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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: Reception less, Tkinter, pythons3, tkMessageBox, sqlite3, db Browser etc.

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 lead 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. PROBLEM STATEMENT

Our system suggests an actual solution for reception less doctor appointment system through our project 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. After that admin can fix the appointment by saving the data in database. Now after the patient has reached the hospital there is a type of roll call according to the appointments that are stored in database and one by one the doctor and check the patient.

III. MOTIVATION

As a patient we face many difficulties when we want to get an appointment for a doctor in their chambers or places. When people get affected by illness, they need to visit a doctor for check-up but they have to visit their chambers or hospital to get appointment. It is a lengthy process and wasting people's time. Sometimes people do visit doctor's chamber for health check but the doctor is not available some various reason. It's the only way to get to know when people just visited their places. It harasses people a lot. Besides people need an ambulance service to carry on patient to hospitals. Merely, people need to visit hospitals or clinics to hire ambulance, it is a time-consuming process. Our motivation is, if we have an option to get this appointment very easy that can be more precious for us. Then we have planned to implement a Web-based doctor appointment system.

IV. METHODOLOGY

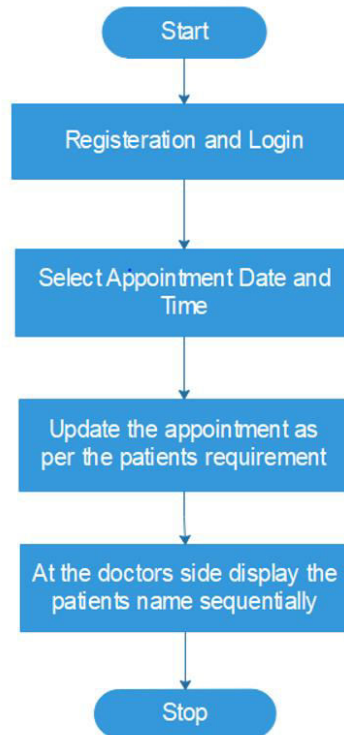


Fig1. Flow Diagram for reception less doctor appointment.

The main focus of system design is to supplement the system architecture, providing information and data useful and necessary for implementation of system elements. it defines the components, modules, interfaces, and data for a system to satisfy specified requirements. This section consists of the various modules, interfaces and data required for the design of a Patient appointment and Scheduling system.

Use Case Diagram

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The purpose of a use case diagram in UML is to demonstrate the different ways that a user might interact with a system. it describes the functional roles of the different actors(users) of a system. Thus, diagram in figure2 depicts the use case diagrams for the various users in the proposed system



Figure 2. Use case diagram for patient

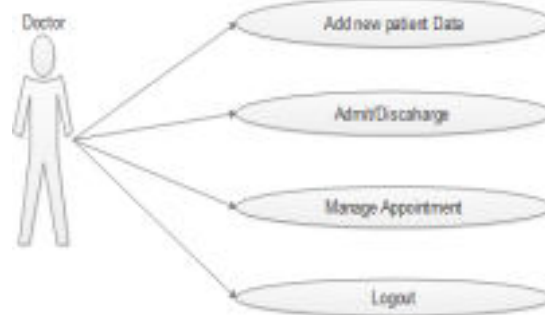


Figure 3. Use case diagram for doctor

Database design

Database is the platform used to store data in most information systems which stores the data. It is regarded as the “heart” of most systems. Database design follows a sequential order. These include the inflow schema, Entity Relationship diagram and Relational data model. The database was designed using SQLITE and MYSQL due to the level of functionalities both database can offer. SQLITE offers a higher level of control over the operations of stored data and structural communication between the backend languages. It also offers expansive control using JSON and PYTHON.

V. RESULT

• UsersSide-



Fig4. User Side

- After running the code this above frame will display with the 2 buttons - Add Appointment & update Appointment.

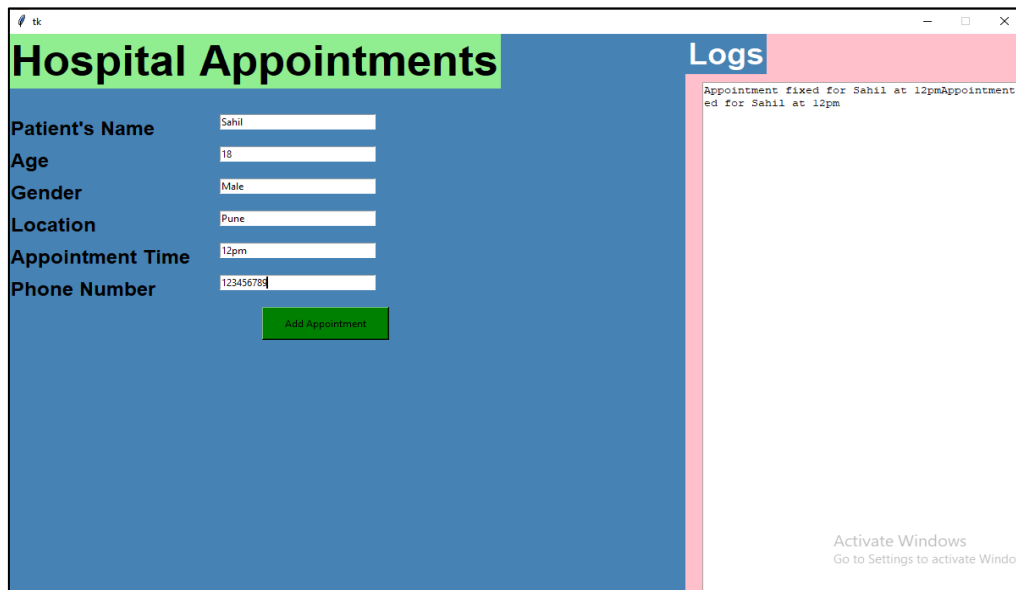


Fig5. After running the code this above frame will display with the 2 buttons - Add Appointment & update Appointment.

- After clicking on the add Appointment and filling up the above details we have to click on the dark green button

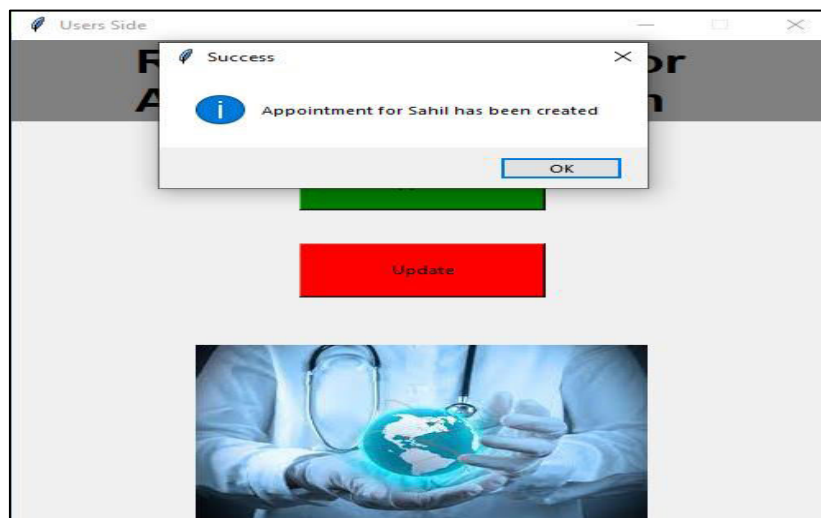


Fig6. After clicking on the add Appointment and filling up the above details we have to click on the dark green button.

- This above success frame will be shown after the user successfully adds the appointment.

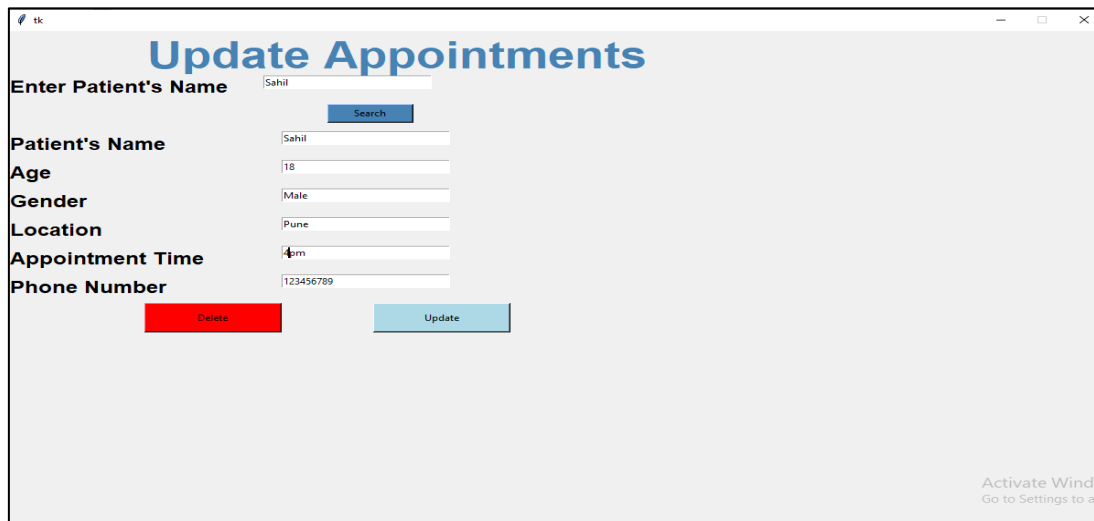


Fig7.This above success frame will be shown after the user successfully adds the appointment.

- If we want to update appointment we have to just enter Patients Name and click on the search button and we will get the details of that user and thus we can update the details of user.

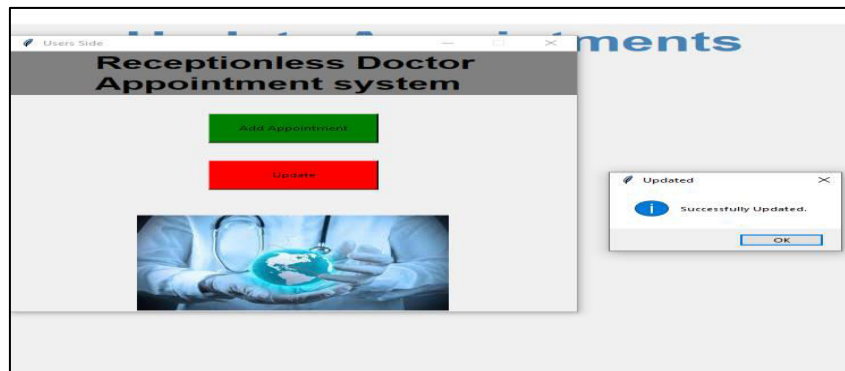


Fig8.If we want to update appointment we have to just enter Patients Name and click on the search button and we will get the details of that user and thus we can update the details of user.

- This above message will be pop-up after we successfully update the message.

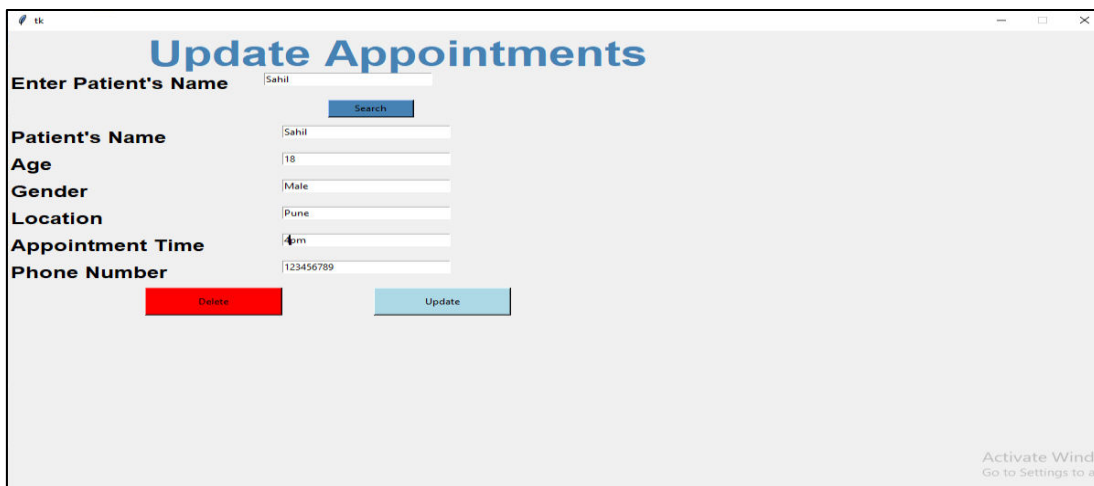


Fig9.This above message will be pop-up after we successfully update the message.

- This above message will be shown after we successful deleted the message.



Fig10.This above message will be shown after we successful deleted the message.

- **Doctorside-**

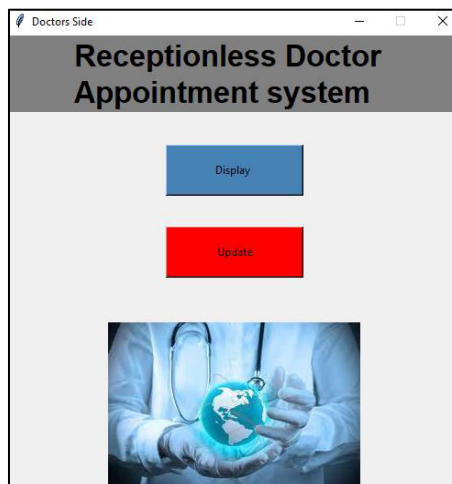


Fig11.Doctorside

- After running the Doctor side code this above frame will display with the 2 buttons - Display Appointment & update Appointment

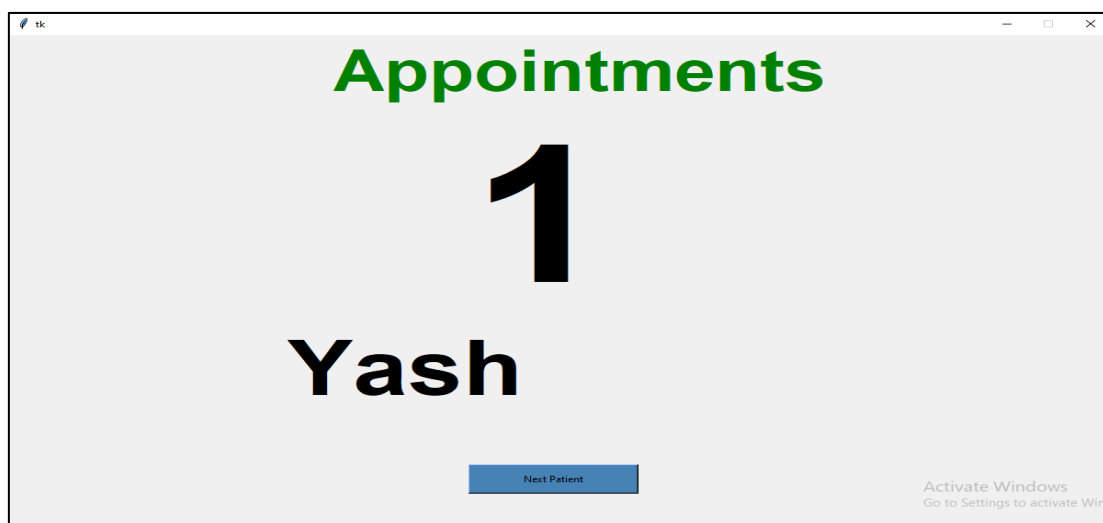


Fig12.After running the Doctor side code this above frame will display with the 2 buttons - Display Appointment & update Appointment



VI. LIBRARIES

- **Python pyttsx3**

pyttsx3 is a text-to-speech conversion library in Python. Unlike alternative libraries, it works offline and is compatible with both Python 2 and 3. An application invokes the `pyttsx3.init()` factory function to get a reference to a `pyttsx3` Engine instance. It is a very easy to use tool which converts the entered text into speech. The `pyttsx3` module supports two voices first is female and the second is male which is provided by “sapi5” for windows. It supports three TTS engines:

- *sapi5* – SAPI5 on Windows
- *nss* – NSSpeechSynthesizer on Mac OS X
- *espeak* – eSpeak on every other platform

- **Python Tkinter**

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

VII. FUTURE SCOPE

The analysis of the results signifies that the integration of multidimensional data along with different classification, feature selection and dimensionality reduction techniques can provide auspicious tools for inference in this domain. This topic will play an important role in the research and the medical advancement that is happening out there in the world; The analysis of the results signifies that the integration of multidimensional data along with different classification, feature selection and dimensionality reduction techniques can provide auspicious tools for inference in this domain. Further research in this field should be carried out for the better performance of the classification techniques so that it can predict on more variables. We are intending how to parameterize our classification techniques hence to achieve high accuracy. We are looking into many datasets and how further Machine Learning algorithms can be used to characterize Breast Cancer. We want to reduce the error rates with maximum accuracy.

VIII. CONCLUSION

Compared to the usual queuing method, the web-based appointment system could significantly increase patient's satisfaction with registration and reduce total waiting time effectively. However, further improvements are needed for broad use of the system. This project also help us learn various method of python and study the importance of a appointment system. Though every task is never said to be perfect in this development field even more improvement may be possible in this system. Therefore, we conclude that, we have successfully implemented this project.

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