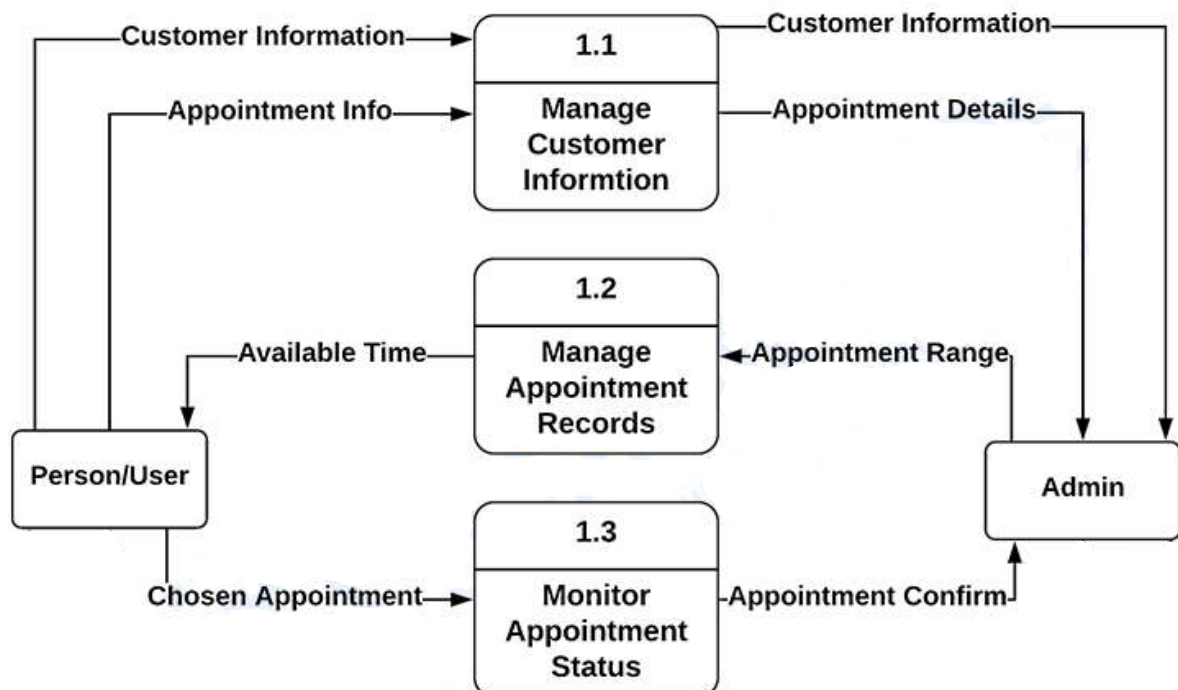
Data Flow Diagrams

DFD:- A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

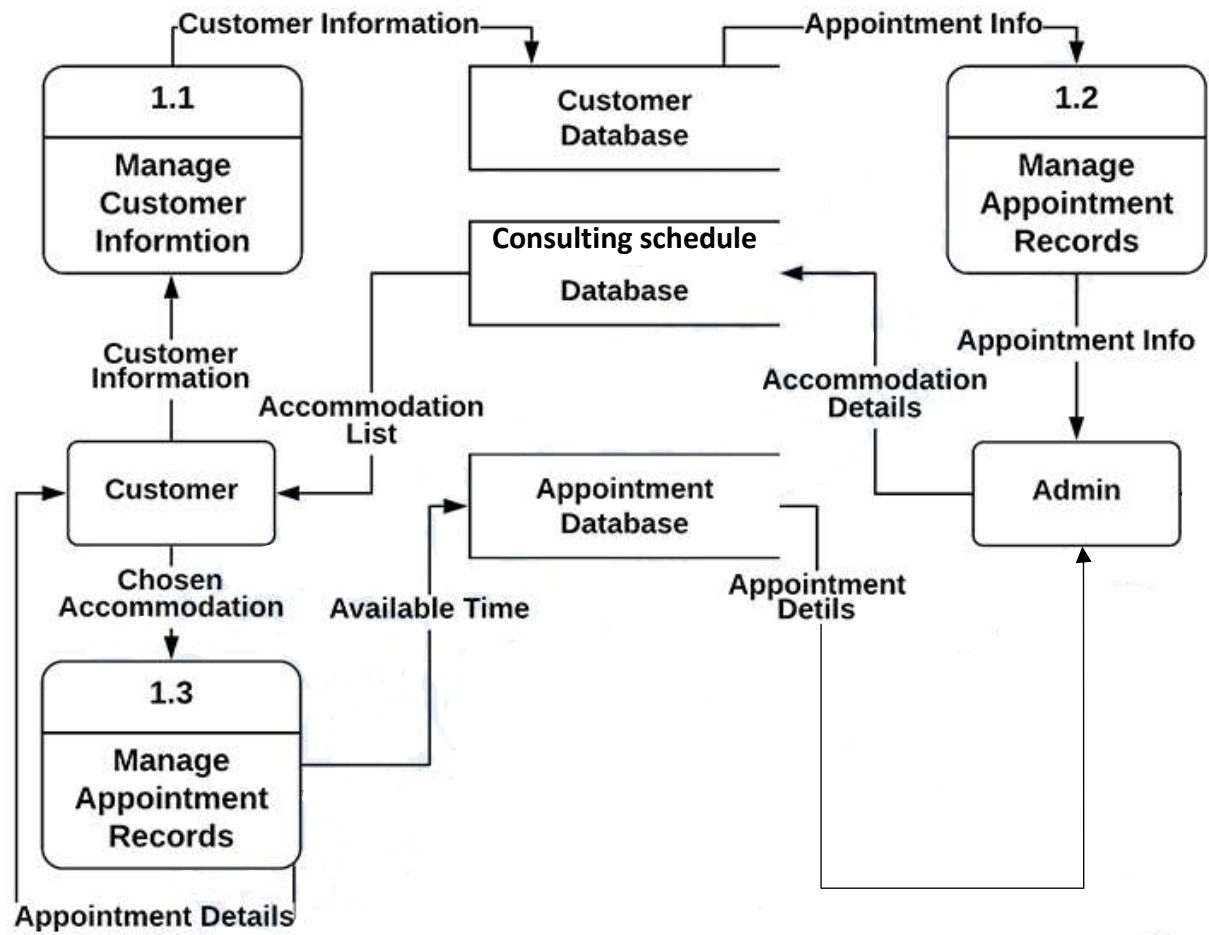
0 Level DFD:-



1 Level DFD:-



2 level DFD:-



Conclusion

Patients are increasingly looking at convenient ways to book appointments. They prefer to use options available on their mobile or laptop to book appointments. An online doctor booking appointment system that integrates seamlessly with an Electronic Health Record (EHR) is ideal for doctors as well. It reduces fatigue and frustration. Adopting digital technologies involving the use of appropriate tools is recommended for doctors. The pandemic has made sure that digital modes are embraced even by sections of society that was either hesitant earlier or had limited access to the internet or such tools. Patients are also likely to be more welcoming of these tools. Having a presence on the internet is a starting point. Having a convenient appointment system using which patients can reach you is the next step. Every doctor should adopt digital tools lest they be left behind.

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