

Cerdded drwodd

Beth sydd angen lawrlwytho er mwyn cael mynediad at ir rhaglen gweithio

- Angen lawrlwytho python <https://www.python.org/downloads/> , mae python yn dod efo llyfgell tkinter.
- Angen lawrlwytho llyfgell customtkinter mae'r fideo yn yr cod qr isod yn ddangos sut i wneud hyn



- Angen lawrlwytho fy cod yn folder DatblyguMeddalwedd dylai fod dau feil un or enw 'MakeWindowClass.py' ac un or enw 'PrifCod'. Rhedeg yr feil 'PrifCod' angen ir dau feil cael ei arbed yn yr un folder yn ogystal ar cronfeydd data

Data cyfrif derbynydd -

Id - '1',
Enw-defnyddiwr - 'Derbynydd01',
Cyfrinair - 'snXRajw4M^',
EnwCyntaf - 'Holly',
Cyfenw - 'Thomas',
CwestiwnGwireddu - 'Beth oedd enw eich anifail cyntaf ?',
AtebGwireddu - 'Daniel'

Data cyfrif Gyrrwyr -

Id - '1',
Enw-defnyddiwr - 'DonaldNormansell01',
Cyfrinair - "NormansellDonald1111££££",
EnwCyntaf - 'Donald',
Cyfenw - 'Normansell',
Cadarnhau- '1'
CwestiwnGwireddu - 'Beth oedd enw eich hoff film ?',
AtebGwireddu - Yesterday (2019)

Data cyfrif Cwsmer -

Id - '1',
Enw-defnyddiwr - SonnyNormansell01,

Cyfrinair - NormansellSonny0000££££,
EnwCyntaf - Sonny,
Cyfenw - 'Normansell',
Credit- '2'
CwestiwnGwireddu - 'Beth yw enw eich anifail anwes cyntaf ',
AtebGwireddu - 'Gerald'

Fideo yn cerdded trwy yr rhaglen

Er gwybodaeth yn yr fideoau nid yw'r negesyon messagebox yn cael ei arddangos ar gyfer dilysu neu cadarnhau oherwydd fy mod wedi defnyddio meddalwedd 'microsoft clipchamp' er mwyn recordio fy sgrin ac mae ond yn recordio sgrin tkinter ac nid yw'n recordio yr messageboxes oherwydd mae'nt yn agor ffenestr newydd i fynnu ac nid yw'r meddalwedd yn hoffi hyn oherwydd rydw i wedi ei gosod i ond rhannu sgrin tkinter , efallai fod hyn yn twp. Sori am fy ci , mae'n twpsyn.



sganio yr qr code er mwyn gwyllo yr fideo sydd ar fy cyfrif youtube. Mae'r fideo yn egluro sut mae'r system am cael ei defnyddio.

Yr holl cod -

Feil PrifCod -

```
#mewnbynnu yr holl llyfelloedd sy'n hanfodol er mwyn i'r rhaglen gweithredu
from tkinter import *
import tkinter as tk
from tkinter import messagebox
```

```

import customtkinter
import sqlite3
import random
from MakeWindowClass import MakeWindow

#gosod yr holl cronfeydd data sydd angen er mwyn storio yr holl data a
CustomerDataBase=sqlite3.connect("customers.db")
DriverDatabase=sqlite3.connect("drivers.db")
Revisiondatabase = sqlite3.connect("revision.db")
bookingsdatabase = sqlite3.connect("bookings.db")
ReceptionistDataBase = sqlite3.connect("Receptionist.db")
YmholiDataBase = sqlite3.connect("Ymholi.db")

#gosod 'Cursor' er mwyn cael mynediad ac cyflawni gweithrediadau ar yr cronfeydd
CustomerCursor=CustomerDataBase.cursor()
DriverCursor=DriverDatabase.cursor()
RevisionCursor = Revisiondatabase.cursor()
BookingsCursor = bookingsdatabase.cursor()
ReceptionistCursor = ReceptionistDataBase.cursor()
YmholiCursor = YmholiDataBase.cursor()

#creu tabl cwsmeriaid , sy'n cynnwys meysydd isod er mwyn sicrhau lefelau mynediad
CustomerCursor.execute("""CREATE TABLE IF NOT EXISTS CustomersTable(

        CustomerID TEXT PRIMARY KEY,
        Username TEXT,
        Password TEXT,
        Name TEXT,
        Surname TEXT,
        Credit INT,
        CwestiwnGwireddu TEXT,
        AtebGwireddu TEXT

) """)
#creu tabl gyrrwr , sy'n cynnwys meysydd isod
DriverDatabase.execute("""CREATE TABLE IF NOT EXISTS DriversTable(

        DriversID TEXT PRIMARY KEY,
        Username TEXT,
        Password TEXT,
        Name TEXT,
        Surname TEXT,
        Confirmed TEXT,
        CwestiwnGwireddu TEXT,
        AtebGwireddu TEXT

) """)
#creu tabl adolygu , sy'n cynnwys meysydd isod

```

```
RevisionCursor.execute("""CREATE TABLE IF NOT EXISTS RevisionTable(
```

```
    RevisionID TEXT PRIMARY KEY,  
    Question TEXT,  
    CorrectAnswer TEXT,  
    WrongAnswerOne TEXT,  
    WrongAnswerTwo TEXT,  
    WrongAnswerThree TEXT,  
    Catogry TEXT
```

```
) """)
```

```
#creu tabl bwciadau , sy'n cynnwys meysydd isod
```

```
BookingsCursor.execute("""CREATE TABLE IF NOT EXISTS BookingsTable(
```

```
    BookingID TEXT PRIMARY KEY,  
    Date TEXT,  
    TypeOfBooking TEXT,  
    CustomerID INTEGER,  
    DriverID INTEGER,  
    Status TEXT,  
    WediGorffen TEXT
```

```
)""")
```

```
#creu tabl derbynydd , sy'n cynnwys meysydd isod
```

```
ReceptionistCursor.execute("""CREATE TABLE IF NOT EXISTS ReceptionistTable(
```

```
    ReceptionistID TEXT PRIMARY KEY,  
    Username TEXT,  
    Password TEXT,  
    Name TEXT,  
    Surname TEXT,  
    CwestiwnGwireddu TEXT,  
    AtebGwireddu TEXT
```

```
) """)
```

```
#creu tabl ymholi , sy'n cynnwys meysydd isod
```

```
YmholiCursor.execute("""CREATE TABLE IF NOT EXISTS YmholiTable(
```

```
    YmholiadID TEXT PRIMARY KEY,  
    Neges TEXT,  
    CustomerID TEXT,  
    DriverID TEXT,  
    ReceptionistID TEXT,  
    SentFrom TEXT,  
    Status TEXT
```

```
) """)
```

```
#gosod ffurfln customrkitner
```

```
root = customtkinter.CTk()
```

```
#gosod 'apperenece' yr ffurflen i 'dark' er mwyn sicrhau apel cyson ac greddfoll rhwng  
ffurflenni  
root._set_appearance_mode("dark")
```

```
#cymeriadau arbennig , angen ar gyfer dilysu cyfrinair  
special_characters = "!£$,%,^,&*,(,),-_,+,,=,/,+,<,>?,|"
```

```
def AddVerification(userid):  
    global VerificationQuestionPage  
    UserQuestion=VerificationQuestionPage.get_combo_value("Beth yw enw eich hoff film?")  
    UserAnswer=VerificationQuestionPage.get_entry_value("Eich Ateb")  
    if UserAnswer=="":  
        messagebox.showinfo("Gwall", "Rhaid mewnbynnu ateb ir cwestiwn gwireddu")  
    return
```

```
    CustomerCursor.execute("SELECT Name FROM CustomersTable WHERE CustomerID =  
?",(userid,))  
    IsCustomer=CustomerCursor.fetchone()  
    CustomerDataBase.commit()  
    if IsCustomer:  
        CustomerCursor.execute("UPDATE CustomersTable SET CwestiwnGwireddu = ?,  
AtebGwireddu = ? WHERE CustomerID =? ", (UserQuestion,UserAnswer,userid,))  
        messagebox.showinfo("Llwyddiant", "Mae'r cyfrif wedi cael ei creu !")  
        CustomerDataBase.commit()
```

```
    LoginPage()
```

```
    DriverCursor.execute("SELECT Name FROM DriversTable WHERE DriversID =  
?",(userid,))  
    IsDriver=DriverCursor.fetchone()  
    DriverDatabase.commit()  
    if IsDriver:  
        DriverCursor.execute("UPDATE DriversTable SET CwestiwnGwireddu = ?,  
AtebGwireddu = ? WHERE DriversID =? ", (UserQuestion,UserAnswer,userid,))  
        messagebox.showinfo("Llwyddiant", "Mae'r cyfrif wedi cael ei creu !")  
        DriverDatabase.commit()
```

```
    LoginPage()
```

```
def CreateAccountValidation():  
    global CreateAccountWindow  
    global VerificationQuestionPage  
    Valid =True  
    digitCount=0  
    SpecialCharacterCount=0
```

```
Name = CreateAccountWindow.get_entry_value("Name")
Surname = CreateAccountWindow.get_entry_value("Surname")
Username = CreateAccountWindow.get_entry_value("Username")
Password = CreateAccountWindow.get_entry_value("Password")
EntranceLevel = CreateAccountWindow.get_combo_value("Driver")
```

```
#dilysu presenoldeb ar holl meysydd
```

```
if Username=="" or Password=="" or DateOfBirth=="" or Name =="" or Surname =="":
    messagebox.showinfo("Gwall","rhaid llenwi holl meysydd!!!")
    Valid=False
    return
```

```
#dilysu hyd
```

```
elif len (Username)<10:
    messagebox.showinfo("Gwall","Rhaid ir enw defnyddiwr cynnwys o leiaf 10
cymeriad!!!")
```

```
    Valid=False
    return
```

```
elif len(Password)<12:
    messagebox.showinfo("Gwall","Rhaid ir cyfrianir cynnwys o leiaf 12 cymeriad!!!")
    Valid=False
    return
```

```
#dilysu math
```

```
for item in Password:
```

```
    if item.isdigit()==True:
        digitCount+=1
```

```
for item in Password:
```

```
    if item in special_characters:
        SpecialCharacterCount+=1
```

```
if digitCount<3:
```

```
    messagebox.showinfo("Gwall","Rhaid ir cyfinair cynnwys o leiaf tair digid !!!!")
    Valid=False
    return
```

```
elif SpecialCharacterCount<2:
```

```
    messagebox.showinfo("Gwall","Rhaid ir cyfrianir cynnwys o leiaf dau cymeriad
arbennig!!!")
```

```
    Valid=False
    return
```

```
digitCount=0
```

```
SpecialCharacterCount=0
```

```
for item in Name:
```

```
    if item.isdigit()==True:
        digitCount+=1
```

```
for item in Name:
```

```
    if item in special_characters:
        SpecialCharacterCount+=1
```

```

if digitCount>0:
    messagebox.showinfo("Gwall","Ni dylai enw cynnwys digidau")
    Valid=False
    return
elif SpecialCharacterCount>0:
    messagebox.showinfo("Gwall","Ni dylai enw cynnwys cymeriadau arbennig")
    Valid=False
    return
digitCount=0
SpecialCharacterCount=0

```

```

for item in Surname:
    if item.isdigit()==True:
        digitCount+=1
for item in Surname:
    if item in special_characters:
        SpecialCharacterCount+=1

```

```

if digitCount>0:
    messagebox.showinfo("Gwall","Ni dylai cyfenw cynnwys digidau")
    Valid=False
    return
elif SpecialCharacterCount>0:
    messagebox.showinfo("Gwall","Ni dylai cyfenw cynnwys cymeriadau arbennig")
    Valid=False
    return

```

```

if Valid==False:
    CreateAccount()
else:

```

```

    if EntranceLevel =="Customer":
        CustomerCursor.execute("SELECT CustomerID FROM CustomersTable ORDER BY
CustomerID DESC LIMIT 1")
        last_customer_id = CustomerCursor.fetchone()

```

#os oes fwy nag un rhes yn yr tabl cwsmeriaid fydd yr customerid yr cwsmer newydd syn
cael ei creu yn 1 fwy na customerid yr cwsmer fwyaf diweddar

```

    if last_customer_id:
        last_customer_id=last_customer_id[0]
        customerid=int(last_customer_id)+1
    else:
        customerid=1

```

#mewnbynnu holl manylion yr defnyddiwr mewn i tabl cwsmeriaid er mwyn creu cyfrif
'cwsmer' newydd

```
CustomerCursor.execute("INSERT INTO CustomersTable VALUES (?, ?, ?, ?,
?, ?, ?, ?)",
```

```
        (customerid, Username, Password, Name,
        Surname, 0, None, None))
```

```
CustomerDataBase.commit()
```

```
VerificationQuestionPageElements=[["Label", "Ysgol Moduro Normansell", "Century
Gothic", 45, "White"],
```

```
        ["Label", "Dewiswch cwestiwn gwireddu", "Arial", 18, "White"],
```

```
        ["ComboBox", "Beth yw enw eich hoff film?", "Beth yw enw eich
anifail anwes cyntaf ?", "Yn pa dinas cawsoch eich geni ? "],
```

```
        ["Label", "Mewnbynnwch ateb ir cwestiwn
gwireddu", "Arial", 18, "White"],
```

```
        ["EntryBox", "Eich Ateb", 500, 50],
```

```
        ["Button", "Enter", "Monaco", 18, "Green", lambda:
```

```
AddVerification(customerid)]
```

```
    ]
```

```
    for Widget in root.wininfo_children():
```

```
        Widget.destroy()
```

```
    VerificationQuestionPage=MakeWindow(root, "Creu Cwestiwn
gwireddu", VerificationQuestionPageElements)
```

```
elif EntranceLevel == "Driver":
```

```
    DriverCursor.execute("SELECT DriversID FROM DriversTable ORDER BY DriversID
DESC LIMIT 1")
```

```
    last_driver_id = DriverCursor.fetchone()
```

```
#os oes fwy nag un rhes yn yr tabl cwsmeriaid fydd yr customerid yr cwsmer newydd syn
cael ei creu yn 1 fwy na customerid yr cwsmer fwyaf diweddar
```

```
    if last_driver_id:
```

```
        last_driver_id=last_driver_id[0]
```

```
        driverid=int(last_driver_id)+1
```

```
    else:
```

```
        driverid=1
```

```
#mewnbynnu holl manylion yr defnyddiwr mewn i tabl cwsmeriaid er mwyn creu cyfrif
'cwsmer' newydd
```

```
    DriverCursor.execute("INSERT INTO DriversTable VALUES (?, ?, ?, ?, ?, ?, ?, ?)",
```

```
        (driverid, Username, Password, Name,
```

```
        Surname, 0, None, None))
```

```
    DriverDatabase.commit()
```

```
VerificationQuestionPageElements=[["Label", "Ysgol Moduro Normansell", "Century
Gothic", 45, "White"],
```

```
        ["Label", "Dewiswch cwestiwn gwireddu", "Arial", 18, "White"],
```



```

["ComboBox","Beth yw enw eich hoff film?","Beth yw enw eich
anifail anwes cyntaf ?","Yn pa dinas cawsoch eich geni ? "],
["Label","Mewnbynnwch ateb ir cwestiwn
gwireddu","Arial",18,"White"],
["EntryBox","Eich Ateb",500,50],
["Button","Enter","Monaco",18,"Green",lambda:
AddVerification(driverid)]
]
for Widget in root.winfo_children():
    Widget.destroy()
VerificationQuestionPage=MakeWindow(root,"Creu Cwestiwn
gwireddu",VerificationQuestionPageElements)

```

```

def CreateAccount():
    global CreateAccountWindow
    for widget in root.winfo_children():
        widget.destroy()

```

```

CreateAccountElements = [{"Label", "Creu Cyfrif", "Century Gothic", 24, "white"},
    ["Label","Mewnbynnu manylion yr cyfrif i creu","Arial",12,"White"],
    ["EntryBox","Name",200,30],
    ["Button","Clear","Monaco",12,"#DF5836",lambda: clear("Username")],
    ["EntryBox","Surname",200,30],
    ["Button","Clear","Monaco",12,"#DF5836",lambda: clear("Username")],
    ["EntryBox","Username",200,30],
    ["Button","Clear","Monaco",12,"#DF5836",lambda: clear("Username")],
    ["EntryBox","Password",200,30],
    ["Label","Choose your status using the drop down box
below","Arial",16,"White"],
    ["Button","Clear","Monaco",12,"#DF5836",lambda: clear("00/00/0000")],
    ["ComboBox", "Driver", "Customer", "Receptionist"],
    ["Button","Enter","Monaco",12,"green",lambda: CreateAccountValidation()],
    ["Button","Catref","Monaco",12,"Red",lambda: LoginPage()]
]

```

```

CreateAccountWindow = MakeWindow(root,"Create Account",CreateAccountElements)

```

```

def RevisionQuestions(userid,Lefelmyndiad,NiferCwestiynnau,CatogriCwestiynnau):

```

```

    if NiferCwestiynnau=="":
        messagebox.showinfo("Adolygu","Rhaid dewis Menwbwn ar gyfer nifer o cwestiynnau")
        CatogriAndQuestionSelectorForRevision(userid,Lefelmyndiad)
    return

```

```

elif CatogriCwestiynnau=="":
    messagebox.showinfo("Adolygu","Rhaid dewis mewnbwn ar gyfer catogri")
    CatogriAndQuestionSelectorForRevision(userid,Lefelmynediad)
    return

if NiferCwestiynnau != "10" and NiferCwestiynnau != "20" and NiferCwestiynnau != "30"
and NiferCwestiynnau != "40":
    messagebox.showinfo("Gwall","Rhaid ir nifer o cwestiynnau fod yn 10,20,30 neu 40 !")
    return
if CatogriCwestiynnau != "Alertness" and CatogriCwestiynnau != "Attitude" and
CatogriCwestiynnau != "Hazard awarness" and CatogriCwestiynnau != "Motorway rules":
    messagebox.showinfo("Gwall","Rhaid ir catogri fod yn Alertness, Attitude,Hazard
awarness neu motorway rules")
    return

RevisionCursor.execute("SELECT Question FROM RevisionTable WHERE Catogry =
?",(CatogriCwestiynnau,)) # selects questions from catogry that user inputted into variable
catogytorevise
SelectedQuestions=RevisionCursor.fetchall()
Revisiondatabase.commit()
global counter
counter=1
#score yn cynyddu gan 1 os ywr defnyddiwr yn cael ateb gywir , dim yn cynyddu os nad
yw'r defnyddiwr yn cael ateb yn gywir
global score
score=0

for Widget in root.winfo_children():
    Widget.destroy()

def Dewis(Ateb):
    global score
    print(Ateb)
    try:
        if int(Ateb)-1 == CorrectIndex:
            score += 1
    except ValueError:
        pass
    if score != NiferCwestiynnau:
        scoreLabel.configure(text=f"Eich scor {score} / {counter-1}")
        # Check if DewisEntry exists and is not None before attempting deletion
        if DewisEntry is not None:
            DewisEntry.delete(0, END)
    Cwestiwn(userid, Lefelmynediad)

def DiweddCwestiynnau(score,NiferCwestiynnau,userid,LefeMynediad):

```

```

for Widget in root.winfo_children():
    Widget.destroy()
root.title("Diwedd cwestiynnau adolygu")

frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)

customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century
Gothic",45),text_color="White").pack()
customtkinter.CTkLabel(frame,text="Eich
sgor",font=("Roboto",36),text_color="White").pack()

customtkinter.CTkLabel(frame,text=f"{score} /
{NiferCwestiynnau}",font=("Roboto",24),text_color="Blue").pack()

print(f"IRNOR {NiferCwestiynnau} NIFEERCWESESIYNNAU")
print()
print(f"SCORIOANI {score}")

if int(NiferCwestiynnau)==10:
    if score>=8:
        customtkinter.CTkLabel(frame,text="Rydych wedi
pasio",font=("Roboto",24),text_color="Green").pack()
    else:
        customtkinter.CTkLabel(frame,text="Nid ydych wedi
pasio",font=("Roboto",24),text_color="Red").pack()
    elif NiferCwestiynnau==20:
        if score>=8:
            customtkinter.CTkLabel(frame,text="Rydych wedi
pasio",font=("Roboto",24),text_color="Green").pack()
        else:
            customtkinter.CTkLabel(frame,text="Nid ydych wedi
pasio",font=("Roboto",24),text_color="Red").pack()
    elif NiferCwestiynnau==30:
        if score>=8:
            customtkinter.CTkLabel(frame,text="Rydych wedi
pasio",font=("Roboto",24),text_color="Green").pack()
        else:
            customtkinter.CTkLabel(frame,text="Nid ydych wedi
pasio",font=("Roboto",24),text_color="Red").pack()

if Lefelmynediad=="Cwsmer":

BotwmCatref=customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Gr
een",command=lambda: CustomerHomePage(userid))
    BotwmCatref.pack()
    elif Lefelmynediad=="Gyrrwr":

```

```

BotwmCatref=customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Green",command=lambda: DriversHomePage(userid))
    BotwmCatref.pack()
    BotwmCatrefAdolygu=customtkinter.CTkButton(frame,text="Adolygu
eto",font=("Monaco",18),fg_color="Red",command=lambda:
CatogriAndQuestionSelectorForRevision(userid,LefelMynediad))
    BotwmCatrefAdolygu.pack()

def Cwestiwn(userid, LefelMynediad):
    global counter
    if int(counter) < int(NiferCwestiynnau):
        randoms = random.randint(0, len(SelectedQuestions) - 1) # Adjusted range
        question = SelectedQuestions[randoms][0]
        print()
        CwestiwnLabel.configure(text=f"{counter} {question}")
        print()
        counter += 1
        RevisionCursor.execute("SELECT CorrectAnswer, WrongAnswerOne,
WrongAnswerTwo, WrongAnswerThree FROM RevisionTable WHERE Question = ?",
(question,))
        Answers = RevisionCursor.fetchall()

        CorrectAnswer = Answers[0][0]
        WrongAnswers = [Answers[0][1], Answers[0][2], Answers[0][3]]

        AnswerList = [CorrectAnswer] + WrongAnswers
        random.shuffle(AnswerList)

        global CorrectIndex
        CorrectIndex = AnswerList.index(CorrectAnswer)

    # Print options and get user's answer
    for j in range(len(AnswerList)):
        AnswerLabels[j].configure(text=f"{j+1}. {AnswerList[j]}")
    else:
        DiweddCwestiynnau(score, NiferCwestiynnau, userid, LefelMynediad)

root.title("Cwestiynnau Adolygu")
root.geometry("1000x750")

frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)

customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century
Gothic",24),text_color="White").pack()

```

```
customtkinter.CTkLabel(frame,text="Adolygu  
Theori",font=("Roboto",24),text_color="White").pack()
```

```
global scoreLabel  
scoreLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
scoreLabel.pack(pady=25)
```

```
customtkinter.CTkLabel(frame,text="Cwestiwn :  
",font=("Arial",18),text_color="White").pack()
```

```
CwestiwnLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
CwestiwnLabel.pack(pady=25)
```

```
customtkinter.CTkLabel(frame,text="Atebion :",font=("Arial",18),text_color="White").pack()
```

```
AtebCywirLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
AtebCywirLabel.pack(pady=15)
```

```
AtebAnghywir1Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
AtebAnghywir1Label.pack(pady=15)
```

```
AtebAnghywir2Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
AtebAnghywir2Label.pack(pady=15)
```

```
AtebAnghywir3Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")  
AtebAnghywir3Label.pack(pady=15)
```

```
customtkinter.CTkLabel(frame,text="Mewnbynnwch ateb",font=("Arial",18)).pack()
```

```
DewisEntry = customtkinter.CTkEntry(frame, placeholder_text="",width=200,height=20)  
DewisEntry.pack(pady=15)
```

```
CadarnhauButton = customtkinter.CTkButton(frame, text="Cadarnhau", font=("Monaco",  
18), fg_color="Green",  
command=lambda: Dewis(DewisEntry.get()))  
CadarnhauButton.pack()
```

```
root.bind('<Return>', lambda event: CadarnhauButton.invoke())
```

```
AnswerLabels=[AtebCywirLabel,AtebAnghywir1Label,AtebAnghywir2Label,AtebAnghywir3Label]
```

```
Cwestiwn(userid,LefelMynediad)
```

```
def ffugPrawf(userid,LefelMynediad):
```

```
    for Widget in root.winfo_children():  
        Widget.destroy()
```

```
    RevisionCursor.execute("SELECT Question FROM RevisionTable") # selects questions  
    from catogry that user inputted into variable catogrytorevise
```

```
    SelectedQuestions=RevisionCursor.fetchall()
```

```
    Revisiondatabase.commit()
```

```
    global counter
```

```
    counter=1
```

```
    #score yn cynyddu gan 1 os ywr defnyddiwr yn cael ateb gywir , dim yn cynyddu os nad  
    yw'r defnyddiwr yn cael ateb yn gywir
```

```
    global score
```

```
    score=0
```

```
def DewisFfugPrawf(Ateb):
```

```
    global score
```

```
    global scoreLabel
```

```
    print(Ateb)
```

```
    if int(Ateb)-1 == CorrectIndex:
```

```
        score+=1
```

```
    scoreLabel.configure(text=f"Eich scor {score} / {counter}")
```

```
    CwestiwnFfugPrawf(userid,LefelMynediad)
```

```
def DiweddCwestiynnauFfugPrawf(score,NiferCwestiynnau,userid,LefelMynediad):
```

```
    for Widget in root.winfo_children():
```

```
        Widget.destroy()
```

```
    root.title("Diwedd ffug prawf ")
```

```
    frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
```

```
    frame.pack(fill="both", expand=True, padx=20, pady=20)
```

```
    customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century  
Gothic",45),text_color="White").pack()
```

```
    customtkinter.CTkLabel(frame,text="Eich  
sgor",font=("Roboto",36),text_color="White").pack()
```

```
    customtkinter.CTkLabel(frame,text=f"{score} /  
50",font=("Roboto",24),text_color="Blue").pack()
```

```

if score >= 55:
    customtkinter.CTkLabel(frame, text="Rydych wedi
pasio", font=("Roboto", 24), text_color="Green").pack()
else:
    customtkinter.CTkLabel(frame, text="Nid ydych wedi
pasio", font=("Roboto", 24), text_color="Red").pack()

if LefelMynediad == "Cwsmer":

BotwmCatref = customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Gr
een", command=lambda: CustomerHomePage(userid))
    BotwmCatref.pack()
elif LefelMynediad == "Gyrrwr":

BotwmCatref = customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Gr
een", command=lambda: DriversHomePage(userid))
    BotwmCatref.pack()
    BotwmCatrefAdolygu = customtkinter.CTkButton(frame, text="Adolygu
eto", font=("Monaco", 18), fg_color="Red", command=lambda:
CatogriAndQuestionSelectorForRevision(userid, LefelMynediad))
    BotwmCatrefAdolygu.pack()

def CwestiwnFfugPrawf(userid, LefelMynediad):
    global counter
    if int(counter) < 50:
        randoms = random.randint(1, len(SelectedQuestions) - 1)
        question = SelectedQuestions[randoms][0]
        print()
        CwestiwnLabel.configure(text=f"{counter} {question}")
        print()
        counter += 1
        RevisionCursor.execute("SELECT CorrectAnswer, WrongAnswerOne,
WrongAnswerTwo, WrongAnswerThree FROM RevisionTable WHERE Question = ?",
(question,))
        Answers = RevisionCursor.fetchall()

        CorrectAnswer = Answers[0][0]
        WrongAnswers = [Answers[0][1], Answers[0][2], Answers[0][3]]

        AnswerList = [CorrectAnswer] + WrongAnswers
        random.shuffle(AnswerList)

        global CorrectIndex
        CorrectIndex = AnswerList.index(CorrectAnswer)

        # Print options and get user's answer

```

```

        for j in range(len(AnswerList)):
            AnswerLabels[j].configure(text=f'{j+1}. {AnswerList[j]}')
        else:
            DiweddCwestiynnauFfugPrawf(score,50,userId,LefelMynediad)

root.title("Ffug Prawf")
root.geometry("1000x750")

frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)

customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century
Gothic",24),text_color="White").pack()
customtkinter.CTkLabel(frame,text="Ffug
Prawf",font=("Roboto",24),text_color="White").pack()

global scoreLabel
scoreLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
scoreLabel.pack(pady=25)

customtkinter.CTkLabel(frame,text="Cwestiwn :
",font=("Arial",18),text_color="White").pack()

CwestiwnLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
CwestiwnLabel.pack(pady=25)

customtkinter.CTkLabel(frame,text="Atebion :",font=("Arial",18),text_color="White").pack()

AtebCywirLabel=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
AtebCywirLabel.pack(pady=15)

AtebAnghywir1Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
AtebAnghywir1Label.pack(pady=15)

AtebAnghywir2Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
AtebAnghywir2Label.pack(pady=15)

AtebAnghywir3Label=customtkinter.CTkLabel(frame,text="",font=("Arial",18),text_color="White")
AtebAnghywir3Label.pack(pady=15)

customtkinter.CTkLabel(frame,text="Mewnbynnwch ateb",font=("Arial",18)).pack()

```



```
DewisEntry = customtkinter.CTkEntry(frame, placeholder_text="",width=200,height=20)
DewisEntry.pack(pady=15)
```

```
CadarnhauButton = customtkinter.CTkButton(frame, text="Cadarnhau", font=("Monaco",
18), fg_color="Green",
                                     command=lambda: DewisFfugPrawf(DewisEntry.get()))
CadarnhauButton.pack()
```

```
root.bind('<Return>', lambda event: CadarnhauButton.invoke())
```

```
AnswerLabels=[AtebCywirLabel,AtebAnghywir1Label,AtebAnghywir2Label,AtebAnghywir3L
abel]
```

```
CwestiwnFfugPrawf(userid,LefelMynediad)
```

```
def CatogriAndQuestionSelectorForRevision(userid,LefelMynediad):
    for Widget in root.winfo_children():
        Widget.destroy()
```

```
root.title("Dewis opsiynnau adolygu")
root.geometry("1000x750")
frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)
customtkinter.CTkLabel(frame,text="Ysgol Moduro Normanell",font=("Century
Gothic",45),text_color="White").pack()
customtkinter.CTkLabel(frame,text="Ffurflen Opsiynnau
Adolygu",font=("Roboto",36),text_color="White").pack()
```

```
customtkinter.CTkLabel(frame,text="Dewiswch faint o cwestiynnau i
adolygu",font=("Arial",18),text_color="White").pack()
```

```
customtkinter.CTkButton(frame,text="10",font=("Arial",10),fg_color="Blue",command=lambda
: DewisNiferCwestiynnau(10)).pack()
```

```
customtkinter.CTkButton(frame,text="20",font=("Arial",10),fg_color="Blue",command=lambda
: DewisNiferCwestiynnau(20)).pack()
```

```
customtkinter.CTkButton(frame,text="30",font=("Arial",10),fg_color="Blue",command=lambda
: DewisNiferCwestiynnau(30)).pack()
```

```
customtkinter.CTkButton(frame,text="40",font=("Arial",10),fg_color="Blue",command=lambda
: DewisNiferCwestiynnau(40)).pack()
```

```
customtkinter.CTkLabel(frame,text="Dewiswch pa catogri o cwestiynnau i
adolygu",font=("Arial",18),text_color="White").pack()
```

```
customtkinter.CTkButton(frame,text="Alertness",font=("Arial",10),fg_color="Red",command=l  
ambda: DewisCatogri("Alertness")).pack()
```

```
customtkinter.CTkButton(frame,text="Attitude",font=("Arial",10),fg_color="Red",command=l  
ambda: DewisCatogri("Attitude")).pack()
```

```
customtkinter.CTkButton(frame,text="Hazard  
awareness",font=("Arial",10),fg_color="Red",command=lambda: DewisCatogri("Hazard  
awareness")).pack()
```

```
customtkinter.CTkButton(frame,text="Motorway  
rules",font=("Arial",10),fg_color="Red",command=lambda: DewisCatogri("Motorway  
rules")).pack()
```

```
customtkinter.CTkLabel(frame,text="Catogri o cwestiynnau i  
adolygu",font=("Arial",18),text_color="White").pack()
```

```
CatogriAdolyguEntry=customtkinter.CTkEntry(frame,placeholder_text="Catogri",width=200,h  
eight=20)
```

```
CatogriAdolyguEntry.pack(pady=20)
```

```
customtkinter.CTkLabel(frame,text="Nifer o cwestiynnau i  
adolygu",font=("Arial",18),text_color="White").pack()
```

```
NiferCwestiynnauEntry=customtkinter.CTkEntry(frame,placeholder_text="Nifer o  
cwestiynnau",width=200,height=20)
```

```
NiferCwestiynnauEntry.pack(pady=20)
```

```
ButtonDewis=customtkinter.CTkButton(frame,text="Adolygu",font=("Monaco",18),fg_color="G  
reen",command=lambda:
```

```
RevisionQuestions(userid,LefelMynediad,NiferCwestiynnauEntry.get(),CatogriAdolyguEntry.  
get()))
```

```
ButtonDewis.pack(pady=20)
```

```
ButtonYnOl=customtkinter.CTkButton(frame,text="Yn  
ol",font=("Monaco",18),fg_color="Red",command=lambda:
```

```
RevisionHome(userid,LefelMynediad))
```

```
ButtonYnOl.pack()
```

```
def DewisNiferCwestiynnau(Nifer):
```

```
    NiferCwestiynnauEntry.delete(0,END)
```

```
    NiferCwestiynnauEntry.insert(0,Nifer)
```

```
    print(f"Nifer cwestiynnau {Nifer}")
```

```
def DewisCatogri(Catogri):
```

```
    CatogriAdolyguEntry.delete(0,END)
```

```
    CatogriAdolyguEntry.insert(0,Catogri)
```

```

def RevisionHome(userid,LefelMynediad):
    for widget in root.winfo_children():
        widget.destroy()

    root.title("Catref Adolygu ")
    root.geometry("1000x750")
    frame=customtkinter.CTkFrame(root,fg_color="#8692F5", bg_color="#8692F5")
    frame.pack(fill="both", expand=True, padx=20, pady=20)
    customtkinter.CTkLabel(frame,text="Ysgol Moduro Normanell",font=("Century
Gothic",45),text_color="White").pack()
    customtkinter.CTkLabel(frame,text="Ffurflen Catref
Adolygu",font=("Roboto",36),text_color="White").pack()
    customtkinter.CTkLabel(frame,text="Dewiswch beth i wneud
isod",font=("Arial",18),text_color="White").pack()
    customtkinter.CTkButton(frame,text="Ymarfer Cwestiynnau
theori",font=("Monaco",24),fg_color="Green",command=lambda:
CatogriAndQuestionSelecterForRevision(userid,LefelMynediad)).pack(pady=20)
    customtkinter.CTkButton(frame,text="Cymryd ffug
prawf",font=("Monaco",24),fg_color="Red",command=lambda:
ffugPrawf(userid,LefelMynediad)).pack(pady=20)

    if LefelMynediad=="Cwsmer":

customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Green",comman
d=lambda : CustomerHomePage(userid)).pack(pady=20)
        elif LefelMynediad=="Gyrrwr":

customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Green",comman
d=lambda : DriversHomePage(userid)).pack(pady=20)

def YchwaneguBwciadCwsmer(customerid):
    global BwcioGwersCwsmerPage
    global CustomersCredit
    SelectedBookingId=BwcioGwersCwsmerPage.get_entry_value("BookingId")

    if CustomersCredit is not None:
        CustomersCredit = int(CustomersCredit[0]) # Convert to integer
        if CustomersCredit > 0:
            BookingsCursor.execute("SELECT BookingID FROM BookingsTable WHERE
BookingID = ? AND Status = ?",(SelectedBookingId,"Available"))
            isAvailable=BookingsCursor.fetchone()
            bookingsdatabase.commit()
            if isAvailable:
                CustomersCredit=CustomersCredit-1
                CustomerCursor.execute("UPDATE CustomersTable SET Credit = ? WHERE
CustomerID = ?",(CustomersCredit,customerid))
                CustomerDataBase.commit()

```

```

        BookingsCursor.execute("UPDATE BookingsTable SET CustomerID = ? ,Status =
? , WediGorffen = ? WHERE BookingID = ?",(customerid,"Not
Available","Na",SelectedBookingId,))
        bookingsdatabase.commit()
        messagebox.showinfo("Llwyddiant",f"Rydych wedi bwcio gwers , rydych nawr efo
{CustomersCredit} credit")
        CustomerHomePage(customerid)
    else:
        messagebox.showinfo("Anllwyddianus","Nid yw'r id bwciad rydych wedi
mewnbynnu yn bodoli")
        BwcioGwersCwsmer(customerid)
    else:
        messagebox.showinfo("Bwcio Gwers",f"Yn anffodus rydych methu bwcio gan nad
ydych efo digon o credit plis talu yr derbynydd . Rydych efo {CustomersCredit} credit")
        CustomerHomePage(customerid)

```

```

def BwcioGwersCwsmer(customerid):
    for Widget in root.wininfo_children():
        Widget.destroy()
    global BwcioGwersCwsmerPage
    global CustomersCredit

```

```

        CustomerCursor.execute("SELECT Credit FROM CustomersTable WHERE CustomerID =
?",(customerid,))
        CustomersCredit=CustomerCursor.fetchone()
        CustomerDataBase.commit()

```

```

        BwcioGwersCwsmerPageElements=[["Label","Ysgol Moduro Normansell","Century
Gothic",45,"White"],
        ["Label","Bwcio Gwers","Roboto",36,"White"],
        ["Label",f"Rydych efo {CustomersCredit[0]}
credit","Roboto",29,"White"],
        ["Button","Catref","Monaco",18,"Red",lambda:
CustomerHomePage(customerid)],
        ["Label","Mewnbynnwch yr Booking ID rydych eisiau bwcio
isod","Arial",18,"White"],
        ["EntryBox","BookingId",200,20],
        ["Button","Enter","Monaco",18,"Green",lambda:
YchwaneguBwciadCwsmer(customerid)],
        ["Label"," BookingID          Enw Gyrrwr
Dyddiad ac Amser","Arial",16,"White"],
        ["Label","-----          -----
-----","Arial",16,"Black"]
        ]

```

```

        BwcioGwersCwsmerPage=MakeWindow(root,"FFurflen Bwcio
Gwers",BwcioGwersCwsmerPageElements)

```

```
BookingsCursor.execute("SELECT BookingID, DATE, DriverID FROM BookingsTable  
WHERE Status != ? AND WediGorffen = ?", ("Not Available", "Na"))
```

```
DatesAndDriverIdToBook=BookingsCursor.fetchall()
```

```
bookingsdatabase.commit()
```

```
for i in range (len(DatesAndDriverIdToBook)):
```

```
#mae driverid fydd 'ail' eitem wedi cywain o cofnod yn bookings table sydd wedi storio mewn  
newidyn DatesAndDriverIdToBook ,cywain ai storio mewn newidyn DatesAndDriverIdToBook
```

```
DriverIDBooking=DatesAndDriverIdToBook[i][2]
```

```
#dewis enw ac cyfenw sydd yn cysylltiedig ar id yr gyrrwr yn index dolen i , 1 or newidyn  
DatesAndDriverIdToBook
```

```
DriverCursor.execute("SELECT Name, Surname FROM DriversTable WHERE  
DriversID = ?", (DriverIDBooking,))
```

```
EnwCyfnewGyrrwr=DriverCursor.fetchall()
```

```
DriverDatabase.commit()
```

```
if EnwCyfnewGyrrwr :
```

```
#prints name surname , driver id
```

```
print(f'{EnwCyfnewGyrrwr[0][0]} {EnwCyfnewGyrrwr[0][1]} --  
{DriverIDBooking}')
```

```
#prints date sydd yn yr eitem cyntaf yn cofnod i yr newidyn  
DatesAndDriversToBook
```

```
print(DatesAndDriverIdToBook[i][0])
```

```
print()
```

```
BwcioGwersCwsmerPage.add_label_string(f' {DatesAndDriverIdToBook[i][0]}  
- {EnwCyfnewGyrrwr[0][0]} {EnwCyfnewGyrrwr[0][1]} - {DatesAndDriverIdToBook[i][1]}',24)
```

```
def DangosBwciadauYrCwsmer(customerid):
```

```
global DyddiadurCwsmeriaidPage
```

```
BookingsCursor.execute("SELECT Date, DriverID FROM BookingsTable WHERE  
CustomerID =? AND WediGorffen =?",(customerid,"Na"))
```

```
AllCustomerBookings=BookingsCursor.fetchall()
```

```
bookingsdatabase.commit()
```

```
print(AllCustomerBookings)
```

```
#allow drivers to set lesson to finished, add finished field to lessons
```

```
for i in range (len(AllCustomerBookings)):
```

```
DriverID=AllCustomerBookings[i][1]
```

```
DriverCursor.execute("SELECT Name, Surname FROM DriversTable WHERE  
DriversID = ?", (DriverID,))
```

```
DriversNameAndSurname=DriverCursor.fetchall()
```

```
DriverDatabase.commit()
```

```
for j in range (len(DriversNameAndSurname)):
```

```

        DyddiadurCwsmeriaidPage.add_label_string(f'{DriversNameAndSurname[j][0]}
{DriversNameAndSurname[j][1]}')

```

```

        DyddiadurCwsmeriaidPage.add_label_string(AllCustomerBookings[i][0])

```

```

def DyddiadurCwsmeriaid(customerid):
    for Widget in root.winfo_children():
        Widget.destroy()

```

```

global DyddiadurCwsmeriaidPage

```

```

        CustomerCursor.execute("SELECT Name,Credit FROM CustomersTable WHERE
CustomerID = ?",(customerid))

```

```

        CustomerName=CustomerCursor.fetchone()

```

```

        CustomerDataBase.commit()

```

```

        DyddiadurCwsmeriaidPageElements=[["Label","Ysgol Moduro Normansell","Century
Gothic",45,"White"],

```

```

                ["Label",f'Dyddiadur {CustomerName[0]}',"Roboto",46,"White"],

```

```

                ["Label","Eich Bwciadau","Roboto",36,"White"],

```

```

                ["Label",f'Rydych efo {CustomerName[1]} credit',"Arial",18,"White"],

```

```

                ["Button","Catref","Monaco",18,"Red",lambda:

```

```

CustomerHomePage(customerid)]

```

```

                ]

```

```

        DyddiadurCwsmeriaidPage=MakeWindow(root,"Dyddiadur
Cwsmeriaid",DyddiadurCwsmeriaidPageElements)

```

```

        DangosBwciadauYrCwsmer(customerid)

```

```

#page to search

```

```

#once found another page displays , user enters id

```

```

#when entered id new page to send message

```

```

#when sent message calls homepage

```

```

def DanfonYmholiad(userid,LefelMynediadDanfonI,LefelMynediad,IdDefnyddiwr):

```

```

    global DanfonYmholiadPage

```

```

    global EnwDefnyddiwr

```

```

    Neges=DanfonYmholiadPage.get_entry_value("Eich ymholiad")

```

```

    print(f'SIGMA SKEIAGNRIO {IdDefnyddiwr}')

```

```

    if Neges=="":

```

```

        messagebox.showinfo("Gwall","Rhaid mewnbynnu neges")

```

```

        return

```

```

        YmholiCursor.execute("SELECT YmholiadID FROM YmholiTable ORDER BY YmholiadID
DESC LIMIT 1")

```

```

        last_ymholi_id = YmholiCursor.fetchone()

```

```

#os oes fwy nag un rhes yn yr tabl cwsmeriaid fydd yr customerid yr cwsmer newydd syn
cael ei creu yn 1 fwy na customerid yr cwsmer fwyaf diweddar
    if last_ymholi_id:
        last_ymholi_id=last_ymholi_id[0]
        ymholiID=int(last_ymholi_id)+1
    else:
        ymholiID=1
    print(ymholiID)

#make ymholiad id
    print(LefelMynediad)
    if LefelMynediadDanfon!="Gyrrwr": # if sending to a driver user
        if LefelMynediad=="Cwsmer": #and if sending from a customer user
#None for Receptionist Id as receptionist isn't included in the umholiad ,
            YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,userid,IdDefnyddiwr,None,"Cwsmer","Heb Gweld"))
            YmholiDataBase.commit()
            DriverCursor.execute("SELECT Name FROM DriversTable WHERE DriversID =
?",(IdDefnyddiwr))
            EnwDefnyddiwr=DriverCursor.fetchone()
            messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr[0]}")
            CustomerHomePage(userid)

            elif LefelMynediad=="Derbynydd": #and if sending from a customer user
#None for Receptionist Id as receptionist isn't included in the umholiad ,
            YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,None,IdDefnyddiwr,userid,"Derbynydd","Heb Gweld"))
            YmholiDataBase.commit()
            DriverCursor.execute("SELECT Name FROM DriversTable WHERE DriversID =
?",(IdDefnyddiwr))
            EnwDefnyddiwr=DriverCursor.fetchone()
            messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr[0]}")
            ReceptionistHomePage(userid)

            elif LefelMynediadDanfon!="Derbynydd":
                if LefelMynediad=="Cwsmer":
                    YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,userid,None,IdDefnyddiwr,"Cwsmer","Heb Gweld"))
                    YmholiDataBase.commit()
                    ReceptionistCursor.execute("SELECT Name FROM ReceptionistTable WHERE
ReceptionistID = ?",(IdDefnyddiwr))
                    EnwDefnyddiwr=ReceptionistCursor.fetchone()
                    messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr[0]}")
                    CustomerHomePage(userid)

                elif LefelMynediad=="Gyrrwr":

```

```

        YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,None,userid,IdDefnyddiwr,"Gyrrwr","Heb Gweld"))
        YmholiDataBase.commit()
        ReceptionistCursor.execute("SELECT Name FROM ReceptionistTable WHERE
ReceptionistID = ?",(IdDefnyddiwr))
        EnwDefnyddiwr=ReceptionistCursor.fetchone()
        messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr[0]}")
        DriversHomePage(userid)

```

```

elif LefelMynediadDanfonI=="Cwsmer":
    if LefelMynediad=="Gyrrwr":
        YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,IdDefnyddiwr,userid,None,"Gyrrwr","Heb Gweld"))
        YmholiDataBase.commit()
        CustomerCursor.execute("SELECT Name FROM CustomersTable WHERE
CustomerID = ?",(IdDefnyddiwr))
        EnwDefnyddiwr=CustomerCursor.fetchone()
        messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr}")
        DriversHomePage(userid)

```

```

elif LefelMynediad=="Derbynydd":
    YmholiCursor.execute("INSERT INTO YmholiTable VALUES
(?,?,?,?,?,?,?)",(ymholiID,Neges,IdDefnyddiwr,None,userid,"Derbynydd","Heb Gweld"))
    YmholiDataBase.commit()
    CustomerCursor.execute("SELECT Name FROM CustomersTable WHERE
CustomerID = ?",(IdDefnyddiwr))
    EnwDefnyddiwr=CustomerCursor.fetchone()
    messagebox.showinfo("Ymholiad",f"Wedi danfon ymholiad i {EnwDefnyddiwr}")
    ReceptionistHomePage(userid)

```

```

def MewnbynnuYmholiad(userid,LefelMynediadDanfonI,LefelMynediad):

```

```

    global DangosIdDefnyddiwrYmholipage
    global DanfonYmholiadPage

```

```

    IdDefnyddiwr=DangosIdDefnyddiwrYmholipage.get_entry_value("Id")

```

```

    if IdDefnyddiwr=="":
        messagebox.showinfo("Gwall","Rhaid mewnbynnu id defnyddiwr")
        return

```

```

    for Widget in root.wininfo_children():
        Widget.destroy()

```

```

    if LefelMynediadDanfonI=="Cwsmer":

```



```

        CustomerCursor.execute("SELECT Name FROM CustomersTable WHERE
CustomerID = ? ",(IdDefnyddiwr,))
        Exists=CustomerCursor.fetchone()
        if Exists:
            print(f"Exists: {Exists}")
        else:
            messagebox.showinfo("Ymholi","Nid oes cwsmer efo'r ID yn bodoli")
            return

    if LefelMynediadDanfonI=="Gyrrwr":
        DriverCursor.execute("SELECT Name FROM DriversTable WHERE DriversID = ?
",(IdDefnyddiwr,))
        Exists=DriverCursor.fetchone()
        if Exists:
            print(f"Exists: {Exists}")
        else:
            messagebox.showinfo("Ymholi","Nid oes Gyrrwr efo'r ID yn bodoli")
            return

    if LefelMynediadDanfonI=="Derbynydd":
        ReceptionistCursor.execute("SELECT Name FROM ReceptionistTable WHERE
ReceptionistID = ?",(IdDefnyddiwr,))
        Exists=ReceptionistCursor.fetchone()
        if Exists:
            print(f"Exists : {Exists}")
        else:
            messagebox.showinfo("Ymholi","Nid oes Derbynydd efo'r ID yn bodoli")
            if LefelMynediad=="Cwsmer":
                CustomerHomePage(userid)

    DanfonYmholiadPageElements=[["Label","Ysgol moduro Normansell","Century
Gothic",45,"White"],
                                ["Label","Danfon ymholiad i ...","Roboto",36,"White"],
                                ["EntryBox","Eich ymholiad",700,400],
                                ["Button",f"Danfon ymholiad i {Exists[0]} ","Monaco",18,"Green",lambda:
DanfonYmholiad(userid,LefelMynediadDanfonI,LefelMynediad,IdDefnyddiwr)],
                                ["Button","Catref","Monaco",18,"Red",lambda:
CustomerHomePage(userid)]
                                ]

    DanfonYmholiadPage=MakeWindow(root,"Danfon
Ymholiad",DanfonYmholiadPageElements)

def
DangosIdDefnyddiwrYmholi(customerid,EnwDefnyddiwrIdYmholi,LefelMynediadDanfonI,Lef
elMynediad):
    for Widget in root.winfo_children():
        Widget.destroy()

```

```
global DangosIdDefnyddiwrYmholipage
```

```
DangosIdDefnyddiwrYmholipageElements=[["Label","Ysgol Moduro Normansell","Century Gothic",45,"White"],
["Label","Dewis defnyddiwr i ymholi","Roboto",36,"White"],
["Label","Mewnbynnwch Id defnyddiwr i ymholi",
isod,"Arial",18,"White"],
["EntryBox","Id",200,20],
["Button","Ymholi","Monaco",18,"Green",lambda:
MewnbynnuYmholiad(customerid,LefelMynediadDanfonI,LefelMynediad)],
["Button","Yn ol","Monaco",18,"Red",lambda:
CatrefYmholi(customerid,LefelMynediad)],
["Button","Catref","Monaco",18,"Red",lambda:
CustomerHomePage(customerid)]
]
```

```
DangosIdDefnyddiwrYmholipage=MakeWindow(root,"Dewis defnyddiwr i ymholi",DangosIdDefnyddiwrYmholipageElements)
```

```
for i in range (len(EnwDefnyddiwrIdYmholi)):
    DangosIdDefnyddiwrYmholipage.add_label_string(f"" Enw {LefelMynediad} :
{EnwDefnyddiwrIdYmholi[i][0]}
Id {LefelMynediadDanfonI} : {EnwDefnyddiwrIdYmholi[i][1]}
""")
```

```
def ChwilioAmDefnyddiwrYmholi(userid,LefelMynediad):
```

```
global CatrefYmholiPage
```

```
EnwDefnyddiwrYmholi=CatrefYmholiPage.get_entry_value("Mewnbynnwch enw defnyddiwr") #entrybox ar gyfer enw defnyddiwr
CyfenwDefnyddiwrYmholi=CatrefYmholiPage.get_entry_value("Mewnbynnwch cyfenw defnyddiwr") #entrybox ar gyfer cyfenw defnyddiwr
LefelMynediadYmholi=CatrefYmholiPage.get_combo_value("Gyrrwr") # Combo ar gyfer lefel myneidad
```

```
#dilysu enw defnyddiwr
if EnwDefnyddiwrYmholi == "":
    messagebox.showinfo("Ymholi","Rhaid mewnbynnu enw defnyddiwr yn yr blwch mynediad priodol !")
    CatrefYmholi(userid,LefelMynediad)
EnwDefnyddiwrMathDilys=True
for char in EnwDefnyddiwrYmholi:
```

```

        if char.isdigit()==True:
            EnwDefnyddiwrMathDilys=False
        if EnwDefnyddiwrMathDilys==False:
            messagebox.showinfo("Ymholi","Ni dylai enw defnyddiwr cynnwys rhifau !")
            CatrefYmholi(userid,LefelMynediad)
#dilsyu cyfenw
        if CyfenwDefnyddiwrYmholi == "":
            messagebox.showinfo("Ymholi","Rhaid mewnbynnu cyfewn defnyddiwr yn yr blwch
mynediad priodol !")
            CatrefYmholi(userid,LefelMynediad)
        CyfenwDefnyddiwrMathDilys=True
        for char in CyfenwDefnyddiwrYmholi:
            if char.isdigit()==True:
                CyfenwDefnyddiwrMathDilys=False
        if CyfenwDefnyddiwrMathDilys==False:
            messagebox.showinfo("Ymholi","Ni dylai cyfenw defnyddiwr cynnwys rhifau !")
            CatrefYmholi(userid,LefelMynediad)

if LefelMynediadYmholi=="Gyrrwr":
    print("Fries")
    DriverCursor.execute("SELECT Username , DriversID FROM DriversTable WHERE
Name = ? AND surname = ?",(EnwDefnyddiwrYmholi,CyfenwDefnyddiwrYmholi))
    EnwDefnyddiwrIdYmholi=DriverCursor.fetchall()
    DriverDatabase.commit()
    print(EnwDefnyddiwrIdYmholi)

    if EnwDefnyddiwrIdYmholi:
        DangosIdDefnyddiwrYmholi(userid,EnwDefnyddiwrIdYmholi,"Gyrrwr",LefelMynediad)
    else:
        messagebox.showinfo("Ymholi","Nid yw defnyddiwr efo manylion sydd wedi
mewnbynnu yn bodoli")
        CatrefYmholi(userid,LefelMynediad)

elif LefelMynediadYmholi=="Cwsmer":
    print("chips")
    CustomerCursor.execute("SELECT Username , CustomerID FROM CustomersTable
WHERE Name = ? AND surname = ?",(EnwDefnyddiwrYmholi,CyfenwDefnyddiwrYmholi))
    EnwDefnyddiwrIdYmholi=CustomerCursor.fetchall()
    CustomerDataBase.commit()
    print(EnwDefnyddiwrIdYmholi)

    if EnwDefnyddiwrIdYmholi:
        DangosIdDefnyddiwrYmholi(userid,EnwDefnyddiwrIdYmholi,"Cwsmer",LefelMynediad)
    else:

```

```

        messagebox.showinfo("Ymholi", "Nid yw defnyddiwr efo manylion sydd wedi
mewnbynnu yn bodoli")
        CatrefYmholi(userid, LefelMynediad)

    elif LefelMynediadYmholi=="Derbynydd":
        print("Blob Fish")
        ReceptionistCursor.execute("SELECT Username , ReceptionistID FROM
ReceptionistTable WHERE Name = ? AND Surname =
?", (EnwDefnyddiwrYmholi, CyfenwDefnyddiwrYmholi))
        EnwDefnyddiwrIdYmholi=ReceptionistCursor.fetchall()
        print(EnwDefnyddiwrIdYmholi)

    if EnwDefnyddiwrIdYmholi:

DangosIdDefnyddiwrYmholi(userid, EnwDefnyddiwrIdYmholi, "Derbynydd", LefelMynediad)
    else:
        messagebox.showinfo("Ymholi", "Nid oes defnyddiwr efo manylion hyn yn bodoli")
        CatrefYmholi(userid, LefelMynediad )

# dont make new window in this function , see use for dilysu

def CatrefYmholi(userid, LefelMynediad):
    for Widget in root.winfo_children():
        Widget.destroy()

    global CatrefYmholiPage

    CatrefYmholiPageElements=[["Label", "Ysgol Moduro Normansell", "Century
Gothic", 45, "White"],
                                ["Label", "Catref Ymholiadau", "Roboto", 36, "White"],
                                ["Label", "Chwilio am defnyddiwr", "Arial", 19, "White"],
                                ["EntryBox", "Mewnbynnwch enw defnyddiwr", 400, 40],
                                ["EntryBox", "Mewnbynnwch cyfenw defnyddiwr", 400, 40],
                                ["ComboBox", "Gyrrwr", "Derbynydd", "Cwsmer"],
                                ["Button", "Chwilio", "Monaco", 18, "Red", lambda:
ChwilioAmDefnyddiwrYmholi(userid, LefelMynediad)],
                                ["Button", "Catref", "Monaco", 18, "Green", lambda:
DriversHomePage(userid) if LefelMynediad == "Gyrrwr" else CustomerHomePage(userid) ]
                                ]

    CatrefYmholiPage=MakeWindow(root, "Ffurflen Catref
Ymholiad", CatrefYmholiPageElements)

def CustomerHomePage(customerid):
    for Widget in root.winfo_children():

```

```
Widget.destroy()
```

```
CustomerCursor.execute("SELECT Name FROM CustomersTable WHERE CustomerID =  
? ",(customerid,))  
UserNameAndSurname=CustomerCursor.fetchone()  
CustomerDataBase.commit()
```

```
CustomerHomePageElements=[  
  
    ["Label","Ysgol Moduro Normansell","Roboto",45,"White"],  
    ["Label","fCroeso {UserNameAndSurname[0]}","Roboto",36,"White" ],  
    ["Label","Beth hoffwch wneud ? ","Arial",18,"White"],  
    ["Button","Adolygu","Monaco",36,"Green",lambda:  
RevisionHome(customerid,"Cwsmer")],  
    ["Button","Dyddiadur","Monaco",36,"Blue",lambda: DyddiadurCwsmeriaid(customerid)],  
    ["Button","Bwcio Gwers","Monaco",36,"Green",lambda:  
BwcioGwersCwsmer(customerid)],  
    ["Button","Ymholi","Monaco",36,"Blue",lambda: CatrefYmholi(customerid,"Cwsmer")],  
    ["Button","Gweld ymholiadau","Monaco",36,"Green",lambda:  
DewisYmholiad(customerid,"Cwsmer")],  
    ["Button","Logio Allan","Monaco",36,"Red",lambda: LoginPage()]  
  
    ]
```

```
CustomerHomePagewindow = MakeWindow(root, "CustomerHomePage",  
CustomerHomePageElements)
```

```
def DyddiadurGyrrwr(driverid):  
    for Widget in root.winfo_children():  
        Widget.destroy()
```

```
DriverCursor.execute("SELECT Name FROM DriversTable WHERE  
DriversID=?", (driverid))  
EnwGyrrwr=DriverCursor.fetchone()  
EnwGyrrwr=EnwGyrrwr[0]  
DriverDatabase.commit()
```

```
BookingsCursor.execute("SELECT Date, TypeOfBooking, CustomerID,Status FROM  
BookingsTable WHERE DriverID = ? AND WediGorffen = ?",(driverid,"Na"))  
Bookings=BookingsCursor.fetchall()  
bookingsdatabase.commit()
```

```
root.title("Dyddiadur Gyrrwr")
```

```
frame = customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")  
frame.pack(fill="both", expand=True, padx=20, pady=20)
```

```
customtkinter.CTkLabel(frame,text=(f"Bwciadau {EnwGyrrwr}"),font=("Century Gothic",36)).pack()
```

```
DyddiadurGyrrwrTextBox=customtkinter.CTkTextbox(frame,width=500,height=500)  
DyddiadurGyrrwrTextBox.pack()
```

```
if Bookings:
```

```
    for i in range (len(Bookings)):
```

```
        CustomerCursor.execute("SELECT Name ,Surname , Username FROM  
CustomersTable WHERE CustomerID = ?",(Bookings[i][2],))
```

```
        CustomerName = CustomerCursor.fetchone()
```

```
        if CustomerName:
```

```
            DyddiadurGyrrwrTextBox.insert(tk.END,f"""  
Bwciad {i+1}  
Dyddiad : {Bookings[i][0]} ,  
Math : {Bookings[i][1]} ,  
Enw Cwsmer : {CustomerName[0]} {CustomerName[1]} ,  
Enw Defnyddiwr : {CustomerName[2]}  
Statws : {Bookings[i][3]}  
""")
```

```
        else:
```

```
            DyddiadurGyrrwrTextBox.insert(tk.END,f"""  
Bwciad {i+1}  
Dyddiad : {Bookings[i][0]} ,  
Math : {Bookings[i][1]} ,  
Statws : {Bookings[i][3]}  
""")
```

```
ButtonCatref =
```

```
customtkinter.CTkButton(frame,text=("Catref"),font=("Monaco",18),fg_color="Red",command  
=lambda: DriversHomePage(driverid))
```

```
ButtonCatref.pack()
```

```
def ychwaneguBwciadGyrrwr(driverid):
```

```
    global BwciadauGyrrwrPage
```

```
    #angen DILYSU DILYSU
```

```
    DyddiadBwciad=BwciadauGyrrwrPage.get_entry_value("Dyddiad Bwciad")
```

```
    AmserBwciad=BwciadauGyrrwrPage.get_entry_value("Amser Bwciad")
```

```
    MathBwciad=BwciadauGyrrwrPage.get_combo_value("Heb Pasio")
```

```
    MaesyddYchwaneguBwciad =[DyddiadBwciad,AmserBwciad]
```

```
    for Maes in MaesyddYchwaneguBwciad:
```

```

if Maes=="":
    messagebox.showinfo("Ychwanegu Bwciad", "Rhaid llenwi holl meysydd")
    BwciadauGyrrwr(driverid)
    return

print(DyddiadBwciad)
#dilysu dyddiad
if DyddiadBwciad[0:2].isdigit()==False or DyddiadBwciad[3:4].isdigit()==False or
DyddiadBwciad[6:].isdigit()==False:
    messagebox.showinfo("Ychwanegu bwciad", "Rhaid ir dyddiad dilyn format (00/00/0000)
")
    BwciadauGyrrwr(driverid)
    return
elif len (DyddiadBwciad)!=10:
    messagebox.showinfo("Ychwanegu bwciad", "Rhaid ir dyddiad cynnwys 9 cymerid yn
dilyn format (00/00/0000) ")
    BwciadauGyrrwr(driverid)
    return
elif DyddiadBwciad[2] !="/" or DyddiadBwciad[5]!=" /":
    messagebox.showinfo("Ychwanegu bwciad", "Rhaid defnyddio '/' i gwahanu dyddiad ,
mis ac blwyddyn (00/00/0000)")
    BwciadauGyrrwr(driverid)
    return
#dilysu amser
print(AmserBwciad)
if AmserBwciad[0:2].isdigit()==False or AmserBwciad[3:5].isdigit()==False or
AmserBwciad[6:8].isdigit()==False or AmserBwciad[9:].isdigit()==False:
    messagebox.showinfo("Ychwanegu Bwciad", "Rhaid i cymeriadau priodol yr amser
cynnwys digidau , format yw (00:00-00:00)")
    BwciadauGyrrwr(driverid)
    return

```

#angen wneud dilysu ar gyfer dyddiad ac amser bwciad

```

BookingsCursor.execute("SELECT BookingID FROM BookingsTable ORDER BY
BookingID DESC LIMIT 1")
Last_booking_id = BookingsCursor.fetchone()

```

#os oes fwy nag un rhes yn yr tabl cwsmeriaid fydd yr customerid yr cwsmer newydd syn cael ei creu yn 1 fwy na customerid yr cwsmer fwyaf diweddar

```

if Last_booking_id:
    Last_booking_id=Last_booking_id[0]
    bookingId=int(Last_booking_id)+1
else:
    bookingId=1

```

```

print(bookingId)

```

```

date=(f"{DyddiadBwciad}-{AmserBwciad}")
print(date)
print(MathBwciad)

```

```

BookingsCursor.execute("INSERT INTO BookingsTable VALUES (?, ?, ?, ?, ?, ?, ?)",
                        (bookingId, date, MathBwciad, None, driverid, "Available", "Na"))

```

```

bookingsdatabase.commit()

```

```

messagebox.showinfo("LLwyddiant", "Mae'r bwciad wedi cael ei ychwanegu")

```

```

for Widget in root.winfo_children():
    Widget.destroy()
DriversHomePage(driverid)

```

```

def BwciadauGyrrwr(driverid):
    for Widget in root.winfo_children():
        Widget.destroy()#add math o bwcaid to bookingstable
    global BwciadauGyrrwrPage

```

```

    BwciadauGyrrwrPageElements=[["Label", "Ysgol Moduro Normansell", "Century
    Gothic", 56, "White"],
                                  ["Label", "Mewnbynnwch manylion yr bwciad i
    ychwanegu", "Arial", 18, "White"],
                                  ["EntryBox", "Dyddiad Bwciad", 200, 30],
                                  ["EntryBox", "Amser Bwciad", 200, 30],
                                  ["Label", "Dewiswch math o bwciad ", "Arial", 18, "White"],
                                  ["ComboBox", "Heb Pasio", "Wedi Pasio", ""],
                                  ["Button", "Enter", "Monaco", 18, "Green", lambda:
    ychwaneguBwciadGyrrwr(driverid)],
                                  ["Button", "Catref", "Monaco", 18, "Green", lambda:
    DriversHomePage(driverid)]
    ]

```

```

    BwciadauGyrrwrPage=MakeWindow(root, "Ffurflen Ychawngu
    Bwciadau", BwciadauGyrrwrPageElements)

```

```

def YchwaneguCwestiwnTheoriAtTabl(driverid):
    global YchwaneguCwestiynnauTheoriPage

```

```

    Cwestiwn=YchwaneguCwestiynnauTheoriPage.get_entry_value("Cwestiwn i ychwanegu")
    AtebCywir=YchwaneguCwestiynnauTheoriPage.get_entry_value("Ateb cywir ir cwestiwn")

```



```

AtebAnghywirCyntaf=YchwaneguCwestiynnauTheoriPage.get_entry_value("Ateb
anghywir ir cwestiwn")
AtebAnghywirAil=YchwaneguCwestiynnauTheoriPage.get_entry_value("Ail ateb anghywir
ir cwestiwn")
AtebAnghywirTrydydd=YchwaneguCwestiynnauTheoriPage.get_entry_value("Trydydd
ateb anghywir ir cwestiwn")

```

```

Catogri=YchwaneguCwestiynnauTheoriPage.get_combo_value("Alertness")

```

```

MewnbynnauAiDilysu=[
    [Cwestiwn,"Rhaid mewnbynnu Cwestiwn theori"],
    [AtebCywir,"Rhaid mewnbynnu ateb ir cwestiwn"],
    [AtebAnghywirCyntaf,"Rhaid mewnbynnu ateb anghywir cyntaf"],
    [AtebAnghywirAil,"Rhaid mewnbynnu ail ateb anghywir"],
    [AtebAnghywirTrydydd,"Rhaid mewnbynnu trydydd ateb anghywir"],
    ]

```

```

Dilys = True
for i in range (len(MewnbynnauAiDilysu)):
    if MewnbynnauAiDilysu[i][0]=="":
        messagebox.showinfo("Gwall",MewnbynnauAiDilysu[i][1])
        return

```

```

if Dilys==False:
    YchwaneguCwestiynnauTheori(driverid)

```

```

RevisionCursor.execute("SELECT RevisionID FROM RevisionTable ORDER BY
RevisionID DESC LIMIT 1")
last_revision_id = RevisionCursor.fetchone()

```

#os oes fwy nag un rhes yn yr tabl cwsmeriaid fydd yr customerid yr cwsmer newydd syn cael ei creu yn 1 fwy na customerid yr cwsmer fwyaf diweddar

```

if last_revision_id:
    last_revision_id=last_revision_id[0]
    revisionID=int(last_revision_id)+1
else:
    revisionID=1

```

```

print(revisionID)

```

```

if Dilys==True:
    RevisionCursor.execute("INSERT INTO RevisionTable VALUES (?, ?, ?, ?, ?, ?, ?)",
(revisionID,Cwestiwn, AtebCywir, AtebAnghywirCyntaf, AtebAnghywirAil,
AtebAnghywirTrydydd, Catogri))
    Revisiondatabase.commit()

```

```
messagebox.showinfo("LLwyddiant","Mae'r cwestiwn wedi cael ei ychwanegu at tabl  
cwestiynnau")
```

```
DriversHomePage(driverid)
```

```
def YchwaneguCwestiynnauTheori(driverid):  
    for Widget in root.winfo_children():  
        Widget.destroy()  
    global YchwaneguCwestiynnauTheoriPage
```

```
YchwaneguCwestiynnauTheoriElements=[["Label","Ysgol Moduro Normansell","Century  
Gothic",56,"White"],
```

```
        ["Label","Ychwanegu Cwestiynnau theori","Roboto",36,"White"],  
        ["Label","Mewnbynnwch eich cwestiynnau ar atebion  
isod","Arial",18,"White"],  
        ["EntryBox","Cwestiwn i ychwanegu",500,100],  
        ["EntryBox","Ateb cywir ir cwestiwn",500,50],  
        ["EntryBox","Ateb anghywir ir cwestiwn",500,50],  
        ["EntryBox","Ail ateb anghywir ir cwestiwn",500,50],  
        ["EntryBox","Trydydd ateb anghywir ir cwestiwn",500,50],  
        ["Label","Dewiswch catogri cysylltiedig","Arial",19,"White"],  
        ["ComboBox","Alertness","Hazard Awarness","Attitude"],  
        ["Button","Enter","Monaco",24,"Green",lambda:  
YchwaneguCwestiwnTheoriAtTabl(driverid)],  
        ["Button","Catref","Monaco",18,"Red",lambda:  
DriversHomePage(driverid)]  
    ]
```

```
YchwaneguCwestiynnauTheoriPage=MakeWindow(root,"Ffurflen Ychwanegu  
Cwestiynnau Theori",YchwaneguCwestiynnauTheoriElements)
```

```
def ArddangosCwestiwnCatogri(driverid):  
    global GweldCwestiynnauTheoriPage
```

```
Catogri=GweldCwestiynnauTheoriPage.get_entry_value("Catogri")
```

```
for Widget in root.winfo_children():  
    Widget.destroy()
```

```
#dilysu presenoldeb  
if Catogri=="":  
    messagebox.showinfo("Gweld cwestiynnau theori","Rhaid mewnbynnu catogri")  
    GweldCwestiynnauTheori(driverid)  
    return  
elif Catogri != "Alertness" and Catogri != "Awarness" and Catogri != "Hazard Awarness"  
and Catogri != "Motorway rules":
```

```

        messagebox.showinfo("Gweld cwestiynnau theori","Rhaid ir catogri fod yn Alertness,
        Awarness, Hazard Awarness neu Motorway rules")
        GweldCwestiynnauTheori(driverid)
        return

```

```

        RevisionCursor.execute("SELECT Question FROM RevisionTable WHERE Catogry=?",
        (Catogri,))

```

```

        Questions=RevisionCursor.fetchall()
        Revisiondatabase.commit()
        print(Questions)

```

```

        root.title("Arddangos Cwestiynnau theori")

```

```

        frame = customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")
        frame.pack(fill="both", expand=True, padx=20, pady=20)

```

```

        customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century
        Gothic",36),text_color="White").pack()
        customtkinter.CTkLabel(frame,text=f"Cwestiynnau
        {Catogri}",font=("Roboto",24),text_color="White").pack()

```

```

        BoxCwestiynnau=customtkinter.CTkTextbox(frame,width=750,height=500)
        BoxCwestiynnau.pack()

```

```

        counter=0
        for Question in Questions:
            counter+=1
            BoxCwestiynnau.insert(tk.END, f"{counter}) {Question[0]}\n")

```

```

        customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Green",command=
        lambda: DriversHomePage(driverid)).pack()

```

```

def GweldCwestiynnauTheori(driverid):
    for Widget in root.wininfo_children():
        Widget.destroy()

```

```

        global GweldCwestiynnauTheoriPage

```

```

        GweldCwestiynnauTheoriPageElements=[["Label","Ysgol Moduro Normansell","Century
        Gothic",45,"White"],

```

```

                ["Label","Dewiswch Catogri","Arial",18,"White"],
                ["Label","Mewnbynnwch catogri i gweld
        ('Alertness','Awarness','Hazard Awarness' neu 'Motorway rules)','Arial",18,"White"],
                ["EntryBox","Catogri",200,20],

```

```

["Button","Enter","Monaco",18,"Green",lambda:
ArddangosCwestiwnCatogri(driverid)],
["Button","Catref","Monaco",18,"Red",lambda:
DriversHomePage(driverid)]
]

```

```

GweldCwestiynnauTheoriPage=MakeWindow(root,"Ffurflen Gweld Cwestiynnau
Theori",GweldCwestiynnauTheoriPageElements)

```

```

def
WediGweldYmholiad(userid,Neges,IdDefnyddiwr,LefelMynediadDefnyddiwr,LefelMynediad):
    print(f"OHIO {LefelMynediadDefnyddiwr}")
    print(f"SIGMA {LefelMynediad}")
    if LefelMynediadDefnyddiwr=="Cwsmer":
        print(f" neges {Neges[0]}")
        print(f" IdDefnyddiwr {IdDefnyddiwr}")
        print(f" userid {userid}")
        YmholiCursor.execute("UPDATE YmholiTable SET Status=? WHERE Neges=? AND
CustomerID=? AND DriverID=?", ("Wedi Gweld", (Neges[0]), IdDefnyddiwr, userid))
        YmholiDataBase.commit()
        if LefelMynediad=="Cwsmer":
            CustomerHomePage(userid)
        elif LefelMynediad=="Gyrrwr":
            DriversHomePage(userid)
        #DriversHomePage(userid)
    if LefelMynediadDefnyddiwr=="Gyrrwr":

        YmholiCursor.execute("UPDATE YmholiTable SET Status=? WHERE Neges=? AND
CustomerID=? AND DriverID=?", ("Wedi Gweld", (Neges[0]), userid, IdDefnyddiwr))
        YmholiDataBase.commit()
        if LefelMynediad=="Cwsmer":
            CustomerHomePage(userid)
        elif LefelMynediad=="Gyrrwr":
            DriversHomePage(userid)

def MarcioFelWediGweld(userid,LefelMynediad,YmholiadId):
    YmholiCursor.execute("UPDATE YmholiTable SET Status = ? WHERE YmholiadId =
?",("Wedi Gweld",YmholiadId))
    YmholiDataBase.commit()
    if LefelMynediad=="Cwsmer":
        CustomerHomePage(userid)
    elif LefelMynediad=="Gyrrwr":
        DriversHomePage(userid)

def GweldYmholiad(userid, LefelMynediad,EnwCyfenwSentFrom):
    global IdYmholiadEntry

```

```

YmholiadId = IdYmholiadEntry.get()

if YmholiadId == "":
    messagebox.showinfo("Gwall", "Rhaid mewnbynnu id ymholiad yn yr blwch mynediad")
    return

#select negrs from ymholitable where ymholiadid = ?
YmholiCursor.execute("SELECT Neges FROM YmholiTable WHERE YmholiadID =
?", (YmholiadId,))
Neges=YmholiCursor.fetchone()

if Neges:
    pass
else:
    messagebox.showinfo("Gwall", "Nid ydych wedi mewnbynnu id ymholiad dilys , mae'nt i
weld uchod")
    return

YmholiDataBase.commit()

for Widget in root.winfo_children():
    Widget.destroy()

root.title("Gweld Ymholiad")
frame = customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)
customtkinter.CTkLabel(frame, text="Ysgol Moduro Normansell", font=("Century Gothic",
45), text_color="White").pack()
customtkinter.CTkLabel(frame, text=f"Neges oddi {EnwCyfenwSentFrom[0][0]}
{EnwCyfenwSentFrom[0][1]} ", font=("Roboto", 36), text_color="White").pack()
TextboxYmholiad=customtkinter.CTkTextbox(frame,width=500,height=500)
TextboxYmholiad.pack()
TextboxYmholiad.insert(tk.END, f"{Neges[0]}\n")

print(LefelMynediad)
if LefelMynediad=="Gyrwr":
    customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Red",
command=lambda: DriversHomePage(userid)).pack()
elif LefelMynediad=="Cwsmer":
    customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Red",
command=lambda: CustomerHomePage(userid)).pack()
elif LefelMynediad=="Derbynydd":

customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Red",command=l
ambda: ReceptionistHomePage(userid)).pack()

```

```

customtkinter.CTkButton(frame,text="Marcio fel Wedi
gweld",font=("Monaco",18),fg_color="Green",command=lambda:
MarcioFelWediGweld(userid,LefelMynediad,YmholiadId)).pack()

```

```

def DewisYmholiad(userid, LefelMynediad):
    for Widget in root.wininfo_children():
        Widget.destroy()

```

```

global IdYmholiadEntry
root.title("Dewis ymholiad Page")
frame = customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)
customtkinter.CTkLabel(frame, text="Ysgol Moduro Normansell", font=("Century Gothic",
45), text_color="White").pack()
customtkinter.CTkLabel(frame, text="Eich ymholiadau", font=("Roboto", 36),
text_color="White").pack()

```

```

# If the user who is viewing their bookings is a driver
if LefelMynediad == "Gyrrwr":
    print(f"USERID {userid}")
    # Select fields form the ymholiTable where the driverId = userid, because lefel
mynediad = driver
    YmholiCursor.execute("SELECT YmholiadID, Neges, CustomerID, ReceptionistID,
SentFrom FROM YmholiTable WHERE DriverID = ? AND Status = ? ", (userid, "Heb
Gweld"))
    Ymholiadau = YmholiCursor.fetchall()
    YmholiDataBase.commit()
    # Repeat through all records fetched
    if Ymholiadau:
        for i in range(len(Ymholiadau)):
            # Only go through records that aren't sent from driver
            if Ymholiadau[i][4] != "Gyrrwr":
                # If it was sent from a customer, select the customerid from the table to know
the name and surname of whoever sent
                if Ymholiadau[i][4] == "Cwsmer": # If SentFrom field = Cwsmer, then show
customerid
                    CustomerCursor.execute("SELECT Name, Surname, Username FROM
CustomersTable WHERE CustomerID = ?", (Ymholiadau[i][2],))
                    EnwCyfenwSentFrom = CustomerCursor.fetchall()
                    print(f"Sent from {EnwCyfenwSentFrom}")
                    customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}
Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}
Id Ymholiad : {Ymholiadau[i][0]}
"""), font=("Arial", 18), text_color="White").pack(pady=10)

```

```

        elif Ymholiadau[i][4] == "Derbynydd": # If SentFrom field = Cwsmer, then show
customerid
            ReceptionistCursor.execute("SELECT Name, Surname, Username FROM
ReceptionistTable WHERE ReceptionistID = ?", (Ymholiadau[i][3],))
            EnwCyfenwSentFrom = ReceptionistCursor.fetchall()
            print(f"Sent from {EnwCyfenwSentFrom}")
            customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}
            Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}
            Id Ymholiad : {Ymholiadau[i][0]}
            """), font=("Arial", 18), text_color="White").pack(pady=10)

```

```

            IdYmholiadEntry = customtkinter.CTkEntry(frame, placeholder_text="Id Ymholiad",
font=("Arial", 16), width=200, height=20)
            IdYmholiadEntry.pack(pady=20)
        else:
            customtkinter.CTkLabel(frame, text="Nad ydych efo unrhyw ymholiadau yn
anffodus", font=("Roboto", 36), text_color="Red").pack()

```

```

        elif LefelMynediad == "Cwsmer": # if lefel mynediad = cwsmer should have two if
statements for driver and receptionist users
            print(f"USERID {userid}")
            # Select fields form the ymholiTable where the driverId = userid, because lefel
mynediad = driver
            YmholiCursor.execute("SELECT YmholiadID, Neges, DriverID, ReceptionistID,
SentFrom FROM YmholiTable WHERE CustomerID = ? AND Status = ? AND SentFROM !=
? ", (userid, "Heb Gweld", "Cwsmer"))
            Ymholiadau = YmholiCursor.fetchall()
            YmholiDataBase.commit()
            print("HELOEFIEONR", Ymholiadau)
            # Repeat through all records fetched
            if Ymholiadau:
                for i in range(len(Ymholiadau)):
                    # Only go through records that aren't sent from driver
                    if Ymholiadau[i][4] != "Cwsmer":
                        print("IloveELVISPRESLEY")
                        # If it was sent from a customer, select the customerid from the table to know
the name and surname of whoever sent
                        if Ymholiadau[i][4] == "Gyrrwr": # If SentFrom field = Cwsmer, then show
customerid
                            DriverCursor.execute("SELECT Name, Surname, Username FROM
DriversTable WHERE DriversID = ?", (Ymholiadau[i][2],))
                            EnwCyfenwSentFrom = DriverCursor.fetchall()
                            print(f"Sent from {EnwCyfenwSentFrom}")
                            customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}

```

```

Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}
Id Ymholiad : {Ymholiadau[i][0]}
"""), font=("Arial", 18), text_color="White").pack(pady=10)

        elif Ymholiadau[i][4] == "Derbynydd": # If SentFrom field = Cwsmer, then show
customerid
            ReceptionistCursor.execute("SELECT Name, Surname, Username FROM
ReceptionistTable WHERE ReceptionistID = ?", (Ymholiadau[i][3],))
            EnwCyfenwSentFrom = ReceptionistCursor.fetchall()
            print(f"Sent from {EnwCyfenwSentFrom}")
            customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}
Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}
Id Ymholiad : {Ymholiadau[i][0]}
"""), font=("Arial", 18), text_color="White").pack(pady=10)
            IdYmholiadEntry = customtkinter.CTkEntry(frame, placeholder_text="Id
Ymholiad", font=("Arial", 16), width=200, height=20)
            IdYmholiadEntry.pack(pady=20)

        else:
            customtkinter.CTkLabel(frame, text="Nad ydych efo unrhyw ymholiadau yn
anffodus", font=("Roboto", 36), text_color="Red").pack()

    elif LefelMynediad=="Derbynydd":
        YmholiCursor.execute("SELECT YmholiadID, Neges, DriverID, CustomerID, SentFrom
FROM YmholiTable WHERE ReceptionistID = ? AND Status = ? AND SentFROM != ? ",
(userid, "Heb Gweld", "Derbynydd"))
        Ymholiadau = YmholiCursor.fetchall()
        YmholiDataBase.commit()
        print("HELOEFIEONR", Ymholiadau)

    # Repeat through all records fetched
    if Ymholiadau:
        for i in range(len(Ymholiadau)):
            # Only go through records that aren't sent from derbynydd
            if Ymholiadau[i][4] != "Derbynydd":
                print("IloveALEXTURNER")
                # If it was sent from a customer, select the customerid from the table to know
the name and surname of whoever sent
                if Ymholiadau[i][4] == "Gyrrwr": # If SentFrom field = Cwsmer, then show
customerid
                    DriverCursor.execute("SELECT Name, Surname, Username FROM
DriversTable WHERE DriversID = ?", (Ymholiadau[i][2],))
                    EnwCyfenwSentFrom = DriverCursor.fetchall()
                    print(f"Sent from {EnwCyfenwSentFrom}")
                    customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}
Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}

```



```

Id Ymholiad : {Ymholiadau[i][0]}
"""), font=("Arial", 18), text_color="White").pack(pady=10)

        elif Ymholiadau[i][4] == "Cwsmer": # If SentFrom field = Cwsmer, then show
customerid

            CustomerCursor.execute("SELECT Name, Surname, Username FROM
CustomersTable WHERE CustomerID = ?", (Ymholiadau[i][3],))
            EnwCyfenwSentFrom = CustomerCursor.fetchall()
            print(f"Sent from {EnwCyfenwSentFrom}")
            customtkinter.CTkLabel(frame, text=(f""Enw : {EnwCyfenwSentFrom[0][0]} ,
Cyfenw : {EnwCyfenwSentFrom[0][1]}
Enw Defnyddiwr : {EnwCyfenwSentFrom[0][2]}
Id Ymholiad : {Ymholiadau[0][0]}
"""), font=("Arial", 18), text_color="White").pack(pady=10)

            IdYmholiadEntry = customtkinter.CTkEntry(frame, placeholder_text="Id
Ymholiad", font=("Arial", 16), width=200, height=20)
            IdYmholiadEntry.pack(pady=20)

        else:
            customtkinter.CTkLabel(frame, text="Nad ydych efo unrhyw ymholiadau yn
anffodus", font=("Roboto", 36), text_color="Red").pack()

    if LefelMynediad=="Cwsmer":

        customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Green", comman
d=lambda: CustomerHomePage(userid)).pack()
        elif LefelMynediad=="Gyrrwr":

        customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Green", comman
d=lambda: DriversHomePage(userid)).pack()
        elif LefelMynediad=="Derbynydd":

        customtkinter.CTkButton(frame, text="Catref", font=("Monaco", 18), fg_color="Green", comman
d=lambda: ReceptionistHomePage(userid)).pack()

    def on_enter():
        GweldYmholiad(userid, LefelMynediad, EnwCyfenwSentFrom)

    EntryButton = customtkinter.CTkButton(frame, text="Enter", font=("Monaco", 18),
fg_color="Red", command=on_enter)
    EntryButton.pack(pady=10)

def GosodWediCyflawni(driverid, idBwciad):
    print(f"ID gyrrwr {driverid}")

```

```
print(f"Id bwciad {idBwciad}")
```

```
BookingsCursor.execute("SELECT BookingID , Date, CustomerID FROM BookingsTable  
WHERE Status = ? AND WediGorffen = ? AND BookingID = ?", ("Not  
Available","Na",idBwciad))  
BwciadauDiweddarau=BookingsCursor.fetchall()
```

```
if idBwciad=="":  
    messagebox.showinfo("Gwall","Rhaid mewnbynnu id Bwciad")  
    DiweddarauBwciad(driverid)  
    return
```

```
if BwciadauDiweddarau:  
    if BwciadauDiweddarau[0][0]==idBwciad:  
        BookingsCursor.execute("UPDATE BookingsTable SET WediGorffen = ? WHERE  
BookingID = ?",("Ydy",idBwciad))  
        bookingsdatabase.commit()  
        messagebox.showinfo("Diweddarau Bwciad","Wedi diweddarau")  
        DriversHomePage(driverid)  
    else:  
        messagebox.showinfo("Diweddarau Bwciad","Nid oes bwciad heb ei gorffen efo'r id  
bwciad yn bodoli")  
        return
```

```
def DiweddarauBwciad(driverid):  
    for Widget in root.winfo_children():  
        Widget.destroy()
```

```
root.title("Diweddarau bwciadau")  
frame=customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")  
frame.pack(fill="both", expand=True, padx=20, pady=20)
```

```
customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century  
Gothic",45),text_color="White").pack()  
customtkinter.CTkLabel(frame,text="Diweddarau  
bwciadau",font=("Roboto",36),text_color="White").pack()  
customtkinter.CTkLabel(frame,text="Mewnbynnwch id yr bwciad i gosod fel 'wedi cyflawni'  
",font=("Arial",18),text_color="White").pack()
```

```
BookingsCursor.execute("SELECT BookingID , Date, CustomerID FROM BookingsTable  
WHERE Status = ? AND WediGorffen = ? AND DriverID = ?", ("Not Available","Na",driverid))  
BwciadauDiweddarau=BookingsCursor.fetchall()
```

```
if BwciadauDiweddarau:  
    customtkinter.CTkLabel(frame,text="Eich  
bwciadau",font=("Roboto",24),text_color="White").pack()  
else:
```

```
customtkinter.CTkLabel(frame,text="Nad ydych efo unrhyw bwciadau sydd wedi marcio fel 'heb gorffen'",font=("Roboto",24),text_color="Red").pack(8)
```

```
for i in range(len(BwciadauDiweddaru)):
    CustomerCursor.execute("SELECT Name , Surname , Username FROM
CustomersTable WHERE CustomerID = ?",(BwciadauDiweddaru[i][2],))
    EnwCyfenwCwsmer=CustomerCursor.fetchall()
    CustomerDataBase.commit
    customtkinter.CTkLabel(frame,text=(f"" Id bwciad : {BwciadauDiweddaru[i][0]}
Dyddiad Bwciad : {BwciadauDiweddaru[i][1]}
Manylion Cwsmer : {EnwCyfenwCwsmer[0][0]} , {EnwCyfenwCwsmer[0][1]} ,
{EnwCyfenwCwsmer[0][2]}
"""),font=("Arial",14)).pack()
```

```
IdBwciadEntry=customtkinter.CTkEntry(frame,placeholder_text="Id
bwciad",font=("Arial",14))
IdBwciadEntry.pack()
```

```
BotwmDiweddaru=customtkinter.CTkButton(frame,text="Diweddaru",font=("Monaco",14),fg_
color="Red",command= lambda: GosodWediCyflawni(driverid,IdBwciadEntry.get()))
BotwmDiweddaru.pack()
```

```
BotwmCatref=customtkinter.CTkButton(frame,text="Catref",font=("Monaco",14),fg_color="Gr
een",command=lambda: DriversHomePage(driverid))
BotwmCatref.pack()
```

```
def DileuCwestiwnTheori(driverid,IdCwestiwn):
    if IdCwestiwn=="":
        messagebox.showinfo("Gwall","Rhaid mewnbynnu id cwestiwn i dileu")
        DewisCwestiwnDileu(driverid)
        return
    RevisionCursor.execute("SELECT RevisionID from RevisionTable WHERE RevisionID =
?",(IdCwestiwn,))
    IdCwestiwnDilys=RevisionCursor.fetchone()
    if IdCwestiwnDilys:
        pass
    else:
        messagebox.showinfo("Gwall","Nid oes cwestiwn theori i dileu sy'n cyfateb ir id wedi
mewnbynnu !")
        DewisCwestiwnDileu(driverid)
        return
```

```
RevisionCursor.execute("DELETE FROM RevisionTable WHERE RevisionID =
?",(IdCwestiwn,))
Revisiondatabase.commit()
messagebox.showinfo("Dileu Cwestiwn","Mae'r cwestiwn wedi cael ei dileu")
```

DriversHomePage(driverid)

def DewisCwestiwnDileu(driverid,Catogri):

RevisionCursor.execute("SELECT RevisionID , Question FROM RevisionTable WHERE
Catogry = ?",(Catogri,))

CwestiynnauldCatogri=RevisionCursor.fetchall()

print(CwestiynnauldCatogri)

for Widget in root.winfo_children():

Widget.destroy()

root.title("Dewis cwestiwn i dileu")

frame=customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")

frame.pack(fill="both", expand=True, padx=20, pady=20)

customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century
Gothic",36),text_color="White").pack()

customtkinter.CTkLabel(frame,text="Dewis cwestiwn i
dileu",font=("Roboto",18),text_color="White").pack()

BoxCwestiynnau=customtkinter.CTkTextbox(frame,width=750,height=400)

BoxCwestiynnau.pack()

for i in range (len(CwestiynnauldCatogri)):

BoxCwestiynnau.insert(tk.END, f"" ID : {CwestiynnauldCatogri[i][0]}

Cwestiwn : {CwestiynnauldCatogri[i][1]}\n""")

IdCwestiwnEntry=customtkinter.CTkEntry(frame,placeholder_text="Mewnbynnwch id yr
cwestiwn i dileu",font=("Arial",16))

IdCwestiwnEntry.pack()

BotwmDewis=customtkinter.CTkButton(frame,text="Dileu",font=("Monaco",18),fg_color="Green",command=lambda: DileuCwestiwnTheori(driverid,IdCwestiwnEntry.get()))

BotwmDewis.pack()

customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Red",command=lambda: DriversHomePage(driverid)).pack()

def DewisCatogriDileu (Driverid):

for Widget in root.winfo_children():

Widget.destroy()

```

root.title("Dewis catogri cwestiwn i dileu")

frame=customtkinter.CTkFrame(root, fg_color="#8692F5", bg_color="#8692F5")
frame.pack(fill="both", expand=True, padx=20, pady=20)

customtkinter.CTkLabel(frame,text="Ysgol Moduro Normansell",font=("Century Gothic",36),text_color="White").pack()

customtkinter.CTkLabel(frame,text="Mewnbynnwch catogri i dewis (Alertness, Awarness, Hazard Awarness neu Motorway rules)",font=("Roboto",20),text_color="White").pack()

CatogriComboBox=customtkinter.CTkComboBox(frame,values=["Alertness","Awarness","Hazard Awarness","Motorway rules"])
CatogriComboBox.pack(pady=25)

ButtonDewisCatogri=customtkinter.CTkButton(frame,text="Dewis",font=("Monaco",18),fg_color="Green",command=lambda: DewisCwestiwnDileu(Driverid,CatogriComboBox.get()))
ButtonDewisCatogri.pack(pady=25)

customtkinter.CTkButton(frame,text="Catref",font=("Monaco",18),fg_color="Red",command=lambda: DriversHomePage(Driverid)).pack(pady=25)

def DriversHomePage(driverid):
    DriverCursor.execute("SELECT Name FROM DriversTable WHERE DriversID = ?",(driverid))
    UserNameAndSurname=DriverCursor.fetchone()
    DriverDatabase.commit()

for Widget in root.winfo_children():
    Widget.destroy()

DriversHomePageElements=[["Label","Ysgol Moduro Normansell","Roboto",45,"White"],
    ["Label",f"Welcome {UserNameAndSurname[0]}", "Roboto",36,"White" ],
    ["Label","Beth hoffwch wneud","Arial",18,"White"],
    ["Button","Dyddiadur","Monaco",24,"Green",lambda:
DyddiadurGyrrwr(driverid)],
    ["Button","Bwciadau","Monaco",24,"Blue",lambda:
BwciadauGyrrwr(driverid)],
    ["Button","Diweddaru Bwciadau","Monaco",24,"Green",lambda:
DiweddaruBwciad(driverid)],
    ["Button","Ymholi","Monaco",24,"Blue",lambda:
CatrefYmholi(driverid,"Gyrrwr")],

```

```

        ["Button", "Gweld Ymholiadau", "Monaco", 24, "Green", lambda:
DewisYmholiad(driverid, "Gyrrwr")],
        ["Button", "Ffurflen Adolygu", "Monaco", 24, "Blue", lambda:
RevisionHome(driverid, "Gyrrwr")],
        ["Button", "Ychwanegu Cwestiynnau theori", "Monaco", 24, "Green", lambda:
YchwaneguCwestiynnauTheori(driverid)],
        ["Button", "Gweld Cwestiynnau theori", "Monaco", 24, "Blue", lambda:
GweldCwestiynnauTheori(driverid)],
        ["Button", "Dileu Cwestiynnau theori", "Monaco", 24, "Green", lambda:
DewisCatogriDileu(driverid)],
        ["Button", "Logio Allan", "Monaco", 24, "Red", lambda: LoginPage()]
    ]

    DriversHomePageWindow = MakeWindow(root, "DriversHomePage",
DriversHomePageElements)

```

```

def ArddangosCyfrifGyrrwyrCadarnhau():
    global CadarnhauCyfrifGyrrwyrPage
    DriverCursor.execute("SELECT Name ,Username, DriversID FROM DriversTable WHERE
Confirmed = ?", (0,))
    NamesAndIdToVerify=DriverCursor.fetchall()
    DriverDatabase.commit()
    print(NamesAndIdToVerify)
    CadarnhauCyfrifGyrrwyrPage.add_label_string("""Enw Gyrrwr    Enw-defnyddiwr Gyrrwr
ID gyrrwr
-----
""")
    for i in range (len(NamesAndIdToVerify)):
        DriverName=NamesAndIdToVerify[i][0]
        DriverUsername=NamesAndIdToVerify[i][1]
        DriverID=NamesAndIdToVerify[i][2]
        print(DriverName)
        print(DriverUsername)
        print(DriverID)
        CadarnhauCyfrifGyrrwyrPage.add_label_string(f"{DriverName}    {DriverUsername}
{DriverID}")

def CadarnhauGyrrwrID(ReceptionistID):
    global CadarnhauCyfrifGyrrwyrPage
    IdGyrrwrCadarnhau=CadarnhauCyfrifGyrrwyrPage.get_entry_value("ID Gyrrwr")
    if IdGyrrwrCadarnhau=="":
        messagebox.showinfo("Gwall", "Rhaid mewnbynnu id gyrrwr i dileu")
        DefnyddiwrIdDileu(ReceptionistID)
        return
    DriverCursor.execute("SELECT DriversID FROM DriversTable WHERE DriversID = ?",
(IdGyrrwrCadarnhau,))
    IdGyrrwrDilys=DriverCursor.fetchone()
    if IdGyrrwrDilys:
        pass

```

```

else:
    messagebox.showinfo("Gwall", "Nid yw gyrrwr yn bodoli efo'r id wedi mewnbynnu")
    DefnyddiwrIdDileu(ReceptionistID)
    return

DriverCursor.execute("UPDATE DriversTable SET Confirmed = ? WHERE
DriversID=?", (1, IdGyrrwrCadarnhau))
DriverDatabase.commit()

messagebox.showinfo("Llwyddiant", "Mae'r gyrrwr wedi cael ei cadarnhau")
ReceptionistHomePage(ReceptionistID)

def DefnyddiwrIdDileu(ReceptionistID):
    global DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage
    IdDefnyddiwrDileu = DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.get_entry_value("Id")
    IdDefnyddiwrDileu=str(IdDefnyddiwrDileu)
    LefelMynediad =
    DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.get_combo_value("Cwsmeriaid")

    if LefelMynediad == "Gyrrwyr":
        print("helo")
        DriverCursor.execute("DELETE FROM DriversTable WHERE DriversID = ?",
(IdDefnyddiwrDileu,))
        DriverDatabase.commit()
        messagebox.showinfo("Dileu Defnyddiwr", "Mae'r gyrrwr wedi cael ei dileu")
        ReceptionistHomePage(ReceptionistID)

    elif LefelMynediad == "Cwsmeriaid":
        print("goodbye")
        CustomerCursor.execute("DELETE FROM CustomersTable WHERE CustomerID = ?
", (IdDefnyddiwrDileu,))
        CustomerDataBase.commit()
        messagebox.showinfo("Dileu defnyddiwr", "Mae'r cwsmer wedi cael ei dileu")
        ReceptionistHomePage(ReceptionistID)

def CadarnhauCyfrifGyrrwyr(ReceptionistID):
    for Widget in root.winfo_children():
        Widget.destroy()

    CadarnhauCyfrifGyrrwyrPageElements=[["Label", "Ysgol Moduro Normansell", "Century
Gothic", 56, "White"],
["Label", "Cadarnhau Cyfrif Gyrrwyr", "Roboto", 36, "White"],
["Label", "Mewnbynnwch ID gyrrwr i cadarnhau
isod", "Arial", 18, "White"],
["EntryBox", "ID Gyrrwr", 200, 20],
["Button", "Cadarnhau", "Monaco", 24, "Green", lambda:
CadarnhauGyrrwrID(ReceptionistID)],

```

```

["Button", "Catref", "Monaco", 24, "Red", lambda:
ReceptionistHomePage(ReceptionistID)],

]

```

```

global CadarnhauCyfrifGyrrwyrPage
CadarnhauCyfrifGyrrwyrPage=MakeWindow(root,"Cadarnhau Cyfrif
Gyrrwyr",CadarnhauCyfrifGyrrwyrPageElements)
ArddangosCyfrifGyrrwyrCadarnhau()

```

```

def DewisLefelMynediadDiweddaru(ReceptionistID):
    global DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage

```

```

LefelMynediad=DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.get_combo_value("Gyrrwyr")
Enw=DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.get_entry_value("Mewnbynnwch
Enw yr defnyddiwr i dileu")
Cyfenw=DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.get_entry_value("Mewnbynnwch
Cyfenw yr defnyddiwr i dileu")

```

```

if Enw == "" and Cyfenw == "":
    messagebox.showinfo("Gwall", "Rhaid mewnbynnu enw ac cyfenw defnyddiwr i dileu")
    DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)
    return
elif Enw == "":
    messagebox.showinfo("Gwall", "Rhaid mewnbynnu enw defnyddiwr i dileu")
    DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)
    return
elif Cyfenw == "":
    messagebox.showinfo("Gwall", "Rhaid mewnbynnu cyfenw defnyddiwr i dileu")
    DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)
    return

```

```

if LefelMynediad=="Gyrrwyr":
    DriverCursor.execute("SELECT Name, Username, DriversID FROM DriversTable
WHERE Name = ? AND Surname = ?", (Enw, Cyfenw))
    AllDriversDetails=DriverCursor.fetchall()
    DriverDatabase.commit()
    if AllDriversDetails:
        for i in range (len(AllDriversDetails)):
            print(AllDriversDetails[i])
            DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.add_label_string(f""Enw:
{AllDriversDetails[i][0]}
Enw-defnyddiwr: {AllDriversDetails[i][1]}
DriverID: {AllDriversDetails[i][2]}
""")
    else:

```



```

        messagebox.showinfo("Gwall", "Nid oes gyrrwr yn bodoli efo'r enw ac cyfenw sydd
wedi mewnbynnu")
        DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)
        return

    elif LefelMynediad=="Cwsmeriaid":
        CustomerCursor.execute("SELECT Name , Username , CustomerID FROM
CustomersTable WHERE Name = ? AND Surname = ?", (Enw, Cyfenw))
        AllCustomerDetails=CustomerCursor.fetchall()
        CustomerDataBase.commit()
        if AllCustomerDetails:
            for i in range (len(AllCustomerDetails)):
                print(AllCustomerDetails[i])
                DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage.add_label_string(f""Enw:
{AllCustomerDetails[i][0]}
Enw-defnyddiwr: {AllCustomerDetails[i][1]}
CustomerID: {AllCustomerDetails[i][2]}
""")
            else:
                messagebox.showinfo("Gwall", "Nid oes cwsmer yn bodoli efo'r enw ac cyfenw sydd
wedi mewnbynnu")
                DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)
                return

```

#prints all names username and id of userse with selected lefel mynediad
#user inputs id of driver to delete from other functions with enter button and entrybox

```

def DiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID):
    for Widget in root.winfo_children():
        Widget.destroy()
    global DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage

    DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPageElements=[["Label", "Ysgol Moduro
Normansell", "Century Gothic", 56, "White"],
# ["Button", "Catref", "Monaco", 18, "Red", lambda:
ReceptionistHomePage(ReceptionistID)],
["Label", "DiweddaruCyfrifion", "Roboto", 36, "White"],
["Label", "Dewiwch Lefel mynediad yr defnyddiwr i
dileu", "Arial", 18, "White"],
["ComboBox", "Gyrrwyr", "Cwsmeriaid", ""],
["EntryBox", "Mewnbynnwch Enw yr defnyddiwr i
dileu", 300, 20],
["EntryBox", "Mewnbynnwch Cyfenw yr defnyddiwr i
dileu", 300, 20],
["Button", "Gweld", "Monaco", 18, "Green", lambda:
DewisLefelMynediadDiweddaruCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)],

```

```

dileu", "Arial", 18, "White"],
["Label", "Mewnbynnwch Id yr defnyddiwr i",
["EntryBox", "Id", 200, 20],
["Label", "Dewiswch lefel mynediad yr defnyddiwr i",
dileu", "Arial", 18, "White"],
["ComboBox", "Cwsmeriaid", "Gyrrwyr", ""],
["Button", "Enter", "Monaco", 18, "Green", lambda:
DefnyddiwrIdDileu(ReceptionistID)],
["Button", "Catref", "Monaco", 18, "Red", lambda:
ReceptionistHomePage(ReceptionistID)]
]

```

```

DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPage=MakeWindow(root,"Diweddaru
Cyfrifion",DiweddaruCyfrifionCwsmeriaidAcGyrrwyrPageElements)

```

```

def DiweddaruCredit(ReceptionistId):
    global DiweddaruCreditCwsmeriaidPage

```

```

    CustomerIdDiweddaru =
    DiweddaruCreditCwsmeriaidPage.get_entry_value("CustomerId")
    CreditDiweddaruCwsmer =
    DiweddaruCreditCwsmeriaidPage.get_entry_value("Mewnbynnwch faint o credit i
ychwanegu")

```

```

    CustomerCursor.execute("SELECT Credit FROM CustomersTable WHERE CustomerID =
?", (CustomerIdDiweddaru,))
    CurrentCustomerCredit = CustomerCursor.fetchone()
    CustomerDataBase.commit()

```

```

    if CurrentCustomerCredit is not None:
        # If CurrentCustomerCredit is not None, convert it to an integer and add it to
        CreditDiweddaruCwsmer
        CurrentCustomerCredit = int(CurrentCustomerCredit[0])
        CreditDiweddaruCwsmer = int(CreditDiweddaruCwsmer) + CurrentCustomerCredit
        print(CreditDiweddaruCwsmer)
    else:
        print("Customer not found or has no credit.")

```

```

    CustomerCursor.execute("UPDATE CustomersTable SET Credit = ? WHERE CustomerID
= ?",(CreditDiweddaruCwsmer,CustomerIdDiweddaru))
    CustomerDataBase.commit()
    messagebox.showinfo("Diweddaru Credit","Mae'r credit wedi cael ei diweddaru")
    ReceptionistHomePage(ReceptionistId)

```

```

def ManylionCwsmerDiweddaruCredit(ReceptionistID):
    global DiweddaruCreditCwsmeriaidPage

```

```
EnwCwsmer=DiweddaruCreditCwsmeriaidPage.get_entry_value("Enw Cwsmer")
CyfenwCwsmer=DiweddaruCreditCwsmeriaidPage.get_entry_value("Cyfenw Cwsmer")
```

```
CustomerCursor.execute("SELECT CustomerID , Username , Credit FROM
CustomersTable WHERE Name = ? AND Surname = ?",(EnwCwsmer,CyfenwCwsmer))
ManylionCwsmer=CustomerCursor.fetchall()
CustomerDataBase.commit()
```

```
for i in range (len(ManylionCwsmer)):
    DiweddaruCreditCwsmeriaidPage.add_label_string(f""Enw Cwsmer: {EnwCwsmer}
Cyfenw Cwsmer : {CyfenwCwsmer}
Id Cwsmer : {ManylionCwsmer[i][0]}
EnwDefnyddiwr : {ManylionCwsmer[i][1]}
Credit : {ManylionCwsmer[i][2]}
""")
```

```
def DiweddaruCreditCwsmeriaid(ReceptionistID):
    for Widget in root.wininfo_children():
        Widget.destroy()
    global DiweddaruCreditCwsmeriaidPage
```

```
    DiweddaruCreditCwsmeriaidElements=[["Label","Ysgol Moduro Normansell","Century
Gothic",54,"White"],
    ["Label","Diweddaru Credit Cwmseriaid ","Monaco",36,"white"],
    ["Label","Mewnbynnwch enw ac cyfenw yr cwsmer i diweddaru
credit","Arial",18,"White"],
    ["EntryBox","Enw Cwsmer",200,20],
    ["EntryBox","Cyfenw Cwsmer",200,20],
    ["Button","Gweld","Monaco",18,"Red",lambda:
ManylionCwsmerDiweddaruCredit(ReceptionistID)],
    ["Label","Mewnbynnwch CustomerId yr defnyddiwr i diweddaru
credit","Arial",18,"White"],
    ["EntryBox","CustomerId",200,20],
    ["EntryBox","Mewnbynnwch faint o credit i ychwanegu",300,20],
    ["Button","Diweddaru","Monaco",18,"Green",lambda:
DiweddaruCredit(ReceptionistID)],
    ["Button","Catref","Monaco",18,"Red",lambda:
ReceptionistHomePage(ReceptionistID)]
    ]
```

```
DiweddaruCreditCwsmeriaidPage=MakeWindow(root,"Diweddaru Credit
Cwsmeriaid",DiweddaruCreditCwsmeriaidElements)
```

```
def ReceptionistHomePage(ReceptionistID):
    for Widget in root.wininfo_children():
        Widget.destroy()
```

```

ReceptionistCursor.execute("SELECT Name FROM ReceptionistTable WHERE
ReceptionistID = ?",(ReceptionistID,))
ReceptionistName=ReceptionistCursor.fetchone()
ReceptionistDataBase.commit()

ReceptionistHomePage_Elements=[["Label","Ysgol Moduro Normansell","Century
Gothic",56,"White"],
                                ["Label","Croeso {ReceptionistName[0]}", "Roboto",36,"White"],
                                ["Label","Beth hoffwch wneud ?", "Arial",18,"White"],
                                ["Button","Cadarnhau cyfrif gyrrwyr","Monaco",36,"Blue",lambda:
CadarnhauCyfrifGyrrwyr(ReceptionistID)],
                                ["Button","Diweddarau Credit
cwsmeriaid","Monaco",36,"Green",lambda: DiweddarauCreditCwsmeriaid(ReceptionistID)],
                                ["Button","Diweddarau cyfrifion cwsmeriaid ac
gyrrwyr","Monaco",36,"Blue",lambda:
DiweddarauCyfrifionCwsmeriaidAcGyrrwyr(ReceptionistID)],
                                ["Button","Gweld Ymholidau","Monaco",36,"Green",lambda:
DewisYmholiad(ReceptionistID,"Derbynydd")],
                                ["Button","Ymholi","Monaco",36,"Green",lambda:
CatrefYmholi(ReceptionistID,"Derbynydd")],
                                ["Button","Logio Allan","Monaco",36,"Red",lambda: LoginPage()]]

]

```

```

ReceptionistHomePage_ =MakeWindow(root,"Catref
derbynydd",ReceptionistHomePage_Elements)

```

```

def AccountLoginCheck():
    global LoginPageWindow

```

```

#uses function get_entry_values with instance of class LoginPageWindow in , uses
'username' as is placeholder text to the entry box in order to
#get the input ('Username' : userinput)
    username = LoginPageWindow.get_entry_value("Username")
    password = LoginPageWindow.get_entry_value("Password")
    EntryLevel = LoginPageWindow.get_combo_value("Driver")
    for widget in root.winfo_children():
        widget.destroy()

    #LoginPage(root)
    if EntryLevel=="Customer":
#dewis customerId ac enw ar sail confod lle mae maes Username yn cyfateb ir
enw-defnyddiwr wedi mewnbynnu
#dewis oddia ar tabl cwsmeriaid oherwydd dewir defnyddiwr lefel mynediad cwsmeriaid
    CustomerCursor.execute("SELECT CustomerID, Name FROM CustomersTable
WHERE Username = ? ", (username,))
    UsernameCustomerLogIn=CustomerCursor.fetchone()

```

#dewis customerid ac enw yn y confod lle mae maes password yn cyfateb i'r password wedi mewnbynnu gan yr defnyddiwr

```
CustomerCursor.execute("SELECT CustomerID , Name FROM CustomersTable  
WHERE Password = ?",(password,))
```

```
passwordCustomerLogIn=CustomerCursor.fetchone()
```

```
CustomerDataBase.commit()
```

#dewis ar sail username ac password er mwyn gweld os mae username mae'r defnyddiwr wedi mewnbynnu yn bodoli ar tabl cwsmeraidi ac felly yn cyfateb i cyfrif cwsmer

#Gellir hefyd weld os mae'r cyfrinair yn cyfateb ac felly gellir rhoi neges gwall fwy penodol i'r defnyddiwr wrth dilysu'r enghraifft os oes cofnod yn bodoli lle mae'r enwdefnyddiwr yn cyfateb ond nad oes cofnod yn bodoli lle mae cyfrinair yn cyfateb mae'r cyfrinair yn anghywir felly gellir rhoi neges gwall penodol yn adrodd fod cyfrinair yn anghywir

#os oes customerid ac enw wedi darganfod ar sail mewnbwn defnyddiwr ar gyfer enw-defnyddiwr

```
if UsernameCustomerLogIn:
```

#os oes customer id ac enw hefyd wedi darganfod ar sail mewnbwn defnyddiwr ar gyfer cyfrinair rydym yn gwybod fod cyfrif yn bodoli efo enw defnyddiwr ac cyfrinair wedi mewnbynnu ac felly gellir galw ffrwythiant er mwyn dangos ffurflen catref i'r cwsmer

```
if passwordCustomerLogIn:
```

```
messagebox.showinfo("Llwyddiant",f"Croeso {UsernameCustomerLogIn[1]}")
```

```
customerid=UsernameCustomerLogIn[0]
```

```
CustomerHomePage(customerid)
```

```
else:
```

#os oes customer id ac enw wedi darganfod ar sail maes username ond nid ar sail yr cyfrinair rydym yn gwybod fod defnyddiwr yn bodoli efo yr enwdefnyddiwr ond nad yw'r cyfrinair wedi mewnbynnu yn cyfateb i'r cyfrif yr lefel mynediad

```
messagebox.showinfo("Gwall","Mae cwsmer yn bodoli efo enw defnyddiwr , nid  
yw'r cyfrinair yn cyfateb")
```

```
LoginPage()
```

#os yw customer id ac enw wedi darganfod ar sail cyfrinair ac felly mae'r cyfrinair yn cyfateb i cyfrinair cyfrif cwsmer

```
elif passwordCustomerLogIn:
```

```
if UsernameCustomerLogIn:
```

```
pass
```

#os nad yw'r enw defnyddiwr yn cyfateb i cyfrif cwsmer ond mae'r cyfrinair yn rydym yn gwybod fod enw defnyddiwr yn anghywir ac gellir rhoi neges gwall penodol

```
else:
```

```
messagebox.showinfo("Gwall","Mae cwsmer efo yr cyfrinair yn bodoli , nid yw'r  
enw defnyddiwr yn cyfateb ")
```

```
LoginPage()
```

```
else:
```

```
messagebox.showinfo("Gwall","Nid yw defnyddiwr yn bodoli efo manylion sydd wedi  
mewnbynnu")
```

```
LoginPage()
```

```
elif EntryLevel=="Driver":
```

```
DriverCursor.execute("SELECT DriversID, Name , Confirmed FROM DriversTable  
WHERE Username = ? ", (username,))
```

```
UsernameDriverLogIn=DriverCursor.fetchone()
```

```
#dewis customerid ac enw yn y confod lle mae maes password yn cyfateb ir password wedi  
mewnbynnu gan yr defnyddiwr
```

```
DriverCursor.execute("SELECT DriversID , Name , Confirmed FROM DriversTable  
WHERE Password = ?",(password,))
```

```
passwordDriverLogIn=DriverCursor.fetchone()
```

```
CustomerDataBase.commit()
```

```
#dewis ar sail username ac password er mwyn gweld os mae username mae'r defnyddiwr  
wedi mewnbynnu yn bodoli ar tabl cwsmeraidi ac felly yn cyfateb i cyfrif cwsmer
```

```
#Gellir hefyd weld os mae'r cyfrinair yn cyfateb ac felly gellir rhoi neges gwall fwy penodol ir  
defnyddiwr wrth dilysu er enghraifft os oes cofnod yn bodoli lle mae'r enwdefnyddiwr yn  
cyfateb ond nad oes cofnod yn bodoli lel mae cyfrinair yn cyfateb mae'r cyfrinair yn anghywir  
felly gellir rhoi neeges gwall penodol yn adrodd fod cyfrinair yn anghywir
```

```
#os oes customerid ac enw wedi darganfod ar sail mewnbwn defnyddiwr ar gyfer  
enw-defnyddiwr
```

```
if UsernameDriverLogIn:
```

```
#os oes customer id ac enw hefyd wedi darganfod ar sail mewnbwn defnyddiwr ar gyfer  
cyfrinair rydym yn gwybod fod cyfrif yn bodoli efo enw defnyddiwr ac cyfrinair wed  
imewnbynnu ac felly gellir galw ffrwythiant er mwyn dangos ffurflen catref ir cwsmer
```

```
if passwordDriverLogIn:
```

```
    #os nad ywr cyfrif gyrrwr wedi cadarnhau
```

```
    print(UsernameDriverLogIn[2])
```

```
    if int(UsernameDriverLogIn[2]) ==1:
```

```
        pass
```

```
    else:
```

```
        messagebox.showinfo("Gwall","Rhaid aros ir cyfrif cael ei cadarnhau gan yr  
derbynydd")
```

```
        LoginPage()
```

```
        return
```

```
    # if UsernameDriverLogIn[2]
```

```
        messagebox.showinfo("Llwyddiant","Croeso {UsernameDriverLogIn[1]}")
```

```
        DriverID=UsernameDriverLogIn[0]
```

```
        DriversHomePage(DriverID)
```

```
    else:
```

```
#os oes customer id ac enw wedi darganfod ar sail maes username ond nid ar sail yr  
cyfrinair rydym yn gwybod fod denfyddiwr yn bodoli efo yr enwdefnyddiwr ond nad yw'r  
cyfrinair wedi mewnbynnu yn cyfateb ir cyfrif yr lefel mynediad
```

```
    messagebox.showinfo("Gwall","Mae gyrrwr yn bodoli efo enw defnyddiwr , nid yw'r  
cyfrinair yn cyfateb")
```

```
    LoginPage()
```

```
#os yw customer id ac enw wedi darganfod ar sail cyfrinair ac felly mae'r cyfrinair yn cyfayeb  
i cyfrinair cyfrif cwsmer
```

```
    elif passwordDriverLogIn:
```

```

        if UsernameDriverLogIn:
            pass
#os nad yw'r enw denfyddiwr yn cyfateb i cyfrif cwsmer ond mae'r cyfrinair yn rydym yn
gwybod fod enw denfyddiwr yn anghywir ac gellir rhoi negs gwall penodol
        else:
            messagebox.showinfo("Gwall", "Mae gyrrwr efo yr cyfrinair yn bodoli , nid yw'r enw
defnyddiwr yn cyfateb ")
            LoginPage()
        else:
            messagebox.showinfo("Gwall", "Nid yw gyrrwr yn bodoli efo manylion sydd wedi
mewnbynnu")
            LoginPage()

elif EntryLevel=="Receptionist":
    ReceptionistCursor.execute("SELECT ReceptionistID, Name FROM ReceptionistTable
WHERE Username = ? AND Password = ?", (username, password,))
    ReceptionistLogin=ReceptionistCursor.fetchone()
    ReceptionistDataBase.commit()
    if ReceptionistLogin:
        messagebox.showinfo("welcome", f"Welcome {ReceptionistLogin[1]}")
        print(ReceptionistLogin[1])
        # Call CustomerHomePage function
        ReceptionistHomePage(ReceptionistLogin[0][0])
    else:
        messagebox.showinfo("Error", "Customer with those details doesnt exist , please try
again or create a account !")
        LoginPage()

```

```

def clear(DictRefrence):
    global CreateAccountWindow
    EntryBoxChange=CreateAccountWindow.get_entry_box(DictRefrence)

```

```

def ForgotPasswordCheck():
    global ForgotPasswordPage
    Username=ForgotPasswordPage.get_entry_value("Username")
    Entrylevel=ForgotPasswordPage.get_combo_value("Driver")
    SelectedQuestion=ForgotPasswordPage.get_combo_value("Beth yw enw eich hoff film?")
    UsersAnswer=ForgotPasswordPage.get_entry_value("Eich Ateb")

    NewPassword = ForgotPasswordPage.get_entry_value("Password")

    if Username=="" or UsersAnswer=="" or NewPassword=="":
        messagebox.showinfo("Gwall", "Rhaid mewnbynnu data ir holl meysydd")

```

```

return

if len(NewPassword)<12:
    messagebox.showinfo("Gwall","Rhaid ir cyfrinair cynnwys o leiaf 12 cymeriad")
    return
digitCount = 0
SpecialCharacterCount = 0

for item in NewPassword:
    if item.isdigit()==True:
        digitCount+=1
for item in NewPassword:
    if item in special_characters:
        SpecialCharacterCount+=1

if digitCount<3:
    messagebox.showinfo("Gwall","Rhaid cynnwys o leiaf tair digid yn yr cyfrinair newydd")
    return
if SpecialCharacterCount<2:
    messagebox.showinfo("Gwall","Rhaid cynnwys oleiaf dau cymeriad arbennig yn yr
cyfrinair newydd")
    return


if Entrylevel == "Customer":
    CustomerCursor.execute("SELECT CustomerID FROM CustomersTable WHERE
Username = ? ", (Username, ))
    CustomerIdForgotPassword = CustomerCursor.fetchone()
    CustomerDataBase.commit()
    if CustomerIdForgotPassword:
        CustomerIdForgotPassword = CustomerIdForgotPassword[0]
    else:
        messagebox.showinfo("Gwall","Nid oes cwsmer yn bodoli efo'r enw defnyddiwr wedi
mewnbynu ")
        return


    CustomerCursor.execute("SELECT CwestiwnGwireddu, AtebGwireddu FROM
CustomersTable WHERE CustomerID = ?", (CustomerIdForgotPassword,))
    CwestiwnAcAtebGwireddu = CustomerCursor.fetchall()
    CustomerDataBase.commit()
    CwestiwnGwireddu=CwestiwnAcAtebGwireddu[0][0]
    AtebGwireddu=CwestiwnAcAtebGwireddu[0][1]

    if SelectedQuestion!=CwestiwnGwireddu:
        messagebox.showinfo("Gwall","Mae'r cwestiwn sydd wedi cael ei dewis ddim yn
cyfateb ir cwestiwn rydych wedi dewis wrth creu cyfrif")
        elif SelectedQuestion==CwestiwnGwireddu and UsersAnswer!=AtebGwireddu:

```



```
messagebox.showinfo("Gwall","Nid ydych wedi mewnbynnu yr ateb cywir ir cwestiwn gwireddu")
```

```
else:
```

```
CustomerCursor.execute("UPDATE CustomersTable SET Password = ? WHERE CustomerID = ?",(NewPassword,CustomerIdForgotPassword))
```

```
CustomerDataBase.commit()
```

```
messagebox.showinfo("Llwyddiant","mae eich cyfrianir newydd wedi osod ")
```

```
LoginPage()
```

```
elif Entrylevel == "Driver":
```

```
DriverCursor.execute("SELECT DriversID FROM DriversTable WHERE Username = ?",(Username,))
```

```
DriverIdForgotPassword = DriverCursor.fetchone()
```

```
DriverDatabase.commit() # Assuming it should be DriverDataBase instead of DriverDatabase
```

```
if DriverIdForgotPassword:
```

```
DriverIdForgotPassword=DriverIdForgotPassword[0]
```

```
else:
```

```
messagebox.showinfo("Gwall","Nad oes gyrrwr yn bodoli efo enw defnyddiwr wedi mewnbynnu ")
```

```
DriverCursor.execute("SELECT CwestiwnGwireddu, AtebGwireddu FROM DriversTable WHERE DriversID = ?", (DriverIdForgotPassword,))
```

```
CwestiwnAcAtebGwireddu = DriverCursor.fetchall()
```

```
CustomerDataBase.commit()
```

```
CwestiwnGwireddu=CwestiwnAcAtebGwireddu[0][0]
```

```
AtebGwireddu=CwestiwnAcAtebGwireddu[0][1]
```

```
if SelectedQuestion!=CwestiwnGwireddu:
```

```
messagebox.showinfo("Gwall","Mae'r cwestiwn sydd wedi cael ei dewis ddim yn cyfateb ir cwestiwn rydych wedi dewis wrth creu cyfrif")
```

```
elif SelectedQuestion==CwestiwnGwireddu and UsersAnswer!=AtebGwireddu:
```

```
messagebox.showinfo("Gwall","Nid ydych wedi mewnbynnu yr ateb cywir ir cwestiwn gwireddu")
```

```
else:
```

```
DriverCursor.execute("UPDATE DriversTable SET Password = ? WHERE DriversID = ?",(NewPassword,DriverIdForgotPassword))
```

```
DriverDatabase.commit()
```

```
messagebox.showinfo("Llwyddiant","mae eich cyfrianir newydd wedi osod ")
```

```
LoginPage()
```

```
elif Entrylevel=="Receptionist":
```

```
ReceptionistCursor.execute("SELECT ReceptionistID FROM ReceptionistTable WHERE Username = ?", (Username,))
```

```
ReceptionistIdForgotPassword = ReceptionistCursor.fetchone()
```

```
ReceptionistDataBase.commit() # Assuming it should be DriverDataBase instead of
DriverDatabase
```

```
ReceptionistIdForgotPassword=ReceptionistIdForgotPassword[0]
```

```
ReceptionistCursor.execute("SELECT CwestiwnGwireddu, AtebGwireddu FROM
ReceptionistTable WHERE ReceptionistID = ?", (ReceptionistIdForgotPassword,))
```

```
CwestiwnAcAtebGwireddu = ReceptionistCursor.fetchall()
```

```
ReceptionistDataBase.commit()
```

```
CwestiwnGwireddu=CwestiwnAcAtebGwireddu[0][0]
```

```
AtebGwireddu=CwestiwnAcAtebGwireddu[0][1]
```

```
if SelectedQuestion!=CwestiwnGwireddu:
```

```
    messagebox.showinfo("Error","Mae'r cwestiwn sydd wedi cael ei dewis ddim yn
cyfateb ir cwestiwn rydych wedi dewis wrth creu cyfrif")
```

```
elif SelectedQuestion==CwestiwnGwireddu and UsersAnswer!=AtebGwireddu:
```

```
    messagebox.showinfo("Error","Nid ydych wedi mewnbynnu yr ateb cywir ir cwestiwn
gwireddu")
```

```
else:
```

```
    ReceptionistCursor.execute("UPDATE ReceptionistTable SET Password = ? WHERE
ReceptionistID = ? ",(NewPassword,ReceptionistIdForgotPassword))
```

```
    ReceptionistDataBase.commit()
```

```
    messagebox.showinfo("Success","Your new password has been set")
```

```
    LoginPage()
```

```
def ForgotPassword():
```

```
    global LoginPageWindow
```

```
    global ForgotPasswordPage
```

```
    for Widget in root.winfo_children():
```

```
        Widget.destroy()
```

```
    ForgotPasswordElements=[["Label","Ysgol Moduro Normansell","Century
Gothic",56,"White"],
```

```
        ["Label","Mewnbynnwch eich manylion presennol","Arial",18,"White"],
```

```
        ["EntryBox","Username",200,30],
```

```
        ["ComboBox","Driver","Customer","Receptionist"],
```

```
        ["Label","Mewnbynnwch cyfrinair newydd","Arial",18,"White"],
```

```
        ["EntryBox","Password",200,30],
```

```
        ["Label","Dewiwch yr cwestiwn gwireddu rydych wedi osod ai
ateb","Arial",18,"White"],
```

```
        ["ComboBox","Beth yw enw eich hoff film?","Beth yw enw eich anifail
anwes cyntaf ?","Yn pa dinas cawsoch eich geni ? "],
```

```
        ["EntryBox","Eich Ateb",500,50],
```

```
        ["Button","Enter","Monaco",18,"#DF5836",lambda:
```

```
ForgotPasswordCheck()],
```

```
        ["Button","Catref","Monaco",18,"Red",lambda: LoginPage()])
```

]

```
ForgotPasswordPage=MakeWindow(root,"Tudalen Ailosod  
Cyfrinair",ForgotPasswordElements)
```

```
LoginPageElements = [{"Label", "LoginPage", "Century Gothic", 56, "white"},  
    [{"Label", "Please fill your account details in below", "Arial", 18, "White"},  
    [{"EntryBox", "Username", 200, 30},  
    [{"EntryBox", "Password", 200, 30},  
    [{"ComboBox", "Driver", "Customer", "Receptionist"},  
    [{"Button", "Enter", "Monaco", 16, "green", AccountLoginCheck},  
    [{"Button", "Forgot Password", "Monaco", 18, "#DF5836", ForgotPassword},  
    [{"Button", "Create Account", "Monaco", 18, "#DF5836", CreateAccount},  
    ]
```

```
def LoginPage():  
    global LoginPageWindow  
    #cael gwared or holl ffurflenni sydd yn cael ei arddangos yn presennol er mwyn sicrhau  
    fod ond yr ffurflen hyn yn cael ei arddangos  
    for Widget in root.winfo_children():  
        Widget.destroy()  
    #Creu ystod or dosbarth makewindow pasio paramedrau er mwyn creu tudalen newydd ,  
    fydd yr paramederau yn cael ei defnyddio er mwyn ychwanegu eiconau at ffurflen newydd  
    LoginPageWindow = MakeWindow(root, "Ffurflen Logio i mewn ", LoginPageElements)  
  
    #galw ffrwythiant login page er mwyn cychwyn yr rhaglen , fydd ffurflen logio yn yr ffurflen  
    cyntaf i cael ei arddangos ac yn cysylltu a ffurflenni eraill er mwyn llywio trwy yr rhaglen  
    LoginPage()  
  
root.mainloop()
```

Feil MakeWindowClass -

```
from tkinter import *  
import tkinter as tk  
import customtkinter  
  
class MakeWindow:  
    def __init__(self, root, Title, elements, width=750, height=1000,):  
        self.root = root  
        self.root.title(Title)  
        self.root.geometry(f"{height}x{width}")
```

```

        self.frame = customtkinter.CTkFrame(root, fg_color="#8692F5",
bg_color="#8692F5")
        self.frame.pack(fill="both", expand=True, padx=20, pady=20)

#creates a dictionary to store refrence to entry box and text stored in
entry box , for example if "hello" is entered into entry box with
#placeholder text 'Username' , dictionary will store 'Username' :
'hello'

        self.entry_boxes = {}

        for i in range(len(elements)):
            if elements[i][0] == "Label":
                customtkinter.CTkLabel(self.frame, text=elements[i][1],
font=(elements[i][2], elements[i][3]),
text_color=elements[i][4]).pack(pady=10)

                elif elements[i][0] == "Button":
                    function = elements[i][5]
                    customtkinter.CTkButton(self.frame,
text=elements[i][1], font=(elements[i][2], elements[i][3]),
fg_color=elements[i][4], command=function).pack(pady=10)

                    elif elements[i][0] == "EntryBox":
                        entry = customtkinter.CTkEntry(self.frame,
placeholder_text=(elements[i][1]), width=(elements[i][2]),
height=(elements[i][3]))
                        entry.pack()
                        # Store reference to entry widget
                        self.entry_boxes[elements[i][1]] = entry

                        elif elements[i][0] == "ComboBox":
                            Combo = customtkinter.CTkComboBox(self.frame,
values=[elements[i][1], elements[i][2], elements[i][3]])
                            Combo.pack()
                            # Store reference to ComboBox widget
                            self.entry_boxes[elements[i][1]] = Combo

                            elif elements[i][0] == "TextBox":
                                TextBox=customtkinter.CTkTextbox(self.frame,width=elements[i][1],height
=elements[i][2],state=elements[i][3])
                                TextBox.pack()

```

```

        self.entry_boxes[elements[i][1]] = TextBox

#function that fetches whatever is stored in a dictionary be using the
#refrence to the placeholder text as a parameter
    def get_entry_value(self, name):
        if name in self.entry_boxes:
            entry_value = self.entry_boxes[name].get()
            print(entry_value)

            return(entry_value)

    def get_combo_value(self, name):
        if name in self.entry_boxes:
            # Access the ComboBox object using the key and get its
value
            combo_box_value = self.entry_boxes[name].get()
            print(combo_box_value)
            return combo_box_value

#def Insert_TextBox(self,name,value):

#    self.entry_boxes[name].insert(value)
#    print(self.entry_boxes[name].get())
#    return

    def add_label(self, text, size=18):
        for item in text:
            label = customtkinter.CTkLabel(self.frame, text=item,
font=("Arial", size))
            label.pack(pady=10, padx=10, anchor='center', side='top',
fill='both')

    def add_label_string(self, text, size=18):
        label = customtkinter.CTkLabel(self.frame, text=text,
font=("Arial", size))
        label.pack(pady=10, padx=10, anchor='center', side='top',
fill='both')

    def Messages(self, text):
        TextBox = customtkinter.CTkTextbox(self.frame)
        TextBox.pack()
        TextBox.insert(text=text)

```

