CLINIC MANAGEMENT

INTRODUCTION:

This project on Hospital Management System includes registration of patients, employee registration, scheduling an appointment with a doctor and stores the details into the system. The project is GUI Frame Application using tkinter. The layout geometry manager used are pack and place. They arrange widgets on the screen and manage the display of widgets on the screen. The system can be entered using the username and password from the login window. It allocates a room to the patient. The system is connected to a database using the sqlite connection and sqlite queries. This system provides unique id for every patient. It includes search facility to search for a patient record using patient id. The data can be searched, updated and deleted from the database easily. This project is made in mind keeping that it can be handled by a single person handling all the database of the patient.

SOFTWARE USED:

- SqLite3
- PyCharm

CODE:

Step 1: Import required files like tkinter, message box, sqlite3

Step 2: Create a connection with the database.

Step 3: Create Tables using queries and commands and commit it to database.

Step 4: Create a login page by creating login function to take values like username and password.

Step 5: Write command for the login button. If the username and password is invalid it will show a message as “Wrong id /Password, Try again”.

Step 6: After we login we will be taken to a main menu window which has following buttons named as Patient registration, Room allocation, Employee registration, Book appointment.

Step 7: Now the user can go to the desired page from main menu on clicking the required button from menu.

Step 8: Patient Registration form where we have to fill the patients details. We use get( ) method to get the details and then using commands values are inserted into database. It will give message as details inserted into database.

Step 9: The PATDELSU contains code for update, delete and search patient details from database using queries. To search and delete we need to enter patient id by which we will get the patient details or can delete.

Step 10: Room Allocation window- Here labels and buttons and corresponding entry fields are created. List box is created for room type and room number using list box widget of frame.

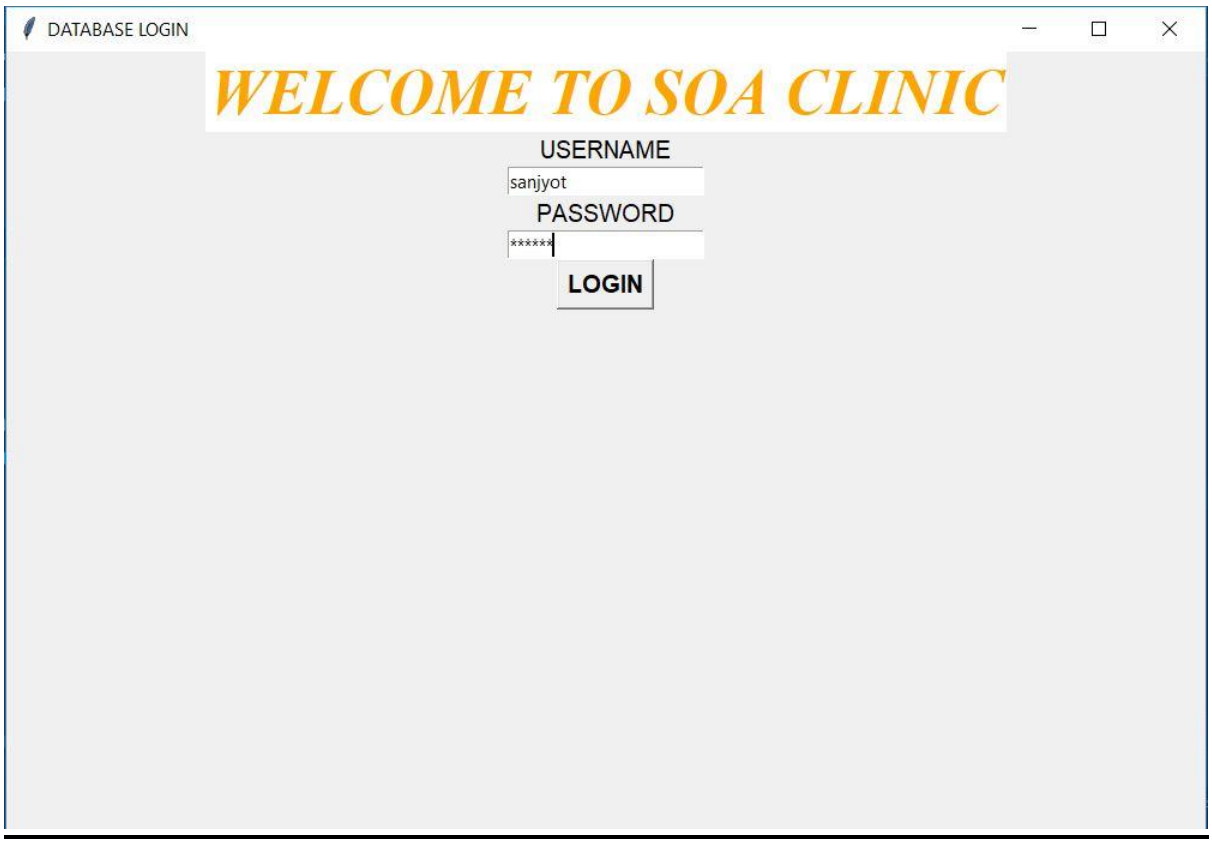
Step 11: The room details are searched using patient id. If that id doesn't exist it will give message box saying "room not allocated". The same is done for the update button.

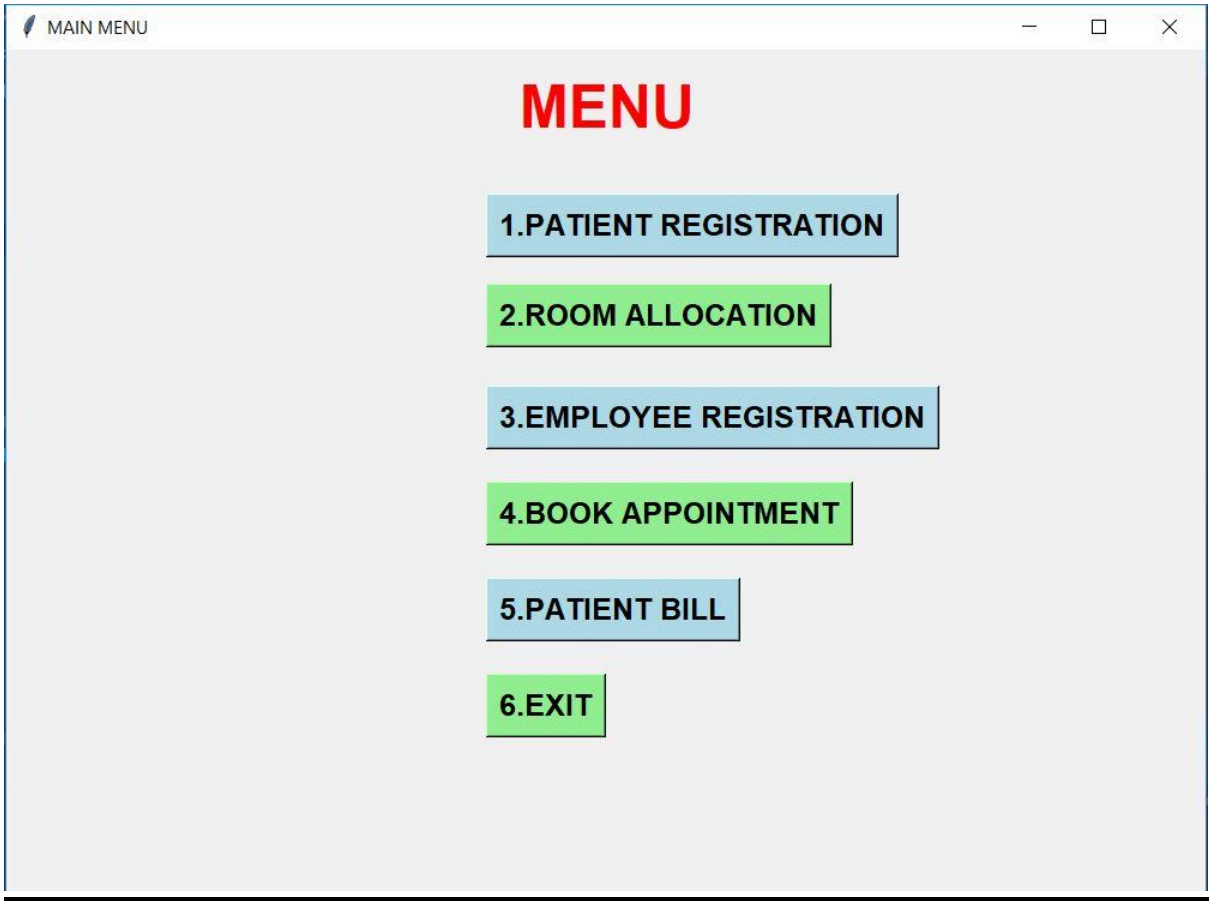
Step 12: Employee Registration contains employee details of doctor and receptionist. The details of employee are saved and deleted whenever needed by using their id. Radio button, scrollbar and list box widgets are used.

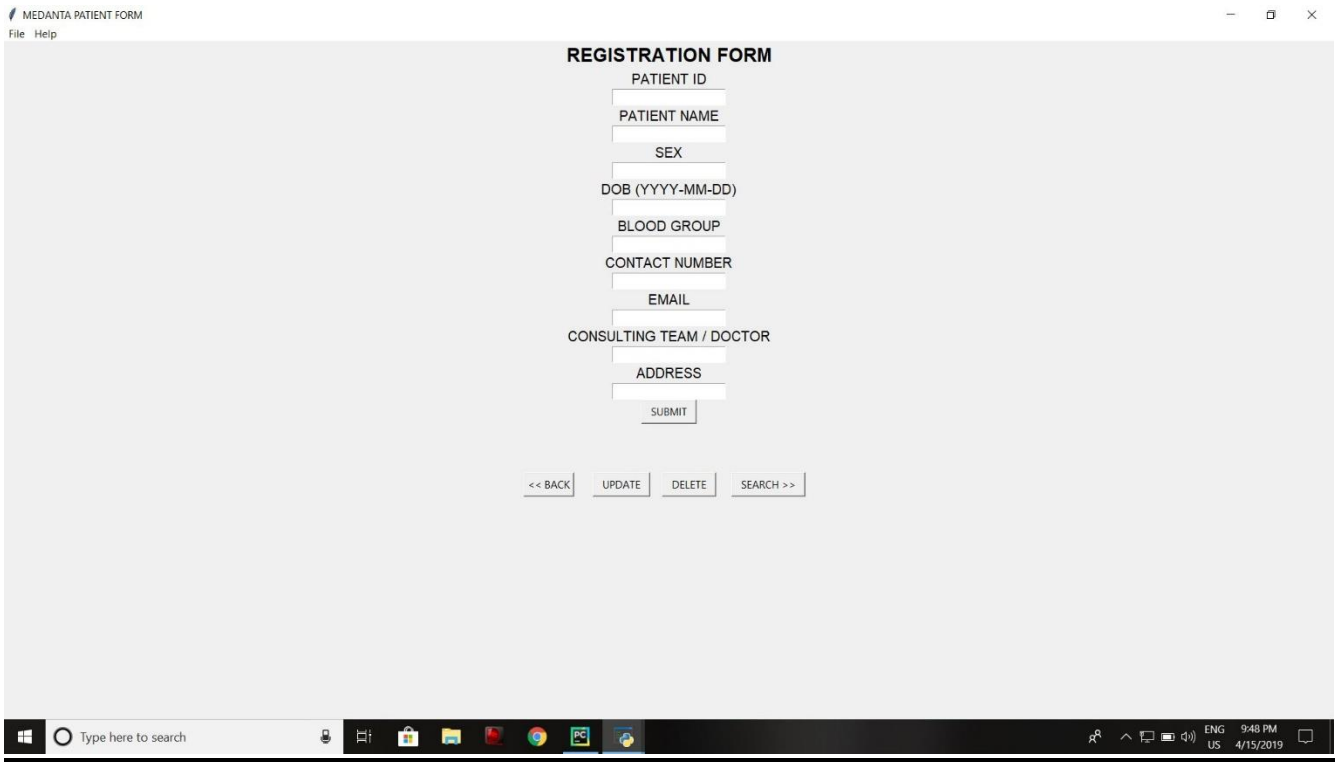
Step 13: The appointment has the details of appointment no, date and time the appointment is scheduled. We can view the appointments by using the date and delete by using the appointment no.

Step 14: The exit button control is transferred to the main menu page.

SNAPSHOTS:



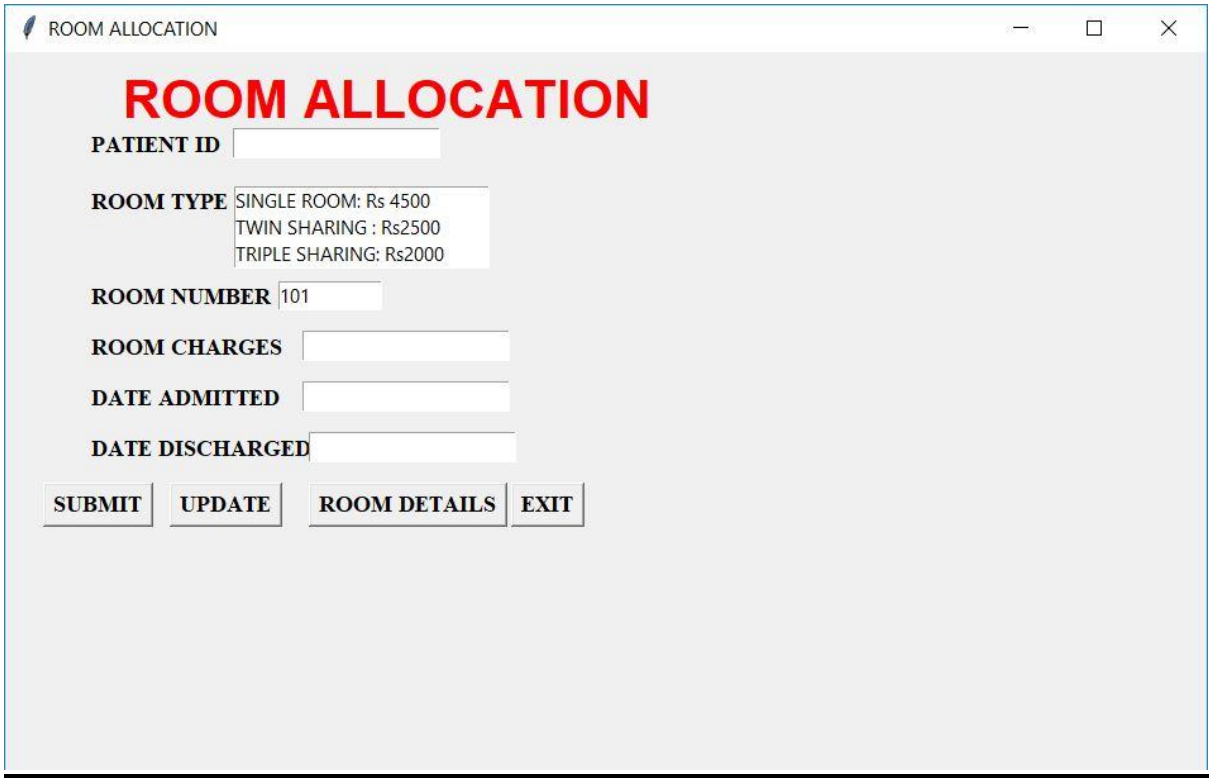

MAIN MENU
MENU
1.PATIENT REGISTRATION
2.ROOM ALLOCATION
3.EMPLOYEE REGISTRATION
4.BOOK APPOINTMENT
5.PATIENT BILL
6.EXIT


MEDANTA PATIENT FORM
File Help
REGISTRATION FORM
PATIENT ID
PATIENT NAME
SEX
DOB (YYYY-MM-DD)
BLOOD GROUP
CONTACT NUMBER
EMAIL
CONSULTING TEAM / DOCTOR
ADDRESS
SUBMIT
<< BACK
UPDATE
DELETE
SEARCH >>
Type here to search
ENG
US
9:48 PM
4/15/2019


SEARCH WINDOW
File
ENTER PATIENT ID TO SEARCH
19
SEARCH
PATIENT ID
19
PATIENT NAME
Rajesh Raut
PATIENT SEX
Male
PATIENT BLOOD GROUP
A+
PATIENT DATE OF BIRTH
1999-12-21
PATIENT ADDRESS
lemon Road virar
PATIENT DOCTOR/TEAM
DR.Raut
PATIENT EMAIL
Rajesh@gamil.com
PATEINT CONTACT NO
7854693212


Employee registration
EMPLOYEE REGISTRATION
EMPLOYEE ID
EMPLOYEE NAME
SEX
MALE
FEMALE
AGE
EMPLOYEE TYPE
DOCTOR
SALARY
EXPERIENCE
MOBILE NO
EMAIL
EXIT
SAVE
DELETE EMPLOYEE
SEARCH


APPOINTMENTS
APPOINTMENTS
PATIENT ID
DOCTOR ID
APPOINTMENT NO
A1
APPOINTMENT TIME(HH:MM)
APPOINTMENT DATE(YYYY-MM-DD)
DESCRIPTION
SET APPOINTMENT
DELETE APPOINTMENT
TODAYS APPOINTMENTS


ROOM ALLOCATION
ROOM ALLOCATION
PATIENT ID
ROOM TYPE
SINGLE ROOM: Rs 4500
TWIN SHARING : Rs2500
TRIPLE SHARING: Rs2000
ROOM NUMBER
101
ROOM CHARGES
DATE ADMITTED
DATE DISCHARGED
SUBMIT
UPDATE
ROOM DETAILS
EXIT

CONCLUSION:

This project includes GUI Programming, creating GUI widgets with tkinter, creating radio buttons, list box, labels, scrollbars and button. Using sqlite3 Database connectivity in python. Performing insertion, deletion and update operations on database. Decision making statements such as if statement and if- elif - else statement and looping statements.

FUTURE SCOPE:

Using this application we can retrieve patient's history in a single click. Thus processing information will be faster. It reduces human effort and increases accuracy. This project is made in mind keeping that it can be handled by a single person handling all the database of the patient

REFERENCES:

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2. James Payne, "Beginning Python: Using Python 2.6 and Python 3.1", Wrox Publication.
3. www.stackoverflow.com
4. www.github.com