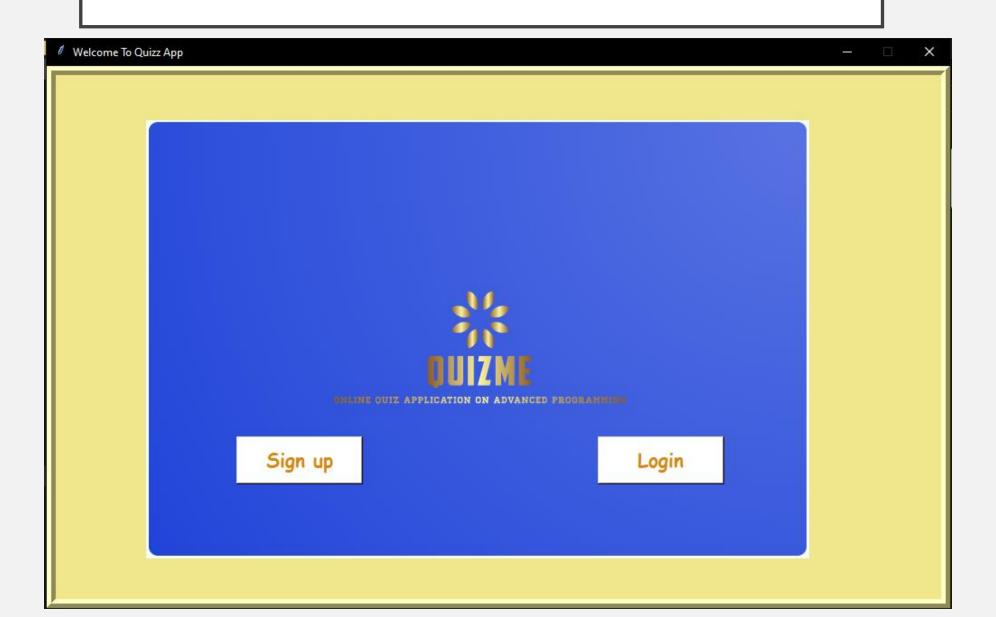
QUIZME ONLINE QUIZ APPLICATION



MODULES USED FOR THE QUIZ APPLICATION

According to our programming project our main task was to build a python-based GUI Quiz application. Basically, it was developed to ask multiple-choice questions from the user and collect user answers and finally display the results. We use different modules and methods and, we used python classes for the whole project development.

tkinter module

Used to create the graphical user interface of the application

random module

Used to shuffle the questions from question collection

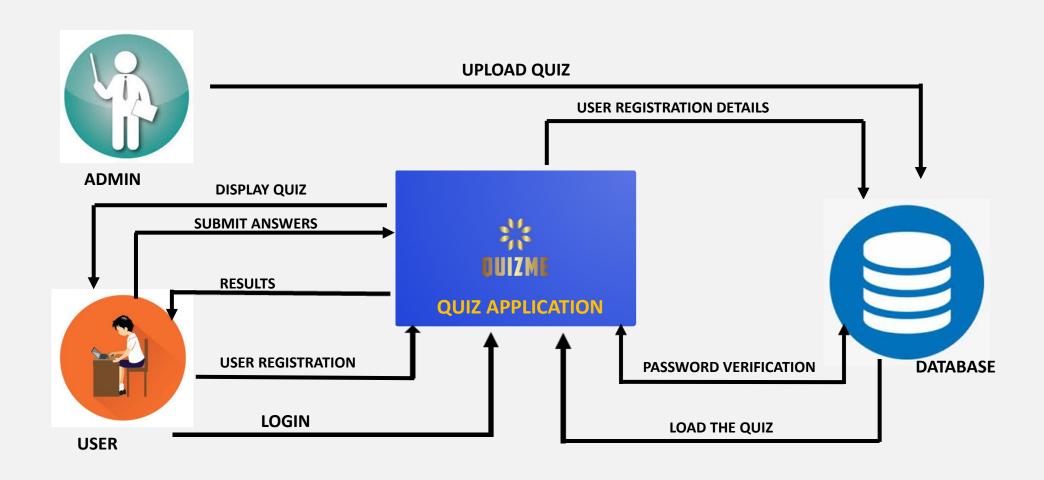
mysql.connector

This is a standardized database driver for python platforms and development. It enables python programs to access MySQL databases.

csv module

Used to retrieve data from spreadsheet files (Microsoft excel)

SYSTEM ARCHITECTURE



INTERFACE DESIGNING PYTHON CODE

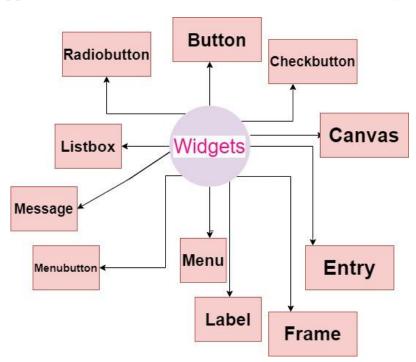
Tkinter module

Tkinter Programming

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

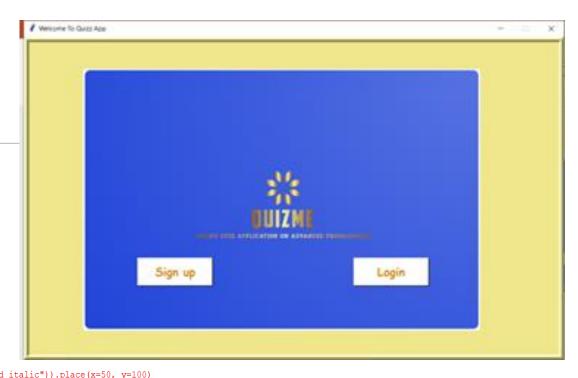
Tkinter Widgets

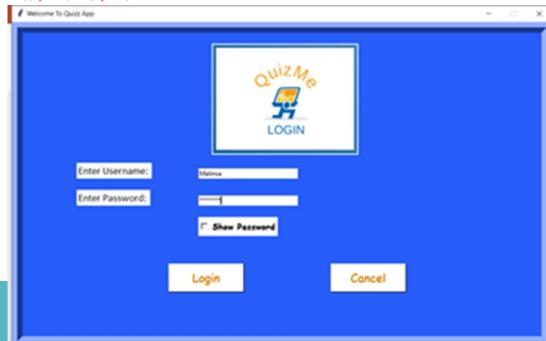
Tkinter provides various controls, such as buttons, labels and text boxes used in a GUI application. These controls are commonly called widgets.



MAIN WINDOW

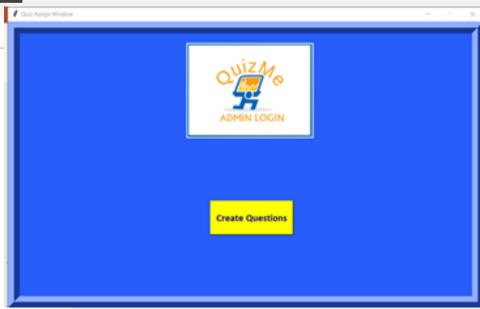
```
citanes is an a secure times absent families forms
File Edit Format Run Options Window Help
####First Window
class MainWindow:
    def init (self, mainWin):
        self.mainWin = mainWin
        self.mainWin.geometry("1000x600+0+0")
        self.mainWin.title("Welcome To Quizz App")
        self.mainWin.config(bg="white")
        f = Frame(self.mainWin, height=800, width=1000, bg="#F0E68C", relief="ridge", bd=10)
        f.propagate(0)
        f.pack()
        #insert photo into main window
        self.mainphoto = PhotoImage(file="QMe2.png")
        frontimg = Label(f, image=self.mainphoto, bg="azure")
        frontimg.place(x=100, y=50)
        #self.mainTitle = Label(f, text="QUIZ ME", fq="Blue", bq="white", font=("Calibri",50, "bold")).place(
        #self.mainTitle=label2(f, text="Online Quiz Application in Python Programming", fg="Blue", font=("Calibri", 30, "bold italic")).place(x=50, y=100)
        #fg - font color bg- backgroud color
        #call signup window
        self.sign = Button(f, text="Sign up", width=10, height=1, fg="#D68910", bg="white",
                           font=("Comic Sans MS",16, "bold"), command=self.c reg)
        #call login window
        self.login = Button(f, text="Login", width=10, height=1, fg="#D68910", bg="white",
                            font=("Comic Sans MS", 16, "bold"), command=self.c login)
        self.sign.place(x=200, y=400)
        self.login.place(x=600, y=400)
        #self.sign.pack(ipadx=5,ipady=5)
#Sign up method
    def c reg(self):
        self.newWindow = Toplevel(self.mainWin)
        self.newWindow.resizable(0, 0)
        self.app = Register(self.newWindow)
#login method
    def c login(self):
        self.login = Toplevel(self.mainWin)
        self.login.resizable(0, 0)
        self.log = Login(self.login)
****************
```





USER LOGIN AND ADMINISTRATOR LOGIN

```
Quiz.py - C:\Users\ASUS\Desktop\final System\Quiz.py (3.8.0)
File Edit Format Run Options Window Help
*********
########### Sign In Window
                                 ********************
class Register:
   def init (self, mainWin):
       global mReg
       mReg = mainWin
       self.mainWin= mainWin
       self.mainWin.geometry("1000x600+0+0")
       self.mainWin.title("Sign up Window")
       self.mainWin.config(bg="white")
       global f1
       f1 = Frame(self.mainWin, height=800, width=1000, bg="#275DF8", relief="ridge", bd=20)
       f1.propagate(0)
       f1.pack()
       self.mainphoto1 = PhotoImage(file="QMesignin.png")
       frontimg = Label(f1, image=self.mainphoto1, bg="azure")
       frontimg.place(x=400, y=100)
       self.radio var=IntVar()
       self.radio var.set(2)
       self.mainTitle = Label(f1, text="Sign In", bg="white",fg="Blue",
                             font=("calibri", 30, "bold")).place(x=250, y=10)
       self.name = Label(f1, text="First Name ", bq="white", font=("calibri", 16))
       self.lname = Label(f1, text="Last name ", bg="white", font=("calibri", 16))
       self.email = Label(f1, text="Email", bg="white", font=("calibri", 16))
       self.uname = Label(f1, text="Username", bg="white", font=("calibri", 16))
       self.pw = Label(f1, text="Password", bg="white", font=("calibri", 16))
       self.utype=Label(f1,text="User Type", bq="white", font=("calibri", 16))
       self.rb1=Radiobutton(f1,text="Admin User", variable=self.radio var, value=1,bg="white", font=("calibri", 16,"bold"))
       self.rb2=Radiobutton(f1,text="User
                                              ", variable=self.radio var, value=2,bg="white", font=("calibri", 16,"bold"))
       self.var = IntVar()
       self.tname = Entry(f1,width=30)
       self.tlname = Entry(f1, width=30)
       self.temail = Entry(f1, width=30)
       self.tuname = Entry(f1, width=30)
       self.tpw = Entry(f1, width=30, show="*")
       self.submit = Button(f1, text="Submit", width=12, height=1, fg="#D68910", bg="white",
                            font=("comic sans MS", 16, "bold"), command=self.c submit)
       self.cancel = Button(f1, text="Cancel", width=12, height=1, fg="#D68910", bg="white",
                            font=("comic sans MS", 16, "bold"), command=self.c cancel)
```

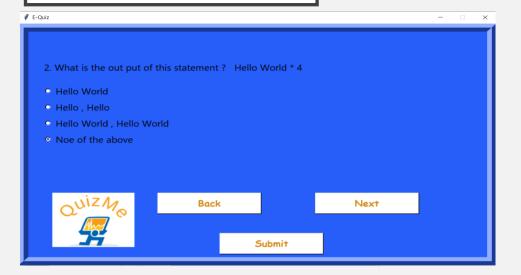




START QUIZ WINDOW



QUIZ WINDOW



```
##### Normal User Quiz window #####
class Account:
   def init (self, mainWin, u ):
       global mAcc
       self.u = u
       self.mainWin = mainWin
       mAcc = mainWin
       self.mainWin.geometry("1000x600+0+0")
       self.mainWin.title("Quiz Start Window")
       self.mainWin.config(bg="#009FBF")
        f3 = Frame(mAcc, height=901, width=1001, bg="#275DF8", relief="ridge", bd=25)
       f3.propagate(0)
       f3.pack()
        #conn = mysql.connector.connect(host='localhost', database='quizdatabase', user='root', password='')
       conn = mysql.connector.connect(host='localhost', database='quizdatabase', user='root', password='mysql')
       cursor = conn.cursor()
        self.welcomepg = Label(f3, text="Welcome to QuizMe", fg="Blue", bg="White", font=("calibri", 35, "bold itali
           x=275, y=30)
        #insert photo into Account window
        self.userprof = PhotoImage(file='startguiz.png')
        frontimg = Label(f3, image=self.userprof, bg="white")
        frontimg.place(x=375, y=151)
        self.startQuiz = Button(f3, text="Start Quiz", width=16, height=1, fg="#D68910", bg="white",
                               font=("comic sans MS", 16, "bold"), command=self.goinside)
        self.startQuiz.place(x=245, y=401)
        self.logout = Button(f3, text="Logout", width=16, height=1, fg="#D68910", bg="white",
                            font=("comic sans MS", 16, "bold"), command=self.logout)
       self.logout.place(x=545, y=401)
#go to guiz start window
```

Assign randomly selected five questions for each user to answer

Display error messages if,

- Entered wrong password or user name
- Required fields are empty
- Entered less number of characters to password
- Entered invalid email address format





```
#check all the feilds are filled
def check(self, 11):
   ht = 50
    f = 0
    s = 0
    for i in range(5):
       ht = ht + 50
       if len(11[i]) == 0:
            self.l = Label(f1, text="! You cannot leave this empty", fg='red', bg="azure")
            self.l.place(x=400, y=ht)
            self.l = Label(f1, text="! You cannot leave this empty", bg="azure", fg="azure")
           self.l.place(x=400, y=ht)
            f = f + 1
   if 11[2].find("@") == -1 and 11[2].find(".") == -1 and len(11[2]) != 0:
        self.l = Label(f1, text="! Please enter a valid email id", bq="azure", fq="red")
       self.l.place(x=400, y=200)
       s = 1
   else:
```



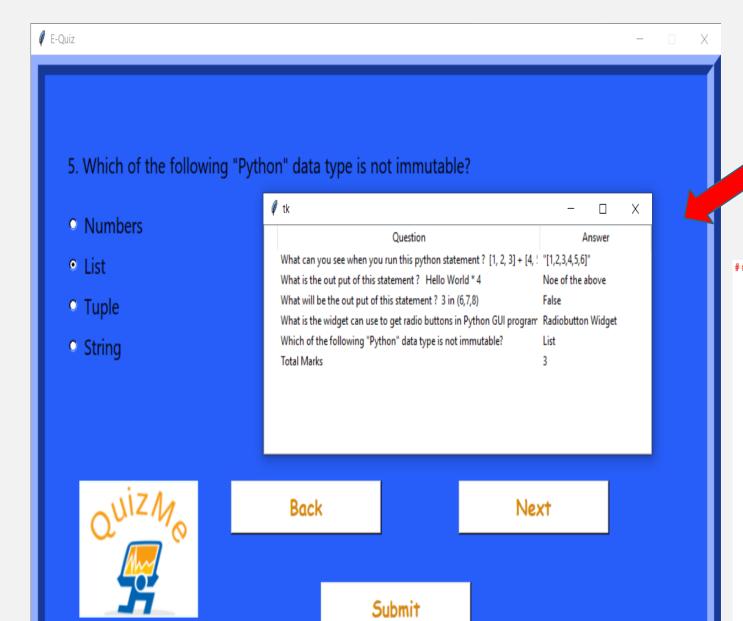
There are two tables

- Question Table
- Register Table



Database connection

```
#### Connect to the database
    db_connection = mysql.connector.connect(
    host="localhost",
    user="root",
    passwd="mysql",
    #passwd="",
    database="quizdatabase"
)
```



Display Attempted questions and correct answer of each question with total marks earned by the user at the end of the quiz in a tabular form

For that tabular display we use "ttk" library

```
#Display Questions and the correct answer in the table with the total ma
class showAnswerstable:
   def init (self,root):
        finalMarks=ttk.Treeview(root)
        finalMarks['columns'] = ('Question', 'Answer')
        questions.append("Total Marks")
        correctAnswer.append(str(s))
        #print(questions[10])
        #print(correctAnswer[10])
        finalMarks.column("#0", width=0, stretch=YES)
        finalMarks.column("Question", anchor=W, width=380)
        finalMarks.column("Answer", anchor=W, width=180)
        finalMarks.heading("Question", text="Question", anchor=CENTER)
        finalMarks.heading("Answer", text="Answer", anchor=CENTER)
        # code for creating table to display the user all guestions--
        # --user faced and the correct answer of each question
        for i in range(6):
            finalMarks.insert(parent='',index='end',iid=i,text='',
                values=(questions[i],correctAnswer[i]))
        finalMarks.pack()
# create root window
root = Tk()
t = showAnswerstable(root)
root.mainloop()
```