A Project Report on

**PHARMACY MANAGEMENT**

**SYSTEM**

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Based on

Python

The pharmacy management system,

is a system that stores data and enables functionality that organizes and maintains the medication use process within pharmacies.

Necessary actions for a basic, functioning pharmacy management system include a user interface, data entry and retention, and security limits to protect patient health information.

The main purpose of this project is to keep record of patients medicines,recovery,payment and their personal details as well as the details of doctors treating them.

Code in Python

**Code for window1:**

from tkinter import\*

import sqlite3

import tkinter.messagebox

from tkinter import ttk

import random

import time;

import datetime

from tkinter import messagebox

fromt kinter.messagebox import showinfo

def main():

root =Tk()

app = Window1(root)

class Window1:

def \_\_init\_\_(self, master):

self.master = master

self.master.title("Hospital Management Systems")

self.master.geometry('1350x750+0+0')

self.frame = Frame(self.master)

self.frame.pack()

self.Username = StringVar()

self.Password = StringVar()

self.LabelTitle =Label(self.frame,text ='Hospital Management System’,font=('arial',50,'bold'),bd=20)

self.LabelTitle.grid(row=0, column=0, columnspan=2,pady=20)

self.Loginframe1 = Frame(self.frame , width=1010, height=300, bd=20, relief='ridge')

self.Loginframe1.grid(row=1, column=0) self.Loginframe2 = Frame(self.frame , width=1000, height=100, bd=20, relief='ridge')

self.Loginframe2.grid(row=2, column=0)

self.Loginframe3 = Frame(self.frame , width=1000, height=200, bd=20, relief='ridge')

self.Loginframe3.grid(row=3, column=0,pady=40)

self.lblUsername =Label(self.Loginframe1,text='Username',font=('arial', 30, 'bold'), bd=22,)

self.lblUsername.grid(row=0, column=0)

self.txtUsername =Entry(self.Loginframe1, text ='Username',font=('arial', 30, 'bold'), bd=22,

textvariable=self.Username)

self.txtUsername.grid(row=0, column=1)

self.lblPassword =Label(self.Loginframe1,text='Password',font=('arial', 30, 'bold'), bd=22,)

self.lblPassword.grid(row=1, column=0)

self.txtPassword =Entry(self.Loginframe1, text ='Password',font=('arial', 30, 'bold'), bd=22, show="\*",

textvariable=self.Password)

self.txtPassword.grid(row=1, column=1, padx=25)

self.btnLogin = Button(self.Loginframe2, text="Login", width=20,font=('arial',20,'bold'),command =self.Login\_System)

self.btnLogin.grid(row = 0 ,column = 0)

self.btnReset = Button(self.Loginframe2,text="Reset", width=20, font=('arial',20,'bold'),command =self.Reset)

self.btnReset.grid(row = 0 ,column = 1)

self.btnExit = Button(self.Loginframe2,text="Exit", width=20, font=('arial',20,'bold',), command =self.iExit)

self.btnExit.grid(row = 0 ,column = 2)

self.btnRegistration = Button(self.Loginframe3, text="Patient Registration ",

state = DISABLED, command =self.Registration\_window, font=('arial',20,'bold'))

self.btnRegistration.grid(row = 0 ,column = 0)

self.btnHospital = Button(self.Loginframe3,text="Pharmacy Management ",

state = DISABLED, command =self.Hospital\_window, font=('arial',20,'bold'))

self.btnHospital.grid(row = 0 ,column =1)

self.btnDoctor = Button(self.Loginframe3,text="Doctor Registration ",

state = DISABLED, command =self.Doctor\_window, font=('arial',20,'bold'))

self.btnDoctor.grid(row = 0 ,column =2)

defLogin\_System(self):

user = (self.Username.get())

pas = (self.Password.get())

if (user ==str(1234)) and (pas ==str(2345)):

self.btnRegistration.config(state = NORMAL)

self.btnHospital.config(state = NORMAL)

self.btnDoctor.config(state = NORMAL)

else:

tkinter.messagebox.askyesno("Pharmacy Management System", "You have entered an invalid login details")

self.btnRegistration.config(state = DISABLED)

self.btnHospital.config(state = DISABLED)

self.Username.set("")

self.Password.set("")

self.txtUsername.focus()

def Reset(self):

self.btnRegistration.config(state = DISABLED)

self.btnHospital.config(state = DISABLED)

self.Username.set("")

self.Password.set("")

self.txtUsername.focus()

defiExit(self):

self.iExit = tkinter.messagebox.askyesno("Pharmacy Management System", "Confirm if you want to exit")

ifself.iExit> 0:

self.master.destroy()

return

defRegistration\_window(self):

self.newWindow = Toplevel(self.master)

self.app = Window2(self.newWindow)

defHospital\_window(self):

self.newWindow = Toplevel(self.master)

self.app = Window3(self.newWindow)

defDoctor\_window(self):

self.newWindow = Toplevel(self.master)

self.app = Window4(self.newWindow)

class Window2:

def \_\_init\_\_(self, master):

self.master = master

self.master.title("Patient Registration System")

self.master.geometry('1350x750+0+0')

self.frame = Frame(self.master)

self.frame.pack()

DateofOrder=StringVar()

DateofOrder.set(time.strftime("%d/%m/%Y"))

var1=StringVar()

var2=StringVar()

var3=StringVar()

var4=IntVar()

Firstname=StringVar()

Surname=StringVar()

Address=StringVar()

Postcode=StringVar()

Telephone=StringVar()

ReferenceNo=StringVar()

Date=StringVar()

Membership = StringVar()

Membership.set("0")

defiExit():

iExit = tkinter.messagebox.askyesno("Patient Registration System", "Confirm if you want to exit")

ifiExit>0:

self.master.destroy()

return

def Reset():

Firstname.set("")

Surname.set("")

Address.set("")

Postcode.set("")

Telephone.set("")

ReferenceNo.set("")

Membership.set("0")

var1.set("")

var2.set("")

var3.set("")

var4.set(0)

self.cboProve\_of\_ID.current(0)

self.cboMethod\_of\_Payment.current(0)

defiResetRecord():

iResetRecord = tkinter.messagebox.askyesno("Patient Registration System", "Confirm if you want to add a new\ record")

ifiResetRecord>0:

Reset()

elifiResetRecord<=0:

Reset()

self.txtReceipt.delete("1.0",END)

return

#defRef\_No():

#x = random.randint(10903, 600873)

#randomRef = str(x)

#Ref.set(randomRef)

def Receipt():

#self.patientlist.insert(END,"\t" + ReferenceNo.get()+ "\t\t" +Firstname.get() + "\t\t" +Surname.get()+"\t\t"+Address.get() +"\t\t" +DateofOrder.get()+"\t\t" +Telephone.get() +"\t\t" +Membership.get() +"\n")

self.patientlist.insert(END,"\t" "reference number="+ ReferenceNo.get()+ "\t""\n")

self.patientlist.insert(END,"\t" "Firstname of patient="+ Firstname.get()+ "\t""\n")

self.patientlist.insert(END,"\t" "Surname of patient="+ Surname.get()+ "\t""\n")

self.patientlist.insert(END,"\t" "Address="+ Address.get()+ "\t""\n")

self.patientlist.insert(END,"\t" "Date of order="+ DateofOrder.get()+ "\t""\n")

self.patientlist.insert(END,"\t" "total payement="+ ReferenceNo.get()+ "\t""\n")

self.patientlist.insert(END,"\t" ".........................................Helth is welth.................................""\t\t""\n")

defMembership\_Fees():

if(var4.get() ==1):

self.txtMembership.configure(state = NORMAL)

Item1 = float(50)

Membership.set("Rs." +str(Item1))

elif(var4.get() ==0):

self.txtMembership.configure(state = DISABLED)

Membership.set("0")

Mainframe=Frame(self.frame)

Mainframe.grid()

TitleFrame=Frame(Mainframe, bd=20, width=1350, padx=26, relief=RIDGE)

TitleFrame.pack(side=TOP)

self.lblTitle=Label(TitleFrame,font=('arial',59,'bold'),text=" Patient Registration System ",padx=2)

self.lblTitle.grid()

MemberDetailsFrame = LabelFrame(Mainframe, width=1350, height=500, bd=20, pady=5, relief=RIDGE)

MemberDetailsFrame.pack(side=BOTTOM)

FrameDetails = LabelFrame(MemberDetailsFrame, bd=10,width=880,height=400,relief=RIDGE)

FrameDetails.pack(side=LEFT)

MembersName\_F = LabelFrame(FrameDetails, bd=10,width=350,height=400,font=('arial',12,'bold'),text ='Patient Name',relief=RIDGE)

MembersName\_F.grid(row=0,column=0)

Receipt\_ButtonFrame= LabelFrame(MemberDetailsFrame, bd=10,width=1000,height=400,relief=RIDGE)

Receipt\_ButtonFrame.pack(side=RIGHT)

self.lblReferenceNo=Label(MembersName\_F,font=('arial',14,'bold'),text=" Reference No ",bd=7)

self.lblReferenceNo.grid(row=0 ,column=0, sticky=W)

self.txtReferenceNo=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7,textvariable=ReferenceNo, insertwidth=2)

self.txtReferenceNo.grid(row=0 ,column=1)

self.lblFirstname=Label(MembersName\_F,font=('arial',14,'bold'),text=" First Name ",bd=7)

self.lblFirstname.grid(row=1, column=0, sticky=W)

self.txtFirstname=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable=Firstname, insertwidth=2)

self.txtFirstname.grid(row=1, column=1)

self.lblSurname=Label(MembersName\_F,font=('arial',14,'bold'),text=" Surname ",bd=7)

self.lblSurname.grid(row=2 ,column=0, sticky=W)

self.txtSurname=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable=Surname, insertwidth=2)

self.txtSurname.grid(row=2 ,column=1)

self.lblAddress=Label(MembersName\_F,font=('arial',14,'bold'),text=" Address ",bd=7)

self.lblAddress.grid(row=3 ,column=0, sticky=W)

self.txtAddress=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable=Address,insertwidth=2)

self.txtAddress.grid(row=3 ,column=1)

self.lblPostcode=Label(MembersName\_F,font=('arial',14,'bold'),text=" Postcode ",bd=7)

self.lblPostcode.grid(row=4 ,column=0, sticky=W)

self.txtPostcode=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable=Postcode,insertwidth=2)

self.txtPostcode.grid(row=4 ,column=1)

self.lblTelephone=Label(MembersName\_F,font=('arial',14,'bold'),text=" Telephone ",bd=7)

self.lblTelephone.grid(row=5 ,column=0, sticky=W)

self.txtTelephone=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable=Telephone,insertwidth=2)

self.txtTelephone.grid(row=5 ,column=1)

self.lblDate=Label(MembersName\_F,font=('arial',14,'bold'),text=" Date ",bd=7)

self.lblDate.grid(row=6 ,column=0, sticky=W)

self.txtDate=Entry(MembersName\_F,font=('arial',14,'bold'), bd=7, textvariable= DateofOrder,insertwidth=2)

self.txtDate.grid(row=6 ,column=1)

self.lblProve\_of\_ID=Label(MembersName\_F,font=('arial',14,'bold'),text=" Prove of ID ",bd=7)

self.lblProve\_of\_ID.grid(row=7 ,column=0, sticky=W)

self.cboProve\_of\_ID=ttk.Combobox(MembersName\_F,textvariable = var1, state='readonly', font=('arial',14,'bold'), width=19)

self.cboProve\_of\_ID['value']=('','Pilot License', 'Driving License','Passport','Student ID')

self.cboProve\_of\_ID.current(0)

self.cboProve\_of\_ID.grid(row=7 ,column=1, sticky=W)

self.lblMethod\_of\_Payment=Label(MembersName\_F,font=('arial',14,'bold'),text=" Method of Payment ",bd=7)

self.lblMethod\_of\_Payment.grid(row=8 ,column=0, sticky=W)

self.cboMethod\_of\_Payment=ttk.Combobox(MembersName\_F,textvariable = var3, state='readonly', font=('arial',14,'bold'), width=19)

self.cboMethod\_of\_Payment['value']=('','Visa card', 'Debit card','Cash')

self.cboMethod\_of\_Payment.current(0)

self.cboMethod\_of\_Payment.grid(row=8 ,column=1, sticky=W)

self.chkMembership = Checkbutton(MembersName\_F, text=" Total Amount ", variable=var4, onvalue = 1,offvalue = 0,font=('arial',16,'bold'), command=Membership\_Fees).grid(row=9, column=0, sticky=W)

self.txtMembership = Entry(MembersName\_F,font=('arial',14,'bold'), textvariable=Membership, bd=7, insertwidth=2, state= DISABLED, justify=RIGHT)

self.txtMembership.grid(row=9,column=1)

self.btnsubmit=Button(MembersName\_F,padx=18,bd=7,font=("arial",14,"bold"),width=11,

text="submit",command=database).grid(row=10,column=1)

#self.lblLabel=Label(Receipt\_ButtonFrame,font=('arial',10,'bold'),pady=10,text=" ReferenceNo\t Firstname\t Surname\t Address\t\t Telephone\t Payment ",bd=7)

#self.lblLabel.grid(row=0 ,column=0, columnspan=4)

self.patientlist = Listbox(Receipt\_ButtonFrame,width=100, height=22, font=('arial',10,'bold'))

self.patientlist.grid(row=1,column=0, columnspan=6)

self.btnReceipt=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" Receipt ", command= Receipt).grid(row =2, column=0)

self.btnReceipt=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" patientdetails", command=view\_data ).grid(row =2, column=1)

self.btnReceipt=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" update ", command= update).grid(row =2, column=2)

self.btnReceipt=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" delete ", command= deletedata).grid(row =2, column=3)

self.btnReset=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" Reset ", command=Reset ).grid(row =2, column=4)

self.btnExit=Button(Receipt\_ButtonFrame,padx=18, bd=7, font=('arial',9,'bold'),width=13, text=" Exit ", command=iExit).grid(row =2, column=5)

code for databse connectivity:-

def database(\*args):

firstname=Firstname.get()

surname=Surname.get()

address=Address.get()

postcode=Postcode.get()

telephone=Telephone.get()

date=DateofOrder.get()

membership=Membership.get()

reference=ReferenceNo.get()

conn=sqlite3.connect("patient.db")

with conn:

cursor=conn.cursor()

cursor.execute("CREATE TABLE IF NOT EXISTS Patient(Firstname TEXT primary key,SurnameTEXT,AddressTEXT,PostcodeINTEGER,TelephoneNUMERIC,Membershiptext,ReferenceNo NUMERIC UNIQUE,DateofOrder DATE)")

cursor.execute("INSERT INTO Patient(Firstname,Surname,Address, Postcode,Telephone,Membership,ReferenceNo,DateofOrder)VALUES(?,?,?,?,?,?,?,?)",(firstname,surname,address,postcode,telephone,membership,reference,date))

conn.commit()

showinfo( title = "Pateint registration", message = "Data inserted To table")

defdisplaydata():

conn=sqlite3.connect("patient.db")

cursor=conn.cursor()

cursor.execute("select \* from Patient")

row=cursor.fetchall()

conn.close()

return row

defview\_data():

#Ref\_no()

for row in displaydata():

self.patientlist.insert(END,"ReferenceNO=",row[6],

"Firstname=",row[0],

"Surname=",row[1] ,

"Address=",row[2],

"Postcode=",row[3],

"Telephone=",row[4],

"Date=",row[7],"",

"Total Payment=",row[5],"\n")

defdeletedata():

reference=ReferenceNo.get()

conn=sqlite3.connect("patient.db")

cursor=conn.cursor()

cursor.execute("DELETE FROM patient WHERE ReferenceNo=?",(reference,))

conn.commit()

showinfo( title = "Pateint registration", message = "Data deleted sucessfully")

conn.close()

def update():

reference=ReferenceNo.get()

firstname=Firstname.get()

surname=Surname.get()

address=Address.get()

postcode=Postcode.get()

telephone=Telephone.get()

date=DateofOrder.get()

membership=Membership.get()

conn=sqlite3.connect("patient.db")

cursor=conn.cursor()

cursor.execute("UPDATE patient SET Firstname=?,Surname=?,Address=?,Postcode=?,Telephone=?,DateofOrder=?,Membership=? WHERE ReferenceNo=?",(firstname,surname,address,postcode,telephone,date,membership,reference))

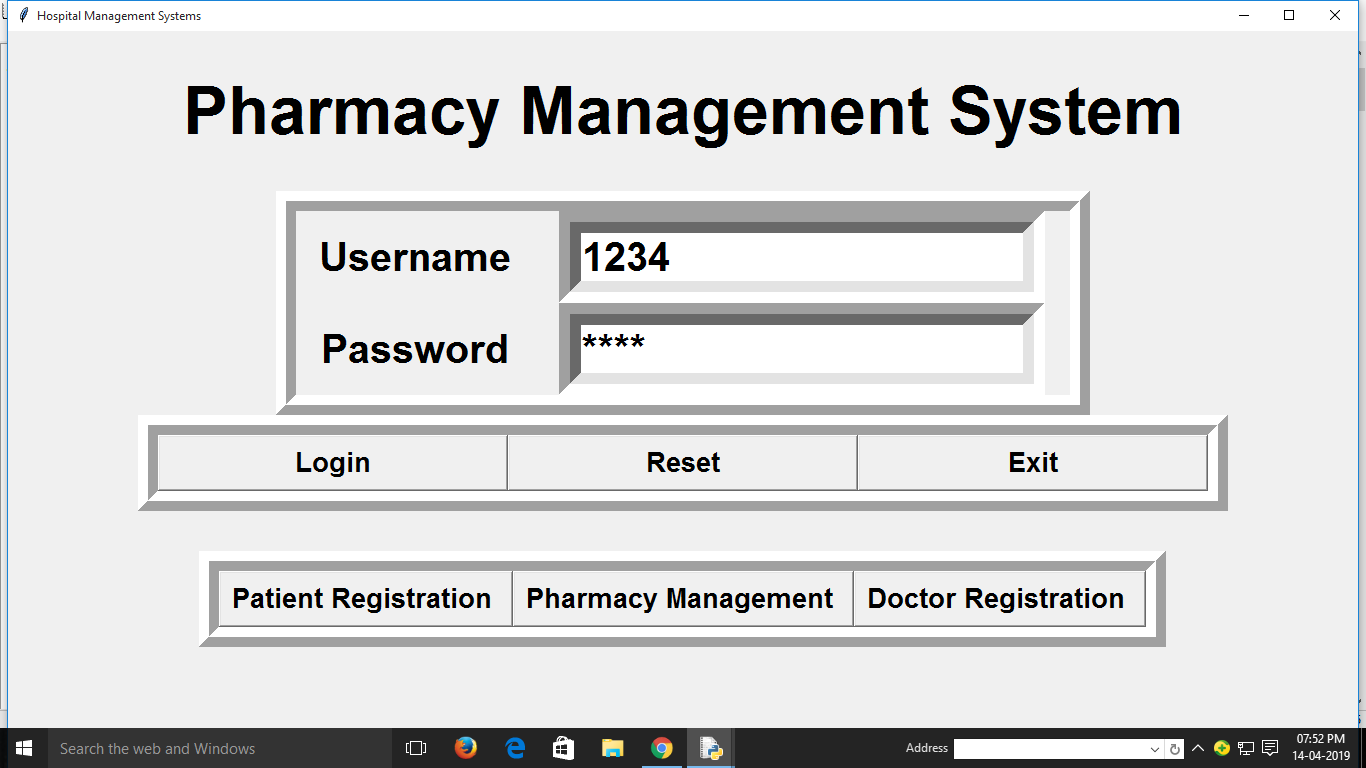
conn.commit()

showinfo( title = "Pateint registration", message = "Data update sucessfully")

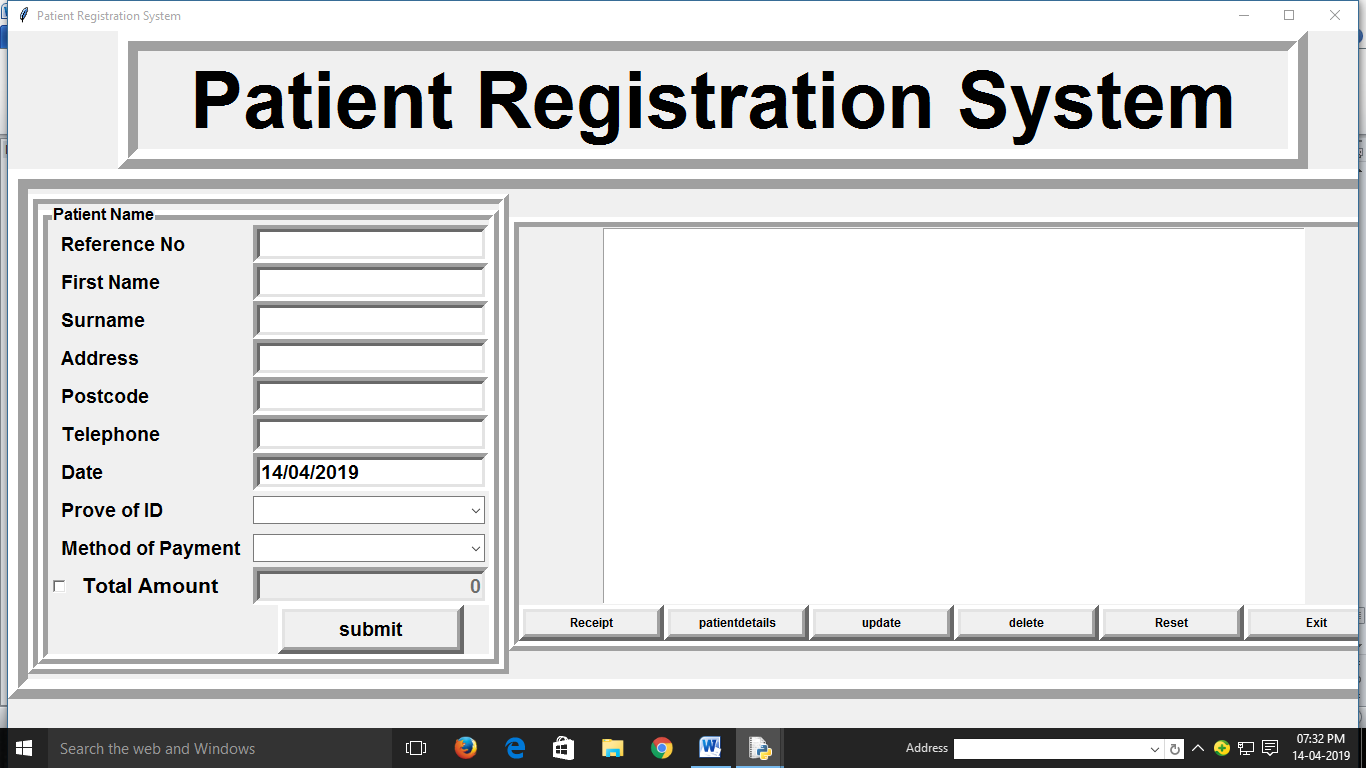
conn.close

**OUPUT:**

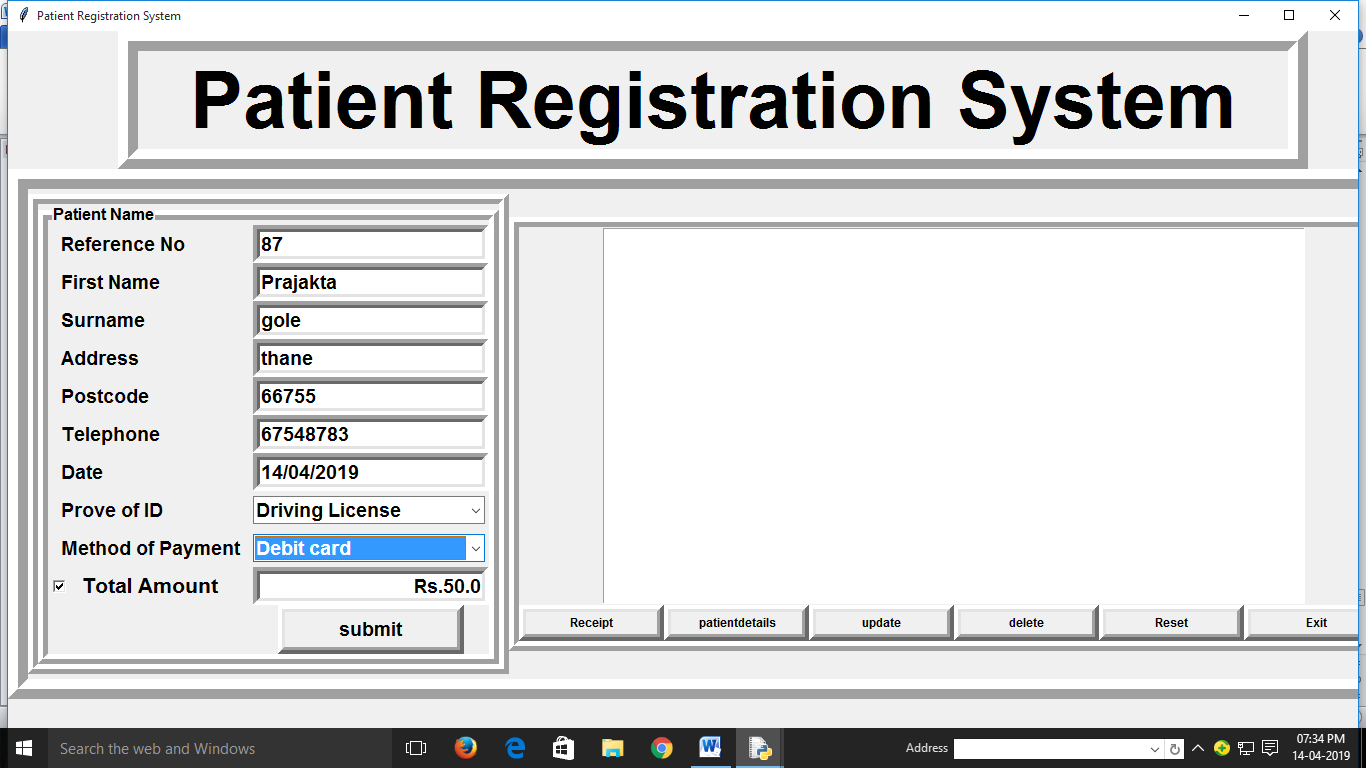
**Window1:-Login page**

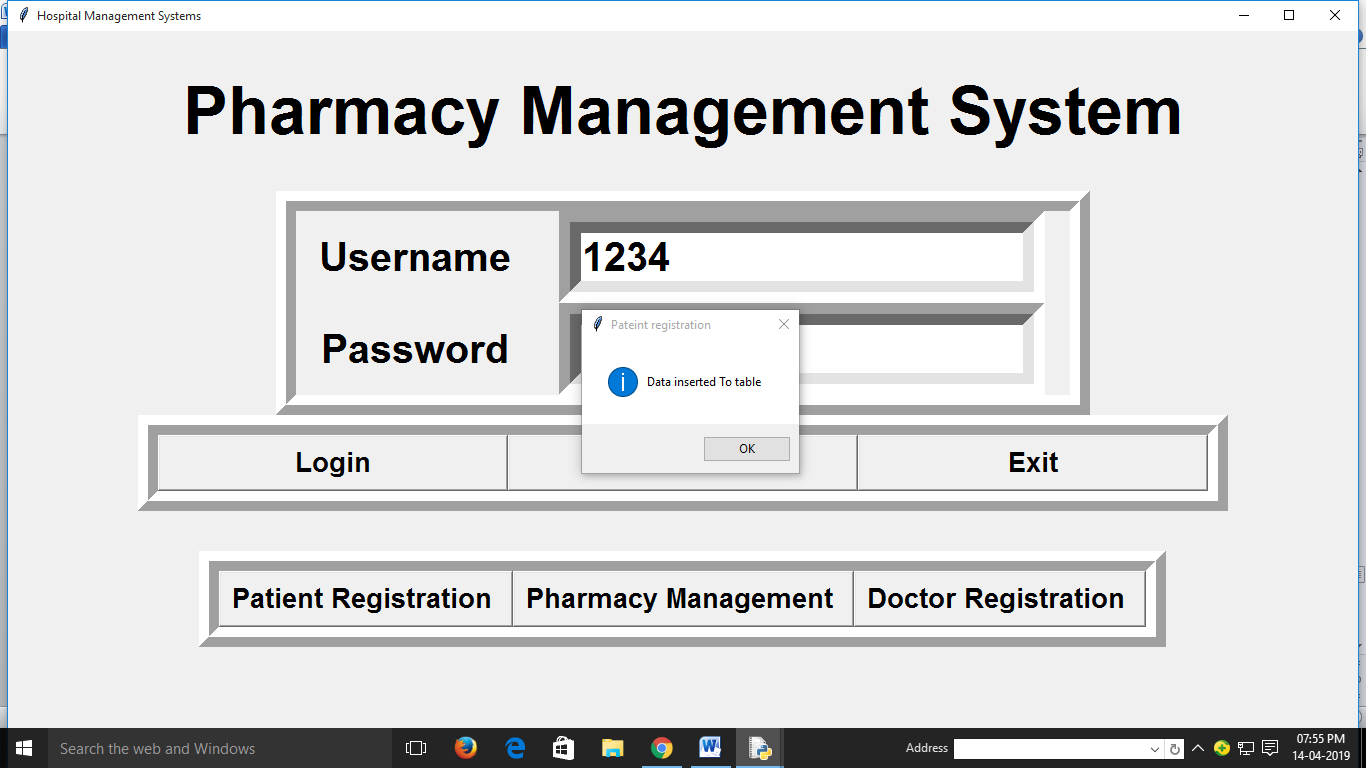
****

**Window2.Patient registration system:-**

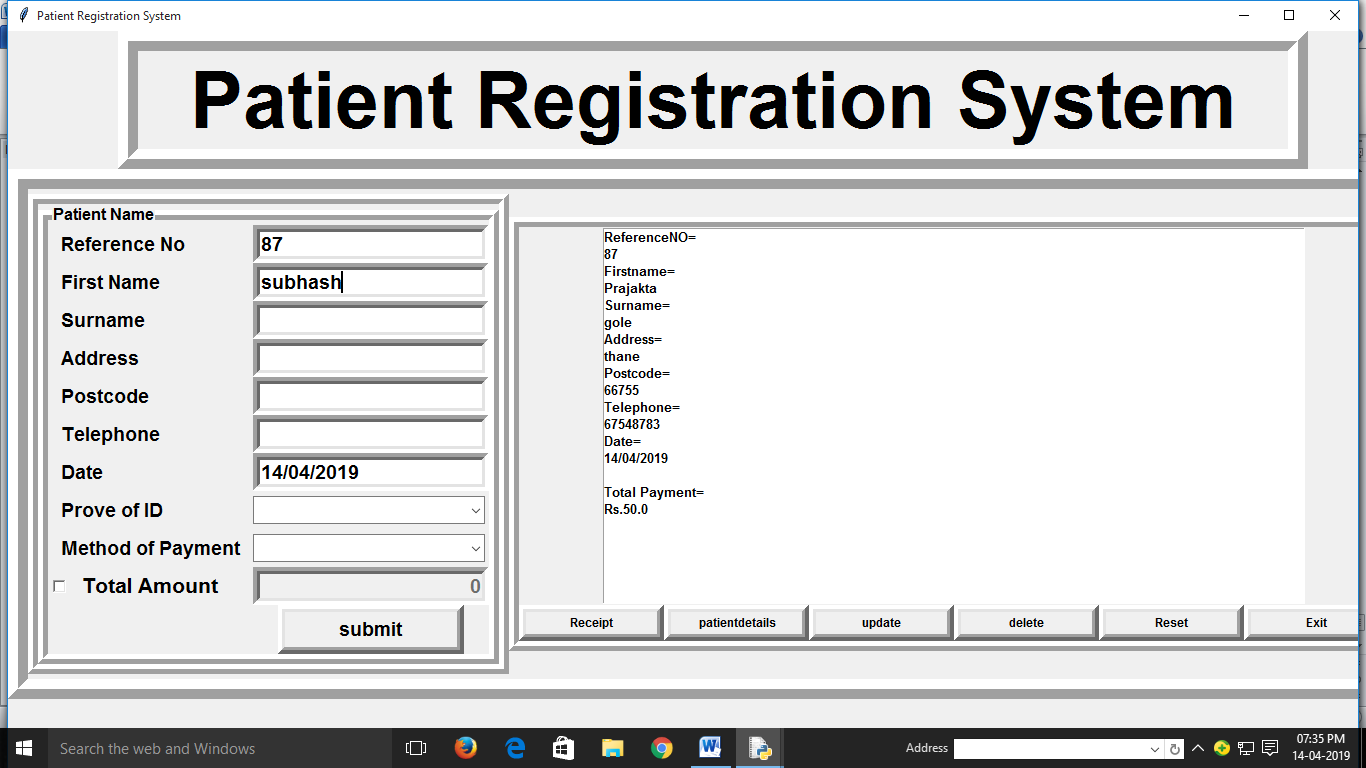


**Create and insert data:**

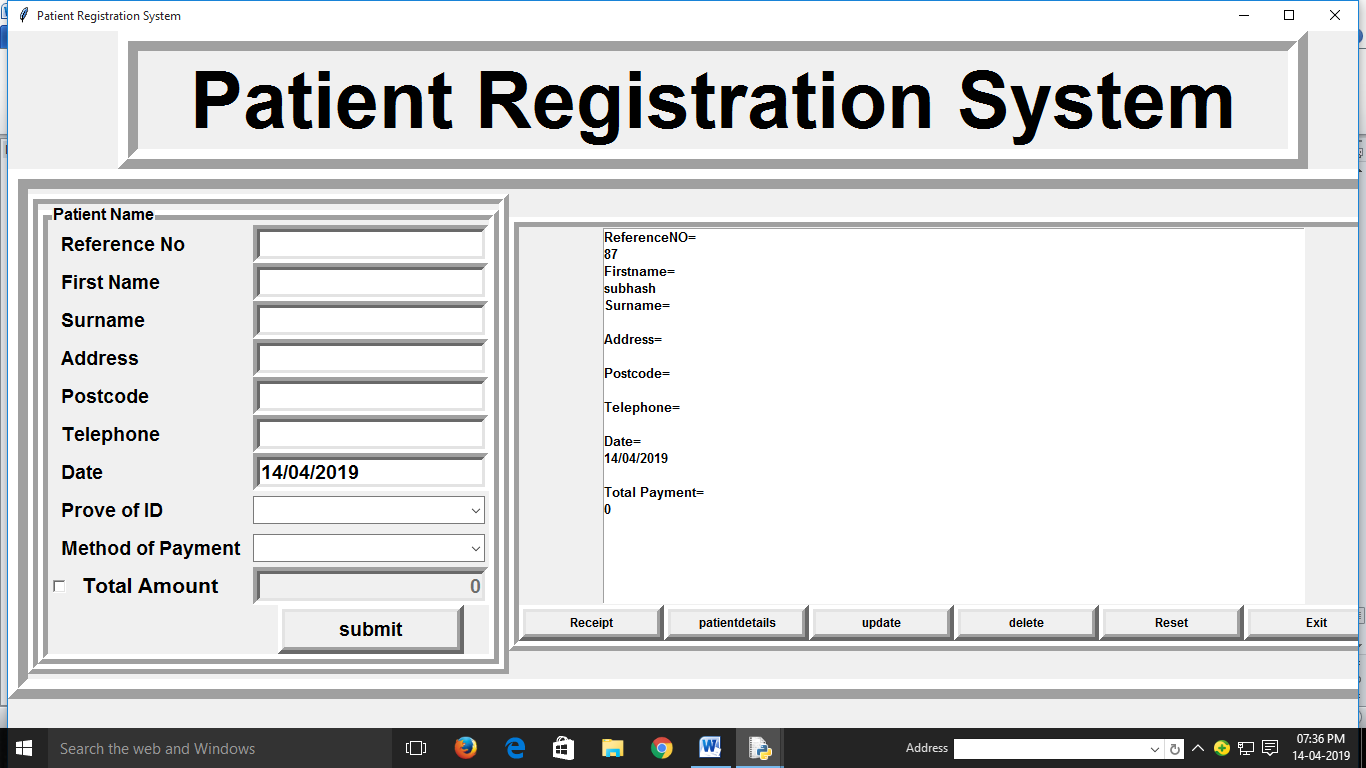




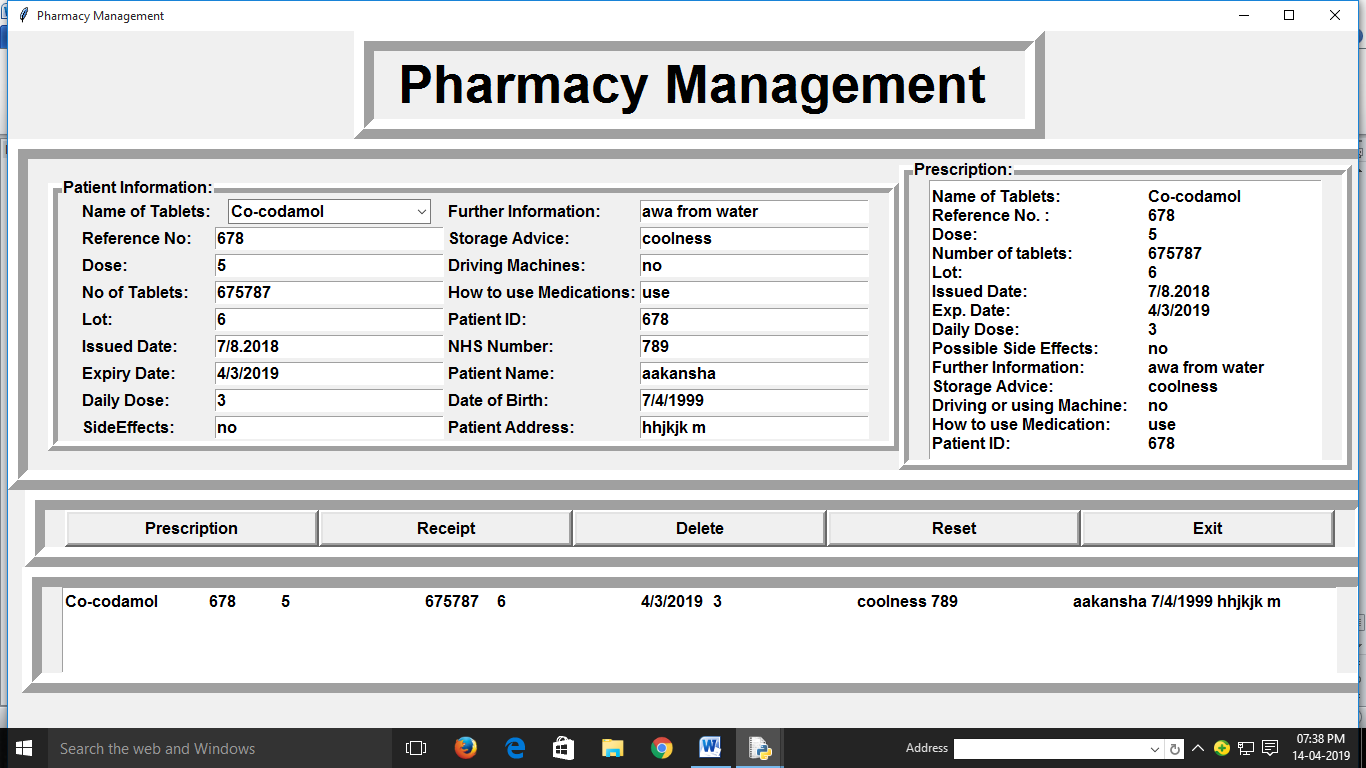
**Update:**



**After updation:**



**Window3:-Pharmacy system:**



**Window4:-Doctor Management sytem:**

