

UAE METRO SYSTEM PROJECT SYNOPSIS



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Secondly, I would also like to thank my parents and friends who helped me a lot in finishing this project within limited time. I am making this project not only for marks but also to increase my knowledge. Once again thanks to all who helped me in doing this project.

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TOPIC OF THE PROJECT

UAE METRO SYSTEM

2021-22

AIM OF THE PROJECT

The UAE has become a digital country all in all. From our visa scanning to our ice cream machines they all have become a mechanical in their own right.

So why should our Metro systems be different?

I have created a metro booking system where one can get their metro ticket to any of the seven emirates with just the click of three buttons.

My software can be implemented right this moment in metro stations around the United Arab Emirates. It aims to be the leading software used in metro systems around the globe one day.

This software is the ultimate system by which a customer can get their metro ticket easily and efficiently!

FUNCTIONS AND MODULES

MODULES

import mysql.connecter:

By importing this package, we are able to establish the connection between SQL and Python. And ensure easy transformation on data into the SQL server.

import turtle:

This package provides functions for intricate shapes and pictures to be easily drawn.

import tkinter:

This package is the standard Python interface to the GUI toolkit. Its functions can be used to create Labels, Buttons, Entry fields etc.

import math:

This package is the standard one used to bring in common math functions and to easily incorporate them into your program.

FUNCTIONS

welcome():

This is the first screen you see in the software it welcomes the customer and shows a picture of the metro running.

opeen():

This function allows the user to chose between the customer and administrator interfaces.

fetchall():

This function will return all the rows from the result set in the form of a tuple containing the records.

rates():

This displays the rates for the trip to each of the seven emirates and the discount if you are a special citizen.

booking():

This displays the user interface where the customer can input their destination, their quantity of tickets,

submit1():

This finds out input from customer. And calculates the total bill amount then displays it to the customer.

display():

If you're signed in as administrator, then you are able to view and display the customer record.

update():

If you're signed in as administrator, then you are able to view and update a customer record.

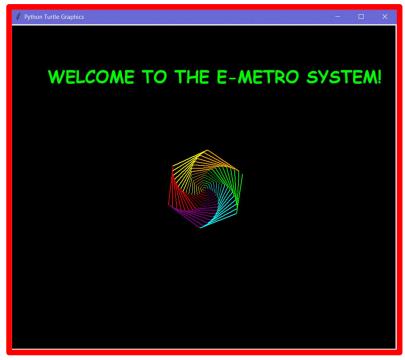
delete():

If you're signed in as administrator, then you are able to view and delete a customer record.

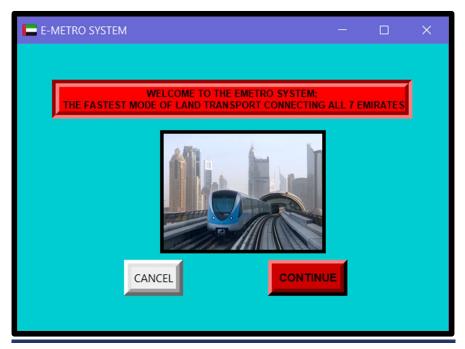
BRIEF DESCRIPTION OF THE PROJECT

- O My project is based on the UAE metro ticket booking system. There are 4 main phases/pages to the software:
 - 1. WELCOME PAGE
 - **2.** LOGIN PAGE :-
 - 3. CUSTOMER INTERFACE
 - 4. ADMINISTRATOR INTERFACE

I. WELCOME PAGE:



First you are greeted with the intricate welcome graphic using turtle module.



We are then taken to the welcome screen, of the metro where it shows us a picture of the metro in action as well as a brief description of it. And the option to continue onto the login screen.

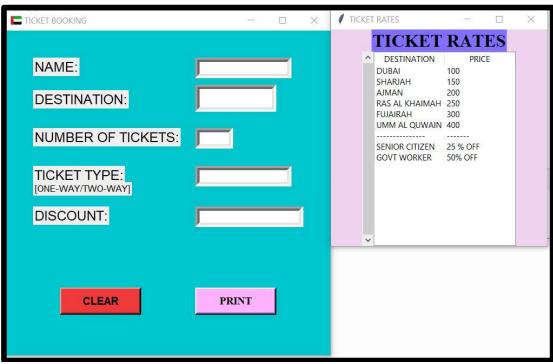
II. LOGIN PAGE:



In the login screen there are 2 modes of logging in: Customer and Administrator.

For the Administrator one we will need to enter the specific username and password to continue onto the admin user face.

III. CUSTOMER LOGIN:



If we continue onto the customer login screen and the ticket rates for the different destinations.

There are 2 buttons and 5 entry fields each with a particular function assigned to it:

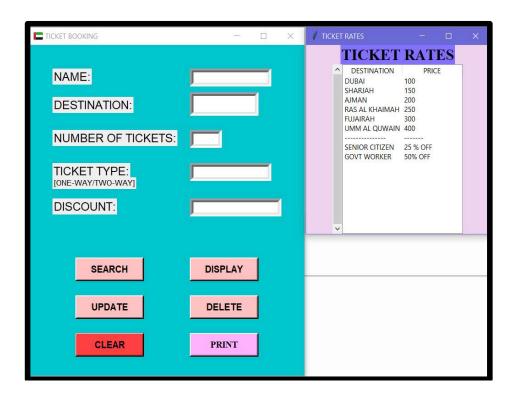
- i. NAME:- To enter customer name
- ii. **DESTINATION**:- To enter desired destination

- iii. **NO OF TICKETS:-** To enter quantity of tickets to be purchased
- iv. **TICKET TYPE:-** To enter whether it's a one-way or return ticket
- v. DISCOUNT:-
 - 1. NO DISCOUNT
 - 2. GOVT EMPLOYEE-50% discount
 - 3. SENIOR CITIZEN-25% discount
- 1) **CLEAR BUTTON:-** Clears all of the entered fields incase of an error
- 2)**SUBMIT BUTTON:-** Gets input and computes data to calculate final bill and display it to customer

IV. ADMINISTRATOR LOGIN:



You must enter the correct username and password to be able to access the Administrator functions.



There are 6 buttons and 5 entry fields each with a particular function assigned to it:

- i. NAME:- To enter customer name
- ii. **DESTINATION:-** To enter desired destination
- iii. **NO OF TICKETS:-** To enter quantity of tickets to be purchased
- iv. **TICKET TYPE**:- To enter whether it's a one-way or return ticket
- v. DISCOUNT:-
 - 1. NO DISCOUNT
 - 2. GOVT EMPLOYEE-50% discount
 - 3. SENIOR CITIZEN-25% discount
- 1) **CLEAR BUTTON:-** Clears all of the entered fields in case of an error

- 2) **SUBMIT BUTTON:-** Gets input and computes data to calculate final bill and display it to customer

 The administrator can also access the customer
 - The administrator can also access the customer record.
- 3) **SEARCH BUTTON**:-Administrator can enter particular name and search for that customer record. If found will display all details of that customer.
- 4) **UPDATE BUTTON:-** Administrator can enter particular name and enter updated details then on clicking button the details are updated in record.
- 5) **DISPLAY BUTTON**:Administrator can display and view all customer records
- 6) **DELETE BUTTON**:- Administrator can enter particular name and on pressing button the particular record will be deleted





WHAT IS MySQL?

MySQL is a relational DBMS that can run virtually all platforms, including Linux, Unix and Windows. Popular for web-based applications and online publishing, MySQL is a part of open-source enterprise stack LAMP (Linux, Apache, MySQL, PHP).

MySQL is a freely available open source

RDBMS that uses Structured Query Language

(SQL). It is downloadable from site www.mysql.org MySQL is fast, reliable, scalable alternative to many of the commercial RDBMs available today. MySQL provides you with a rich set of features that support a secure environment for storing, maintaining, and accessing data.

MySQL was created and supported by MySQL AB; a company based in Sweden. This company is now a subsidiary of Sun Microsystems, which holds the copyright to most of the codebase. On April 20th, 2009, Oracle Corp., which develops and sells the proprietary Oracle database, announced a deal to acquire Sun Microsystems.

SQL provides many different types of commands used for different purposes. SQL commands can be divided into following categories:

- i. Data Definition Language (DDL)
- ii. Data Manipulation Language (DML)
- iii. Transaction Control Language (TCL) iv. Session Control Commands
- v. System Control Commands



WHAT IS PYTHON?

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built-in data structures, combined with dynamic typing and dynamic binding; make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary form without charge for all major platforms and can be freely distributed.

Often, programmers fall in love with Python because of the increased productivity it provides. Debugging Python programs is easy:

a bug or bad input will never cause a segmentation fault. Instead, when the interpreter discovers an error, it raises an exception. A source level debugger allows inspection of local and global variables, evaluation of arbitrary expressions, setting breakpoints, stepping through the code a line at a time, and so on. The debugger is written in Python itself, testifying to Python's introspective power. On the other hand, often the quickest way to debug a program is to add a few print statements to the source: the fast edit-test-debug cycle makes this simple approach very effective

.

HARDWARE AND SOFTWARE REQUIREMENTS

SYSTEM:

OS- Windows 10 Professional 32-Bit (6.1, Build

7601)

Language: English

System Manufacture-Gigabyte Technology

Co., Ltd

BIOS: -BIOS Date: 08/03/13 09:45:07

Ver: 04.06.05

Processor: - Intel (R) Core TM i3-3220CPU

@3.30 GHz (4CPUs), ~3.3GHz

Memory: 2048 MB RAM DirectX Version: Direct XII

DISPLAY DEVICE:

Name:-Intel(R) HD Graphics

Manufacturer: - Gigabyte Technology

Co., Ltd

Chip Type: - Intel(R) HD Graphics Family

DAC Type: -Internal

Approx. Total Memory: -775 MB Current Display mode: - 1336 X 768

(32 Bit)(60Hz)

Monitor: - Generic PnP Monitor

DRIVER:

Main Driver: - igdumdim 32.dll,igd loiumd

32.dll, igd lo

Version: -10.18.10.3345

Date: -10/28/13

WHQL logo's: - Yes

DDI Version: II

Driver Model: -WDDM 1.1

SOURCE CODE	
SOURCE CODE	

```
import tkinter as tk
from tkinter import*
from PIL import ImageTk, Image
from tkinter import messagebox
import turtle
import mysql.connector as mys
from tkinter import ttk
#TURTLE LOADING SCREEN
colors = [ "red", "purple", "cyan", "lime", "orange", "yellow"]
win=turtle.Screen()
turtle.bgcolor("black")
pen=turtle.Turtle()
for x in range (100):
    pen.pencolor(colors[x % 6])
    pen.width(x/100 + 1)
    pen.forward(x)
    pen.left(59)
    pen.speed(5000)
turtle.color('red')
#turtle.done()
pen.hideturtle()
pen.penup()
pen.setposition(x=25, y=250)
arg=("WELCOME TO THE E-METRO SYSTEM!")
pen.write(arg, align='center', font=('Comic
                                                           Sans
MS',25,'bold'))
turtle.hideturtle()
turtle.exitonclick()
#WELCOME SCREEN
def welcome():
    root=Tk()
    root.geometry("600x400")
    root.title("E-METRO SYSTEM")
    root['background'] = 'dark turquoise'
    root.iconbitmap("C:/Users/saura/Desktop/qui/uae.ico")
    def opeen(): #CUSTOMER OR ADMIN
```

```
cancel()
        root=Tk()
        root.geometry("300x250")
        root.title("ABU DHABI TERMINAL")
        root['background'] = 'Olive Drab1'
        root.iconbitmap("C:/Users/saura/Desktop/qui/uae.ico")
btncust=Button(root,text="CUSTOMER",command=booking,borderwid
th=10, font='Times 9')
btnadmin=Button(root,text="ADMINISTRATOR",command=login,borde
rwidth=10,bg="red2",activebackground='Royalblue1',font='Times
9 bold')
        btncust.place (x=70, y=50, width=150, height=50)
        btnadmin.place (x=50, y=150, width=200, height=50)
    def cancel():
        root.destroy()
btncont=Button(root, text="CONTINUE", command=opeen, borderwidth
=10, activebackground='blue', font='sans 9 bold', bg="red3")
btncanc=Button(root, text="CANCEL", command=cancel, borderwidth=
10)
    lblwelc=Label(root,text="WELCOME TO THE EMETRO SYSTEM;\n
               MODE
     FASTEST
                    OF
                        LAND
                               TRANSPORT CONNECTING
                                                         ALL
                                                               7
THE
EMIRATES", bg="red", font='sans
                                                               8
bold',borderwidth=10,relief="groove")
img1=ImageTk.PhotoImage(Image.open("C:/Users/saura/Desktop/gu
i/metr.png"))
lblimag=Label(root,image=img1,borderwidth=5,relief="solid")
    1blimag.place(x=200,y=120)
    lblwelc.place (x=50, y=50)
    btncont.place(x=350, y=300, height=50)
    btncanc.place (x=150, y=300, height=50)
    root.mainloop()
```

```
#ADMIN LOGIN SCREEN
def login():
    def clear():
        euser.delete(0,END)
        epass.delete(0,END)
        disc.delete(0,END)
        etype.delete(0,END)
        menudest.delete(0,END)
    def submit():
        username=euser.get()
        pasw=epass.get()
        if
             username=="admin" or username=="ADMIN"
                                                            and
pasw=="1998":
            messagebox.showinfo("Login ", "LOGIN SUCCESSFUL")
            root.destroy()
            booking2()
        else:
            r=messagebox.askyesno("LOGIN DENIED", "ENTERED
PASSWORD/ID IS INCORRECT.DO YOU WISH TO RETRY?")
    root=Tk()
    root.geometry("400x200")
    root.title("ADMINISTRATOR LOGIN")
    root['background'] = 'orchid2'
    root.iconbitmap("C:/Users/saura/Desktop/qui/uae.ico")
    lbluser=Label(root, text="USERNAME:", font="Helvetica 10")
lblpass=Label(root,text="PASSWORD:",fg="red",font="Helvetica
10")
    euser=Entry(root, borderwidth=10, font="bold")
    epass=Entry(root,borderwidth=10,font="bold",show="*")
    btnclear=Button(root, text="CLEAR", command=clear, bd=4)
btnlog=Button(root, text="LOGIN", command=submit, bd=4, activebac
kground='Royalblue2',bg="red")
 lbluser.grid(row=1, column=0, padx=10, pady=10)
    euser.grid(row=1,column=1,padx=10,pady=10)
    lblpass.grid(row=2, column=0, padx=10)
    epass.grid(row=2,column=1,padx=10,pady=0)
```

```
btnclear.place (x=100, y=130, width=80, height=40)
    btnlog.place(x=200, y=130, width=80, height=40)
    root.mainloop()
def rates():
    root = tk.Tk()
    root.geometry("400x400")
    root.title("TICKET RATES")
    root['background'] = 'thistle2'
    ttk.Label(root,text ="TICKET RATES",background="light
slate blue", font = ("Times New Roman Bold", 20)).pack()
    frame = Frame(root)
    frame.pack()
    tree = ttk. Treeview (frame, columns = (1,2), height = 100,
show = "headings")
    tree.pack(side = 'right')
    tree.heading(1, text = "DESTINATION")
    tree.heading(2, text = "PRICE")
    tree.column(1, width = 130)
    tree.column(2, width = 130)
                   ttk.Scrollbar(frame, orient="vertical",
    scroll
              =
command=tree.yview)
    scroll.pack(side = 'right', fill = 'y')
rs=[("DUBAI","100"),("SHARJAH","150"),("AJMAN","200"),("RAS
          KHAIMAH", "250"), ("FUJAIRAH", "300"), ("UMM
ΑL
                                                            ΑL
QUWAIN", "400"), ("----", "----"), ("SENIOR
CITIZEN", "25 % OFF"), ("GOVT WORKER", "50% OFF")]
    for val in rs:
        tree.insert('', 'end', values = (val[0], val[1]))
#CUSTOMER BOOKING
def booking():
    rates()
    def clear1():
        ename.delete(0,END)
        eno.delete(0,END)
        menudest.delete(0,END)
        disc.delete(0,END)
        etype.delete(0,END)
    def submit1():#CUSTOMER BILL PRINT
```

```
qlobal pricE
        name=ename.get()
        se=str(menudest.get())
        typ=str(etype.get())
        nos=int(eno.get())
        disc=str(edisc.get())
        if se=="DUBAI" or se=="Dubai":
            r = 100
        elif se=="Sharjah" or se=="SHARJAH":
            r = 150
        elif se=="Ajman" or se=="AJMAN":
        elif se=="Fujairah" or se=="FUJAIRAH":
            r = 300
        elif se=="Ras Al Khaimah" or se=="RAS AL KHAIMAH":
            r = 250
        elif se=="Umm Al Quwain" or se=="UMM AL QUWAIN":
            r = 400
        if typ=="ONE-WAY" or typ=="one-way" or typ=="ONEWAY":
            ttyp=1
        elif typ=="TWO-WAY" or typ=="twoway" or typ=="TWOWAY":
            ttyp=2
        pricE=r*nos*ttyp
        disC="NO DISCOUNT"
        if disc=="SENIOR CITIZEN" or disc=="SENIOR CITIZEN":
            pricE=(r*nos*ttyp)*0.75
            disC="SENIOR CITIZEN"
        elif disc=="GOVERNMENT WORKER" or disc=="government
worker" or disc=="GOVT WORKER":
            pricE=(r*nos*ttyp)*0.50
            disC="GOV. EMPLOYEE"
        #print(disc, typ, s, d)
        price=str(pricE)
        messagebox.showinfo("BILL", "YOUR TOTAL BILL IS "+price
+"AED. PLEASE PAY AT NEAREST COUNTER")
```

global typ

```
try:
            myconn=mys.connect(host='localhost',user="root",\
passwd="adis", database="emetro")
            mycur=myconn.cursor()
            query="show tables";
            mycur.execute("insert into uaemetro values\
('{}','{}',{},'{}','{}','{}','{}'.format(name, se, nos, typ, disC, pric
            myconn.commit()
        except Exception as e:
            print(e)
    root=Tk()
    root.geometry("600x600")
    root.title("TICKET BOOKING")
    root['background'] = 'turquoise3'
    root.iconbitmap("C:/Users/saura/Desktop/qui/uae.ico")
    #s=tk.IntVar()
    #d=tk.IntVar()
    #s.set(1)
    #d.set(1)
    lbldest=Label(root, text="DESTINATION:", font="Helvetica")
15")
    menudest=Entry(root,borderwidth=8)
    lblname=Label(root, text="NAME:", font="Helvetica 15")
    ename=Entry(root,borderwidth=8)
                                                              OF
    lblno=Label(root,text="NUMBER
TICKETS:", font="Helvetica 15")
    eno=Entry(root,borderwidth=8)
    lbltype=Label(root, text="TICKET TYPE:", font="Helvetica")
15")
    lbltype1=Label(root, text="[ONE-WAY/TWO-
WAY]", font="Helvetica 10")
    etype=Entry(root,borderwidth=8)
    #rdtype1=Radiobutton(root, text="ONE-
WAY", variable=s, value=1)
```

```
#rdtype2=Radiobutton(root, text="TWO-
WAY", variable=s, value=2)
    lbldisc=Label(root, text="DISCOUNT:", font="Helvetica 15")
    edisc=Entry(root,borderwidth=8)
    #rdtype3=Radiobutton(root, text="GOVERNMENT
WORKER", variable=d, value=3)
    #rdtype4=Radiobutton(root, text="SENIOR
CITIZEN", variable=d, value=2)
    #rdtvpe5=Radiobutton(root,text="NO
DISCOUNT", variable=d, value=1)
btnclear=Button(root,text="CLEAR",command=clear1,bd=4,bq="bro
wn2", font='sans 12 bold')
btnsub=Button(root,text="PRINT",command=submit1,bd=4,activeba
ckground='red',bg='#ffb3fe',font='Times 12 bold')
    lbldest.place (x=50, y=110)
    menudest.place(x=350,y=100,width=150,height=50)
    lblname.place (x=50, y=50)
    ename.place (x=350, y=50)
    lblno.place (x=50, y=180)
    eno.place (x=350, y=180, width=70)
    lbltype.place(x=50, y=250)
    lbltype1.place(x=50, y=280)
    etype.place(x=350, y=250)
    \#rdtype1.place(x=350,y=250)
    \#rdtype2.place(x=350,y=275)
    lbldisc.place (x=50, y=325)
    edisc.place(x=350, y=325, width=200)
    \#rdtype3.place(x=350,y=325)
    \#rdtype4.place(x=350,y=350)
    \#rdtype5.place(x=350,y=375)
    btnclear.place (x=100, y=475, width=150, height=50)
    btnsub.place (x=350, y=475, width=150, height=50)
    root.mainloop()
#ADMIN BOOKING
def booking2():
    rates()
    def clear2():
        ename.delete(0,END)
```

```
eno.delete(0,END)
        menudest.delete(0,END)
        edisc.delete(0,END)
        etype.delete(0,END)
    def submit2():#ADMIN BILL PRINT
        global typ
        global pricE
        name=ename.get()
        se=str(menudest.get())
        typ=str(etype.get())
        nos=int(eno.get())
        disc=str(edisc.get())
        if se=="DUBAI" or se=="Dubai":
            r = 100
        elif se=="Sharjah" or se=="SHARJAH":
            r = 150
        elif se=="Ajman" or se=="AJMAN":
            r = 200
        elif se=="Fujairah" or se=="FUJAIRAH":
        elif se=="Ras Al Khaimah" or se=="RAS AL KHAIMAH":
        elif se=="Umm Al Quwain" or se=="UMM AL QUWAIN":
            r = 400
        if typ=="ONE-WAY" or typ=="one-way" or typ=="ONEWAY":
            ttyp=1
        elif typ=="TWO-WAY" or typ=="twoway" or typ=="TWOWAY":
            ttyp=2
        pricE=r*nos*ttyp
        disC="NO DISCOUNT"
        if disc=="SENIOR CITIZEN" or disc=="SENIOR CITIZEN":
            pricE=(r*nos*ttyp)*0.75
            disC="SENIOR CITIZEN"
        elif disc=="GOVERNMENT WORKER" or disc=="government"
worker" or disc=="GOVT WORKER":
            pricE=(r*nos*ttyp)*0.50
            disC="GOV. EMPLOYEE"
```

```
#print(disc, typ, s, d)
        price=str(pricE)
        messagebox.showinfo("BILL", "YOUR TOTAL BILL IS "+price
+"AED. PLEASE PAY AT NEAREST COUNTER")
        try:
            myconn=mys.connect(host='localhost',user="root",\
passwd="adis",database="emetro")
            mycur=myconn.cursor()
            query="show tables";
            mycur.execute("insert into uaemetro values\
('{}','{}',{},'{}',{}',*)".format(name, se, nos, typ, disC, pric
E))
            myconn.commit()
        except Exception as e:
    def display(): #DISPLAY ALL CUSTOMERS
        try:
                                 mys.connect(host='localhost',
            myconn
user="root", \
                         passwd="adis", database="emetro")
            mycur = myconn.cursor()
            query = "select * from uaemetro ORDER BY name"
            mycur.execute(query)
            rs = mycur.fetchall()
            root = tk.Tk()
            root.geometry("900x700")
            root.title("CUSTOMER REGISTER")
            root['background'] = 'black'
            ttk.Label(root,text
                                                    ="CUSTOMER
REGISTER", background="aquamarine2", font = ("Times New Roman")
Bold", 20)).pack()
            frame = Frame(root)
            frame.pack()
                        ttk.Treeview(frame,
                   =
                                                  columns
(1,2,3,4,5,6), height = 100, show = "headings")
            tree.pack(side = 'right')
```

```
tree.heading(1, text = "NAME.")
            tree.heading(2, text = "DESTINATION")
            tree.heading(3, text = "TICKETS")
            tree.heading(4, text = "TICKET TYPE")
            tree.heading(5, text = "DISCOUNT")
            tree.heading(6, text = "PRICE")
            tree.column(1, width = 130)
            tree.column(2, width = 130)
            tree.column(3, width = 130)
            tree.column(4, width = 130)
            tree.column(5, width = 130)
            tree.column(5, width = 130)
            tree.column(6, width = 130)
            scroll = ttk.Scrollbar(frame, orient="vertical",
command=tree.yview)
            scroll.pack(side = 'right', fill = 'y')
            for val in rs:
                tree.insert('', 'end', values = (val[0],
val[1], val[2], val[3], val[4], val[5]))
        except Exception as e:
            print(e)
    def update(): #UPDATE A CUSTOMER
        global typ
        global pricE
        name=ename.get()
        se=str(menudest.get())
        typ=str(etype.get())
        nos=int(eno.get())
        disc=str(edisc.get())
        if se=="DUBAI" or se=="Dubai":
        elif se=="Sharjah" or se=="SHARJAH":
            r = 150
        elif se=="Ajman" or se=="AJMAN":
            r = 200
        elif se=="Fujairah" or se=="FUJAIRAH":
            r = 300
        elif se=="Ras Al Khaimah" or se=="RAS AL KHAIMAH":
            r = 250
```

```
elif se=="Umm Al Quwain" or se=="UMM AL QUWAIN":
            r = 400
        if typ=="ONE-WAY" or typ=="one-way" or typ=="ONEWAY":
            ttyp=1
        elif typ=="TWO-WAY" or typ=="twoway" or typ=="TWOWAY":
            ttyp=2
        pricE=r*nos*ttyp
        disC="NO DISCOUNT"
        if disc=="SENIOR CITIZEN" or disc=="SENIOR CITIZEN":
            pricE=(r*nos*ttyp)*0.75
            disC="SENIOR CITIZEN"
        elif disc=="GOVERNMENT EMPLOYEE" or disc=="Government
employee":
            pricE=(r*nos*ttyp)*0.50
            disC="GOV. EMPLOYEE"
        #print(disc, typ, pricE)
        price=str(pricE)
        messagebox.showinfo("BILL", "YOUR NEW TOTAL BILL
                                                             IS
"+price +"AED. PLEASE PAY AT NEAREST COUNTER")
        messagebox.showinfo("INFORMATION", "CUSTOMER
                                                         RECORD
SUCCESFULLLY UPDATED")
        try:
            myconn=mys.connect(host='localhost',user="root",\
                            passwd="adis", database="emetro")
            mycur=myconn.cursor()
            query="update
                                      uaemetro
                                                            set
tno={},disc='{}',price={},dest='{}',type='{}'\
                    where
name='{}'".format(nos,disC,price,se,typ,name);
            mycur.execute(query)
            myconn.commit()
        except Exception as e:
            print(e)
        display()
```

```
def delete(): #TO DELETE A CUSTOMER RECORD
        try:
            myconn=mys.connect(host='localhost',user="root",\
passwd="adis",database="emetro")
            mycur=myconn.cursor()
            cname=ename.get()
            query="delete
                           from uaemetro
                                                         where
name='{}'".format(cname);
            mycur.execute(query)
            myconn.commit()
            display()
        except Exception as e:
            print(e)
        messagebox.showinfo("INFORMATION", "CUSTOMER
                                                        RECORD
SUCCESFULLLY DELETED")
    def search(): #SEARCH BY CUST NAME
        name = ename.get()
        try:
            myconn=mys.connect(host='localhost',user="root",\
                            passwd="adis",database="emetro")
            if myconn.is connected():
                mycur=myconn.cursor()
                name = ename.get()
                query="select * from uaemetro
                                                         where
name='{}'".format(name);
                mycur.execute(query)
                r=mycur.fetchall()
                for row in r:
                    if row!=None:
                                                        RECORD
messagebox.showinfo("INFORMATION", "CUSTOMER
SUCCESFULLLY FOUND")
                        menudest.insert(END, row[1])
                        edisc.insert(END, row[4])
                        etype.insert(END, row[3])
                        eno.insert(END, row[2])
```

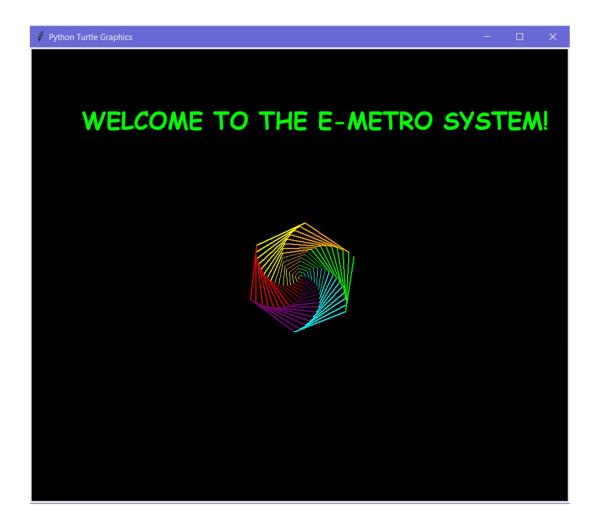
```
print("NAME
","DEST","QUANTITY","TYPE","DISCOUNT","PRICE",sep="\t")
                         print(row[0], row[1], row[2], "
", row[3], row[4], row[5], sep="\t")
                         print("SEARCH SUCCESFUL")
                     else:
messagebox.showinfo("INFORMATION","CUSTOMER RECORD NOT FOUND")
                         print("NO RECORD FOUND")
        except Exception as e:
            print(e)
    root=Tk()
    root.geometry("600x700")
    root.title("TICKET BOOKING")
    root['background'] = 'turquoise3'
    root.iconbitmap("C:/Users/saura/Desktop/qui/uae.ico")
    #s=tk.IntVar()
    #d=tk.IntVar()
    #s.set(1)
    #d.set(1)
    lbldest=Label(root, text="DESTINATION:", font="Helvetica")
15")
    menudest=Entry(root,borderwidth=8)
    lblname=Label(root, text="NAME:", font="Helvetica 15")
    ename=Entry(root,borderwidth=8)
    lblno=Label(root,text="NUMBER
                                                              OF
TICKETS:", font="Helvetica 15")
    eno=Entry(root, borderwidth=8)
    lbltype=Label(root,text="TICKET TYPE:",font="Helvetica
15")
    lbltype1=Label(root, text="[ONE-WAY/TWO-
WAY]", font="Helvetica 10")
    etype=Entry(root, borderwidth=8)
    #rdtype1=Radiobutton(root, text="ONE-
WAY", variable=s, value=1)
    #rdtype2=Radiobutton(root, text="TWO-
WAY", variable=s, value=2)
```

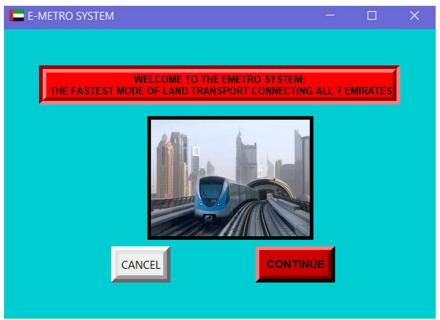
```
lbldisc=Label(root,text="DISCOUNT:",font="Helvetica 15")
    edisc=Entry(root,borderwidth=8)
    #rdtype3=Radiobutton(root,text="GOVERNMENT
WORKER", variable=d, value=3)
    #rdtype4=Radiobutton(root, text="SENIOR
CITIZEN", variable=d, value=2)
    #rdtype5=Radiobutton(root, text="NO
DISCOUNT", variable=d, value=1)
btnclear=Button(root,text="CLEAR",command=clear2,bd=4,bg="bro
wn1", font='sans 12 bold')
btnsearch=Button(root,text="SEARCH",command=search,bd=4,bg="R
osybrown1", font='sans 12 bold')
btndisplay=Button(root, text="DISPLAY", command=display, bd=4, bg
="Rosybrown1", font='sans 12 bold')
btnsub=Button(root,text="PRINT",command=submit2,bd=4,activeba
ckground='red',bg='#ffb3fe',font='Times 12 bold')
btnupdate=Button(root,text="UPDATE",command=update,bd=4,bg="R
osybrown1", font='sans 12 bold')
btndelete=Button(root,text="DELETE",command=delete,bd=4,bg="R
osybrown1", font='sans 12 bold')
    lbldest.place (x=50, y=110)
    menudest.place (x=350, y=100, width=150, height=50)
    lblname.place (x=50, y=50)
    ename.place (x=350, y=50)
    lblno.place (x=50, y=180)
    eno.place (x=350, y=180, width=70)
    lbltype.place(x=50, y=250)
    lbltype1.place (x=50, y=280)
    etype.place (x=350, y=250)
    \#rdtype1.place(x=350,y=250)
    \#rdtype2.place(x=350,y=275)
    lbldisc.place (x=50, y=325)
    edisc.place(x=350, y=325, width=200)
```

```
#rdtype3.place(x=350, y=325)
#rdtype4.place(x=350, y=350)
#rdtype5.place(x=350, y=375)

btnclear.place(x=100, y=610, width=150, height=50)
btnsub.place(x=350, y=610, width=150, height=50)
btnsearch.place(x=100, y=450, width=150, height=50)
btndisplay.place(x=350, y=450, width=150, height=50)
btnupdate.place(x=100, y=530, width=150, height=50)
btndelete.place(x=350, y=530, width=150, height=50)
root.mainloop()
welcome()
```

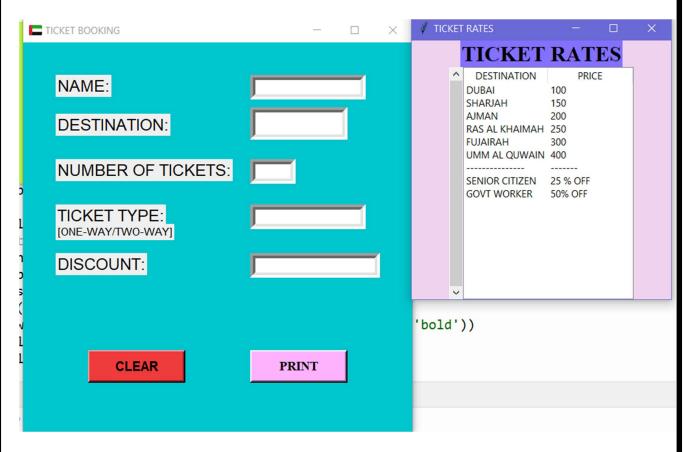
SAMPLE (DUTPUT

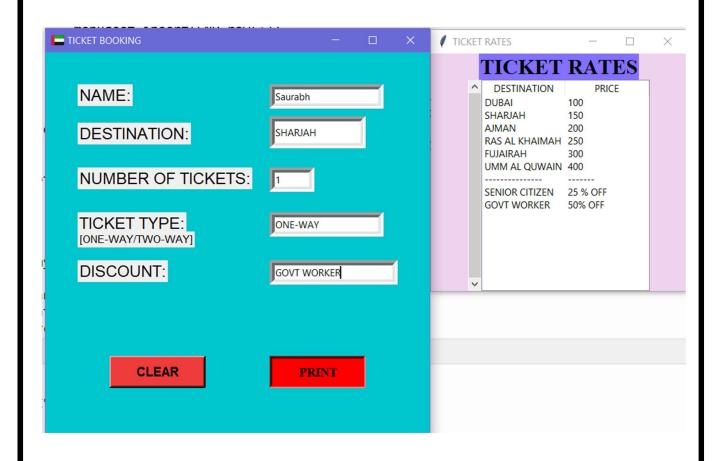




CUSTOMER:





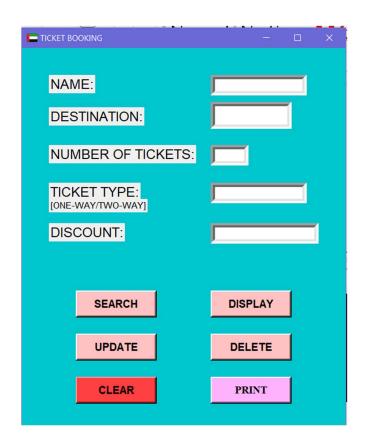




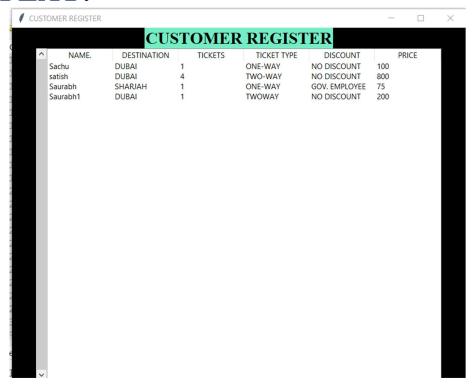
ADMINISTRATOR:



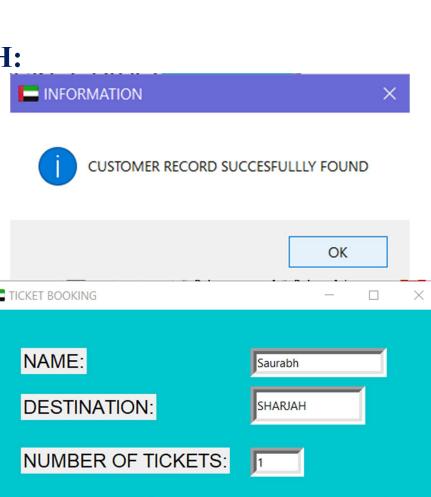




DISPLAY:



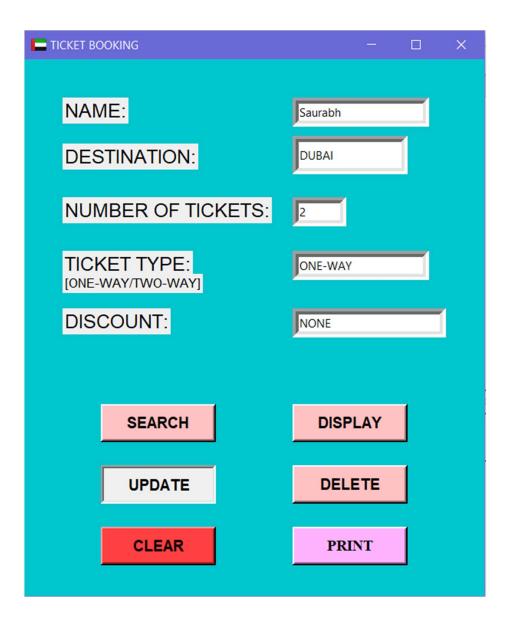
SEARCH:

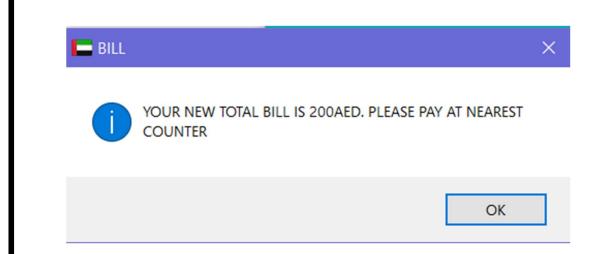


TICKET BOOKING TICKET TYPE: ONE-WAY [ONE-WAY/TWO-WAY] DISCOUNT: GOV. EMPLOYEE DISPLAY **SEARCH** UPDATE DELETE **CLEAR** PRINT

NAME	DEST	QUANTITY	TYPE	DISCO	DUNT	PRICE	
Saurabh	SHARJAH	1	ONE-WAY	GOV.	EMPLOYEE	75	
CENDON O	CHCCECEII						

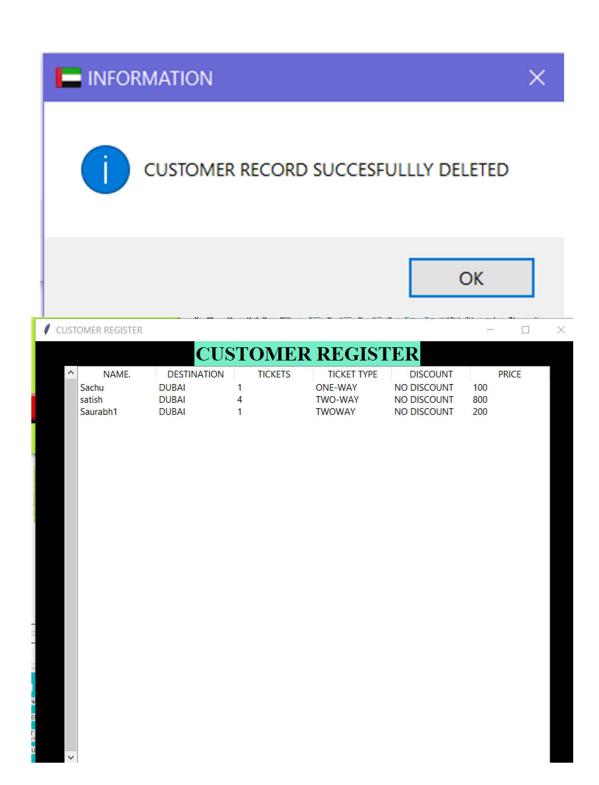
UPDATE:





DELETE:

TICKET BOOKING	- 🗆 X
NAME:	Saurabh
DESTINATION:	DUBAI
NUMBER OF TICKETS:	2
TICKET TYPE: [ONE-WAY/TWO-WAY]	ONE-WAY
DISCOUNT:	NONE
SEARCH	DISPLAY
UPDATE	DELETE
CLEAR	PRINT



В	IBLI	OGR	API	ΙΥ

To develop this project many references were used:

- 1.COMPUTER SCIENCE TEXTBOOK CLASS 12: SUMITA ARORA
- 2.<u>https://www.google.com</u>
- 3. https://www.python.org.in
- 4. https://www.mysql.org
- 5. https://www.tutorialaicsip.com
- 6. https://www.youtube.com/c/Freecodecamp

REMARKS