



IJIRSET

International Journal of Innovative Research in
SCIENCE | ENGINEERING | TECHNOLOGY

e-ISSN: 2319-8753 | p-ISSN: 2320-6710



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY

Volume 11, Issue 5, May 2022

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 8.118



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A Survey on Reception-Less Doctor Appointment System

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ABSTRACT: We created this reception less doctor appointment project to reduce the waiting time of a patient by getting the appointment of a doctor without much stress. This project is a simple graphical user interface-based application that is extremely easy to grasp and use. Talking about the application, the admin can easily book, update, and delete appointments. In order to get a doctor's appointment, the patient has to enter the patient's name, age, contact number, gender, and appointment time. The remaining feature is we can update and also delete records. Simply by getting into the patient's name, the user will edit and update the important details. The project contains both admin and client side from where the admin can maintain patient records easily. The project file contains a python script (Doctor appointment system. ipny). Also, the design of this project is very simple so that the user won't find any difficulties while working on it. Our doctor appointment system in Python helps in easy management of patient's records and data. Before we run this project, we must install VS code on our computer for running the python code.

KEYWORDS: Doctor, Appointment, Python Script.

I. INTRODUCTION

This project not only helps patients but also the doctors by properly organizing the appointments. The design is so simple that the user won't find any difficulties while working on it. Globally, health care sector is the pivot and integral part of human lives. Thus, any error committed in the clinical services might leads to defect or termination of life. Recently, information and Communication has been used extensively to improve the various operations and services in the field of the health care service. Patient appointment with the Doctor is one of the clinical services that have been automated. The main idea of this system is to provide ease and comfort to patients while taking appointment from doctors and it also resolves the problems that the patients have to face while making an appointment. This system contains database containing the doctor's details, patient's details and appointment details. Making appointment and scheduling in hospital are used to maintain and manage the access to facility providers in hospital. This system gives the benefit of greater patient care, stern cost control, increase profitability and patient information privacy.

II. RELATED WORK

Robin Jacob [1] As the mobile communication technology is developing rapidly, there is much work in the literature in this regard. An intelligent agent-based appointment system has been proposed in which a scheduling system is provided for patients. Proposed an Android application that is used to remind the patients of their dosage timings through Alarm Ringing system so that they can stay fit and healthy. Searching doctors and hospitals along with navigation details are also available in the app so they can get proper treatment on time. Proposed an android-based appointment management system which uses application programming interfaces (APIs) from Google map and calendar. This appointment-based application can be used with other appointment-based systems. The mobile application accepts appointments by saving the record of the appointment on the phone calendar which is synchronized with the Google calendar. The user gets an alert based on pre-set specified time before the appointment time and date. Proposed a Health Track system that communicates with sensors via smart phone for data collection, and stores data concurrently to the central server for further analysis via the internet. Some online systems that are already functional still have some drawbacks. To overcome these drawbacks an online patient appointment system is proposed using Near Field Communication (NFC) technique and Android enabled mobile application. This system works by registration and scheduling appointments based on NFC that accesses patient's health records and reports to alert nurses and doctors. It uses Representational State Transfer (REST) style for communication interface between reasoning service and the system. Mainly the input contains User's information, disease history, Knowledge base (symptoms) and output of reasoning service. Described an android smart phones and tablets application that is freely downloadable from Google play store and it provides various functionalities including personnel medical records, to trace position of actual user in

real-time. Routing algorithm is used to find minimum distance for destination building. There are other studies which involve handheld healthcare and efficient algorithms for appointment scheduling including self-inspection.

Akinode[2] Globally, health care sector is the pivot and integral part of human lives. Thus, any error committed in the clinical services might leads to defect or termination of life. Recently, information and Communication has been used extensively to improve the various operations and services in the field of the health care service. Patient appointment with the Doctor is one of the clinical services that have been automated. Healthcare providers are motivated to reduce operation cost while improving the quality of service. This has given rise to preventive medicine in order to avoid disease, lessening the demand for emergency department and hospital stays for sick people. The importance of Patient Scheduling cannot be underestimated in the health care delivery landscape. Patient scheduling is a complex process that perform a crucial role in health care. Patient scheduling performs several functions, from allocating resources to patients in need of exams and allocation of surgery rooms to on-demand appointment scheduling with Family Doctors working at Primary Care clinics. A good appointment scheduling system encourages patient and physician satisfaction, and as such, is an important component of healthcare. The efficiency of health care delivery hinged solely on the effectiveness of the Patient scheduling system. it reduces medical error among practitioner and also reduce the number of unsatisfied patients. Appointment systems have been extensively used to reduce patient waiting times and waiting-room congestion. Such systems have the potential to increase access to medical resources while reducing cost, as well as staff and patient dissatisfaction derived from unmet schedule constraints. The main aim of optimal patient scheduling is to determine an appointment technique for which a particular measure of performance is optimized under uncertain conditions .Appointment scheduling system is a system for planning of appointments between resources such as patients, facilities and providers. It is used in order to minimize waiting times, prioritize appointments and optimize the utilization of resources. Angular JS is an extensible and exciting new JavaScript MVC

framework developed by Google for building well-designed, structured and interactive single-page applications (SPA). It lays strong emphasis on Testing and Development best practices such as templating and declarative bi-directional data binding. The framework is used to create rich and interactive SPA's (Single page Architecture). The framework consists of several core and optional libraries.

III. METHODOLOGY

Our proposed system helps to reduce the waiting time of the patient. We can edit and update the appointments. This system also reduces the stress of patients, doctors, and compounders. Our project helps to view whether your appointment booking is done or not, by the logs on the right side of your screen. In this project, we wanted to make something different from other doctor appointment projects. So, we created the project using simple python programming with GUI. It helps the medical field to book doctor appointments.

IV. 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. A doctor booking appointment system that integrates seamlessly with an E.H.R 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. At Genamet we offer this to doctors. In addition to building a digital presence for doctors, we also integrate the appointment booking system which in turn integrates with the E.H.R. Please contact us for a demo.

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