**Source Code**

**Landing Page**

from Tkinter import \*

from tkMessageBox import \*

from Tkinter import Tk, Frame, BOTH

import os

import sys

class GUI(Frame):

def \_\_init\_\_(self, parent = None):

Frame.\_\_init\_\_(self)

self.pack()

self.master.title("Fit for Life")

self.master.minsize(width=250, height=100)

#instruction text for user

mainframe = Frame(self)

mainframe.pack(ipady=2)

Label(mainframe,text = "Who Are You?").pack()

Button(mainframe,text="Customer", command = UserUserSelection, width=7,height=2).pack(pady=3)

Button(mainframe,text="Staff", command = UserStaffLogin, width=7,height=2).pack(pady=3)

def UserUserSelection():

os.system ("UserGUI.py")

os.\_exit(0)

def UserStaffLogin():

os.system ("StaffLogin.py")

os.\_exit(0)

def main():

root = Tk()

entry = GUI(root)

entry.pack()

root.mainloop()

if \_\_name\_\_ == "\_\_main\_\_":

main()

**UserGUI**

from Tkinter import \*

from Tkinter import Tk, Frame, BOTH

import sys

import os

import time

import random

from random import randint

import tkMessageBox

from tkMessageBox import \*

import Tkinter

class GUI(Frame):

def \_\_init\_\_(self, parent = None):

Frame.\_\_init\_\_ (self)

self.pack()

self.master.title("User GUI")

self.master.minsize(1000,500)

#mainframe

mainframe=Frame(self).pack(fill=BOTH, expand=TRUE, ipadx=5)

#predefined value

global Frame2

TotalCost=0

showBMI=0

ticketnumber=0

now = time.asctime( time.localtime(time.time()) )

Label (mainframe, text="Login since: " + str(now)).pack(anchor=NE, padx=5)

global TotalCost

Button(mainframe, text="Checkout", command = checkout).pack(anchor=SE ,padx=10 , pady=5, side=BOTTOM)

Frame1 = LabelFrame(mainframe)

Frame1.pack(side = LEFT, pady=20, padx=20, fill=BOTH, expand=TRUE)

#bmi

bmiframe = LabelFrame(Frame1, text="BMI")

bmiframe.pack(fill=BOTH, expand=TRUE, padx=10, ipady=3)

global TotalBMI

global weightentry

global heightentry

global showBMI

global ticketnumber

Label(bmiframe, text="Weight (kg): ").pack(side = TOP)

weightentry = Entry(bmiframe, bd=5)

weightentry.pack()

Label(bmiframe, text="Height (m): ").pack(side = TOP)

heightentry = Entry(bmiframe, bd=5)

heightentry.pack()

Button(bmiframe, text="Calculate", command=calcbmi).pack(pady=2)

suggestionframe = LabelFrame(Frame1, text="Suggestion")

suggestionframe.pack(fill=BOTH, expand=TRUE, padx=10,pady=8)

Label(suggestionframe, text="BMI < 18.5\nUnderweight. Please seek advise from doctor.\n").pack()

Label(suggestionframe, text="BMI = 18.5-25\nEctomorph can do more reps at relative intensities than other body types. Longer rest periods between\nsets (3-5 minutes). More frequent workouts. Because they recover faster, the ectomorph needs to work out\nmore than the other body types. Ectomorphs can even get away with 3-4 full-body workouts a week.\nEctomorphs should avoid cardio and pay VERY close attention to their diet.\n").pack()

Label(suggestionframe, text="BMI = 25-30\nA 3-4 day a week split should suffice. Break up the workouts to focus on certain body parts\neach day (ex. Monday-bench, chest,shoulders. Tuesday-squat, quads, hamstrings, glutes. Etc.)\nMix in some cardio (or circuittraining) to keep off any fat. Mesomorphs gain muscle quickly but \nalso have a propensity to gain fat.\n").pack()

Label(suggestionframe, text="BMI > 30\nCompound movements are the base for an endomorph's program. Circuit training is ideal for endomorphs.\nPick 3-5 exercises and go through each one with no rest between exercises. Rest 2 minutes between circuits. \nHIIT is very important to aid in fat loss. Diet is crucial to the endomorph, minimize the carbs and\nchoose fats wisely.").pack()

#right frame

Frame2 = LabelFrame(mainframe)

#membership

membershipframe = LabelFrame(Frame2, text="Membership")

membershipframe.pack(fill=BOTH, expand=TRUE, padx=10)

global var

var = IntVar()

R1 = Radiobutton(membershipframe, text="RM300/30 Days", variable=var, value=1).pack(anchor = W)

R2 = Radiobutton(membershipframe, text="RM550/90 Days", variable=var, value=2).pack(anchor = W)

R3 = Radiobutton(membershipframe, text="RM750/180 Days", variable=var, value=3).pack(anchor = W)

R4 = Radiobutton(membershipframe, text="RM1000/365 Days", variable=var, value=4).pack(anchor = W)

Button(membershipframe, text="Buy This!", command=calcmembership).pack()

Label(Frame2, text="Note: Only press 'Buy Now' button \nonce after confirmed the selection. You can buy multiple memberships and\n nutrient supplements by repeating the same steps.\n").pack(side=BOTTOM, fill=BOTH, ipadx=10)

#nutrient supplement product list

global musclebooster

global vitaminbooster

global proteinbooster

nutrientsupplementframe = LabelFrame(Frame2, text="Nutrient Supplements")

nutrientsupplementframe.pack(expand=TRUE, fill=BOTH, padx=10,pady=8)

Label(nutrientsupplementframe, text="Muscle Booster (RM90/pcs)").pack(pady=5)

musclebooster= Spinbox(nutrientsupplementframe, from\_=0, to=10)

musclebooster.pack()

Label(nutrientsupplementframe, text="Vitamin Booster (RM100/pcs)").pack(pady=5)

vitaminbooster = Spinbox(nutrientsupplementframe, from\_=0, to=10)

vitaminbooster.pack()

Label(nutrientsupplementframe, text="Mineral Booster (RM110/pcs)").pack(pady=5)

proteinbooster = Spinbox(nutrientsupplementframe, from\_=0, to=10)

proteinbooster.pack()

Button(nutrientsupplementframe, text="Buy This!", command=calcnutrient).pack(pady=12)

def calcbmi():

global weightentry

global heightentry

global showBMI

global TotalBMI

global Frame2

GetWeight=weightentry.get()

GetHeight=heightentry.get()

TotalBMI = float(float(GetWeight)/(float(GetHeight)\*float(GetHeight)))

showBMI = Label(text="BMI calc. history:\nYour BMI is: " + str(round(TotalBMI, 1))).pack()

f = open('state.txt','r')

verifyshopstatus = f.readline()

if verifyshopstatus == "Enabled":

Frame2.pack(side = RIGHT, pady=20, padx=20, expand=TRUE, fill=BOTH)

elif verifyshopstatus == "Disabled":

Frame2.pack\_forget()

def calcmembership():

global var

global TotalCost

radiovar = var.get()

if radiovar == 1:

TotalCost = TotalCost + 300

elif radiovar == 2:

TotalCost = TotalCost + 550

elif radiovar == 3:

TotalCost = TotalCost + 750

elif radiovar == 4:

TotalCost = TotalCost + 1000

def calcnutrient():

global musclebooster

global vitaminbooster

global proteinbooster

global TotalCost

muscle = int(musclebooster.get())

vitamin = int(vitaminbooster.get())

protein = int(proteinbooster.get())

TotalCost = TotalCost + (muscle \* 90)

TotalCost = TotalCost + (vitamin \* 100)

TotalCost = TotalCost + (protein \* 110)

print TotalCost

def checkout():

global TotalCost

global ticketnumber

if TotalCost > 0:

ticketnumber=(randint(0,99999))

tkMessageBox.showinfo("Order Confirmed", "Total cost is: RM" + str(TotalCost) + " and your ticket number is: " + str(ticketnumber) + ". Please wait until your ticket number is being called. Thank you.")

os.\_exit(0)

else:

tkMessageBox.showinfo("Shopping cart empty", "See you next time!")

os.\_exit(0)

def main():

root = Tk()

entry = GUI(root)

entry.pack()

root.mainloop()

if \_\_name\_\_ == "\_\_main\_\_":

main()

**Staff Login**

from Tkinter import \*

from tkMessageBox import \*

from Tkinter import Tk, Frame, BOTH

import tkMessageBox

import os

import sys

class GUI(Frame):

def \_\_init\_\_(self, parent = None):

Frame.\_\_init\_\_ (self)

self.pack()

self.master.title("Staff Login")

self.master.minsize(width=200,height=120)

#predefined value

global usernameentry

global passwordentry

global username

global password

global database

database=[ ['staff','1234'],['admin','4321'] ]

#login

self.instructionFrame = Frame(self)

self.instructionFrame.pack()

Label(self.instructionFrame, text="Username: ").pack()

usernameentry = Entry(self.instructionFrame, bd=5)

usernameentry.pack()

Label(self.instructionFrame, text="Password: ").pack()

passwordentry = Entry(self.instructionFrame, bd=5, show="\*")

passwordentry.pack()

Button(self.instructionFrame, text="Login", command = self.loginbutton).pack()

def loginbutton(self):

global usernameentry

global passwordentry

global username

global password

global database

username=usernameentry.get()

password=passwordentry.get()

if [username,password] in database:

os.system ("StaffGUI.py")

while [username,password]not in database:

tkMessageBox.showinfo("Access Denied", "Please try again!").pack()

def main():

root = Tk()

entry = GUI(root)

entry.pack()

root.mainloop()

if \_\_name\_\_ == "\_\_main\_\_":

main()

**Staff GUI**

from Tkinter import \*

from tkMessageBox import \*

from Tkinter import Tk, Frame, BOTH

import os

class GUI(Frame):

def \_\_init\_\_(self, parent = None):

Frame.\_\_init\_\_ (self)

self.pack()

self.master.title("Staff GUI")

self.master.minsize(width=100,height=70)

radioframe = LabelFrame(self, text="Radio").pack(anchor = CENTER, expand = TRUE, fill=BOTH)

global var

var = IntVar()

storestatus = Label(radioframe, text="Store status:").pack(padx=15)

R1 = Radiobutton(radioframe, text="Enable", variable=var, value=1).pack(padx=15, anchor = W)

R2 = Radiobutton(radioframe, text="Disable", variable=var, value=2).pack(padx=15, anchor = W)

Button(radioframe, text="Apply", command=saveshopstatus).pack(padx=15, pady=10)

def saveshopstatus():

global var

shopvar = var.get()

if shopvar == 1:

text = "Enabled"

with open("state.txt", "w") as f:

f.write(text)

os.\_exit(0)

elif shopvar == 2:

text = "Disabled"

with open("state.txt", "w") as f:

f.write(text)

os.\_exit(0)

def main():

root = Tk()

entry = GUI(root)

entry.pack()

root.mainloop()

if \_\_name\_\_ == "\_\_main\_\_":

main()