GUI for Health Tracker & Recommender system

END-TERM REPORT

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

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OBJECTIVE:

The primary objective of this project is to implement what we've learnt throughout our course of Python programming and use that to develop a Graphical User Interface (GUI) for Health tracker and & recommender system with almost all required functionalities. This project also aims at providing a simple and clean interface to the users to let them easily book their tickets online which reduces the wastage of time.

INTRODUCTION:

This application basically first register your data and then give you options to choose among bmi(Body mass index), fever, headache, accident, breathing problem.

This system allows you to calculate your bmi asking to input your required data, and also give you options to choose among the rest option where if you choose fever or headache it will directly take you to the google search for doctors near to you and if you choose any of the option between accident or breathing problem you will be get to the search result of hospitals near you.

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.

Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps :

• Import the Tkinter module.

• Create the GUI application main window.

• Add one or more of the above-mentioned widgets to the GUI application.

• Enter the main event loop to take action against each event triggered by the user.

BUTTONS:

The Button widget is used to add buttons in a Python application. These buttons can display text or images that convey the purpose of the buttons. You can attach a function or a method to a button which is called automatically when you click the button.

MESSAGEBOX:

The tkMessageBox module is used to display message boxes in your applications. This module provides a number of functions that you can use to display an appropriate message.

Some of these functions are showinfo, showwarning, showerror, askquestion, askokcancel, askyesno, and askretryignore.

Syntax: Here is the simple syntax to create this widget : tkMessageBox.FunctionName(title, message [, options])

SOURCE CODE:

```python
import tkinter
from tkinter import*



from tkinter import messagebox
import webbrowser

def login():
    f2 = Frame(bg="#091e42")
    f2.place(x=0, y=0, width=1000, height=1000)
```

```python
    u                =                Label(f2,                text="Login
Page",bg="#091e42",fg="white",font=("Arial Bold",20))

    u.place(x=400, y=10)


    u1=Label(f2,text="Enter Name",bg="#091e42",fg="white")

    u1.place(x=350,y=80)

    e1=Entry(f2,font=("",12))

    e1.place(x=450,y=80,width=120)


    u2 = Label(f2, text="Enter Password",bg="#091e42",fg="white")

    u2.place(x=350, y=130)

    e2 = Entry(f2, font=("", 12),show='*')

    e2.place(x=450, y=130, width=120)


    b2=Button(f2,text="<==",command=home)

    b2.place(x=2,y=3)


    b3=Button(f2,text="login")

    b3.place(x=450,y=200,width=80,height=40)

def regis():

    f3 = Frame(bg="#091e42")

    f3.place(x=0, y=0, width=1000, height=1000)
```

```python
u = Label(f3, text="Register Page",bg="#091e42",fg="white",font=("Arial Bold",20))
u.place(x=400, y=10)

u1 = Label(f3, text="Enter Name",bg="#091e42",fg="white")
u1.place(x=350, y=80)
e1 = Entry(f3, font=("", 12))
e1.place(x=450, y=80, width=120)

u2 = Label(f3, text="Enter Email", bg="#091e42", fg="white")
u2.place(x=350, y=130)
e2 = Entry(f3, font=("", 12))
e2.place(x=450, y=130, width=120)

u3 = Label(f3, text="Enter C.Email", bg="#091e42", fg="white")
u3.place(x=350, y=180)
e3 = Entry(f3, font=("", 12))
e3.place(x=450, y=180, width=120)

u4 = Label(f3, text="Enter number", bg="#091e42", fg="white")
u4.place(x=350, y=230)
e4 = Entry(f3, font=("", 12))
e4.place(x=450, y=230, width=120)
```

```python
u5 = Label(f3, text="Enter Password",bg="#091e42",fg="white")
u5.place(x=350, y=280)
e5 = Entry(f3, font=("", 12), show='*')
e5.place(x=450, y=280, width=120)

u6 = Label(f3, text="Enter C.Password",bg="#091e42",fg="white")
u6.place(x=350, y=330)
e6 = Entry(f3, font=("", 12), show='*')
e6.place(x=450, y=330, width=120)

b2 = Button(f3, text="<==", command=home)
b2.place(x=2, y=3)
b3 = Button(f3, text="regis",command=click)
b3.place(x=450, y=400, width=80, height=40)


def click():


    root1 = tkinter.Tk()
    i= IntVar()
```

```python
root1.geometry("1000x1000")

root1.configure(bg="#262626")

f1 = tkinter.Frame(root1, bg="white")

f1.pack(side=TOP, fill="x")


l = tkinter.Label(f1, text="HEALTH TRACKER SYSTEM", font=("Arial Bold", 30))

l.pack()

btn        =        Button(root1,        text="BMI",        width=15,
height=2,command=bmi1)

btn.place(x=400, y=220)

btn1 = tkinter.Button(root, text="FEVER", width=15, height=2,
command=web)

btn1.place(x=400, y=280)

btn2 = tkinter.Button(root, text="HEADACHE", width=15, height=2,
command=web1)

btn2.place(x=400, y=330)

tn3 = tkinter.Button(root, text="BREATHING PROBLEM", width=15,
height=2, command=web2)

btn3.place(x=400, y=380)

btn4 = tkinter.Button(root, text="ACCIDENT", width=15, height=2,
command=web3)

btn4.place(x=400, y=430)
```

```python
def bmi1():


    def web():
        webbrowser.open(


"https://www.google.com/search?rlz=1C1CHBF_enIN913IN913&sxsrf=A
LeKk01r49dliT9DRfAl2TJdfkq1Xq0qxQ%3A1604424561530&ei=cZOhX7
WEIlyQ4-
EPkpmumAg&q=what+to+do+when+you+get+fever&oq=what+to+do+w
hen+you+get+fever&gs_lcp=CgZwc3ktYWIQDFAAWABgg5kDaABwAXgAg
AEAiAEAkgEAmAEAqgEHZ3dzLXdpeg&sclient=psy-
ab&ved=0ahUKEwj1gLyg8-bsAhUMyDgGHZKMC4MQ4dUDCA0")


    def web1():


        webbrowser.open(


"https://www.google.com/search?rlz=1C1CHBF_enIN913IN913&sxsrf=A
LeKk0153uAPoJzmiI5te6QmYHdVR49k7w%3A1604424686691&ei=7pOh
X5jZKZec4-EPhJqO-
Ag&q=what+to+do+when+you+get+headache&oq=what+to+do+when+
you+get+headache&gs_lcp=CgZwc3ktYWIQAzIFCAAQyQMyAggAMgIIADI
GCAAQFhAeMgYIABAWEB4yBggAEBYQHjIGCAAQFhAeMgYIABAWEB4yB
```

ggAEBYQHjIGCAAQFhAeOgQIABBHOgcIIxDJAxAnOgoIABDJAxAUEIcCUP8
EWOAaYPkgaABwAngAgAHyA4gBgRSSAQowLjEwLjIuMC4xmAEAoAEBqg
EHZ3dzLXdpesgBCMABAQ&sclient=psy-ab&ved=0ahUKEwiYiJPc8-
bsAhUXzjgGHQSNA48Q4dUDCA0&uact=5")

```python
    def web2():
        webbrowser.open(
```

"https://www.google.com/search?rlz=1C1CHBF_enIN913IN913&sxsrf=A
LeKk02D8OKjl2rC8X4CYe7fufTHFubV7A:1604424735536&q=hospital+for
+breathing+problems&spell=1&sa=X&ved=2ahUKEwjTq7jz8-
bsAhXpxjgGHUdfCsUQBSgAegQIFRAq&biw=1920&bih=937")

```python
    def web3():
        webbrowser.open(
```

"https://www.google.com/search?rlz=1C1CHBF_enIN913IN913&biw=19
20&bih=937&sxsrf=ALeKk01BXwSp-
mLASdj5B5r3wjrXU3oNhA%3A1604424737410&ei=IZShX-HLGKac4-
EPsqG0iAU&q=hospital+for+accident&oq=hospital+for+accident&gs_lcp
=CgZwc3ktYWIQAzIFCAAQyQMyBggAEBYQHjIGCAAQFhAeMgYIABAWEB
4yBggAEBYQHjIGCAAQFhAeMgYIABAWEB4yBggAEBYQHjIGCAAQFhAeM
gYIABAWEB46BAgAEEc6BAgjECc6AggAOggILhDHARCvAVCPtgFYrsMBYN
3HAWgAcAJ4AIABmQKIAc0MkgEFMC44LjGYAQCgAQGqAQdnd3Mtd2l6y
AEIwAEB&sclient=psy-ab&ved=0ahUKEwih4Kr08-
bsAhUmzjgGHbIQDVEQ4dUDCA0&uact=5")

```python
root = Tk()

universal_font = ('Arial', 20, 'bold')

root.title("BMI Calculator")
root.resizable(False, False)

global weight
global height
weight = IntVar()
height = IntVar()
btn_calculate             =             Button(root,             width=40,
text="Calculate",font=universal_font, bd=6,command=calculate_bmi)
btn_calculate.grid(row=2, columnspan=3, pady=10)

weight_label=Label(root, text="Weight : ", font=universal_font)
weight_label.grid(row=0, column=0)
weight_entry = Entry(root, textvariable=weight, width=40, bd=6,
font=universal_font)
weight_entry.grid(row=0, column=1)
height_label = Label(root, text="Height : ", font=universal_font)
```

```python
    height_label.grid(row=1, column=0)
    height_entry = Entry(root, textvariable=height, width=40, bd=6,
font=universal_font)
    height_entry.grid(row=1, column=1)
def calculate_bmi():

    wght=weight.get()
    hght=height.get()
    bmi=(wght/((hght**2)/1000))  # We'r converting it to metre..
    messagebox.showinfo("Results",f"Your BMI is: {bmi}")

def home():
    global t
    t=Tk()
    t.geometry("1000x1000")
    f1=Frame(bg="#091e42")
    f1.place(x=0,y=0,width=1000,height=1000)
    b1=Button(f1,text="login",command=login)
    b1.place(x=400,y=350,width=80,height=40)
    b2 = Button(f1, text="regis", command=regis)
    b2.place(x=500,y=350,width=80,height=40)

    t.mainloop()
```

home()

CONCLUSION:

It can be observed that computer applications are very important in every field of human endeavor. Here all the information about customer that made reservation can be gotten just by clicking a button with this new system, some of the difficulties encountered with the manual system are overcome. It will also reduce the workload and also increase efficiency.