Filly-Tix Buying Tickets Easier

Python Tkinter

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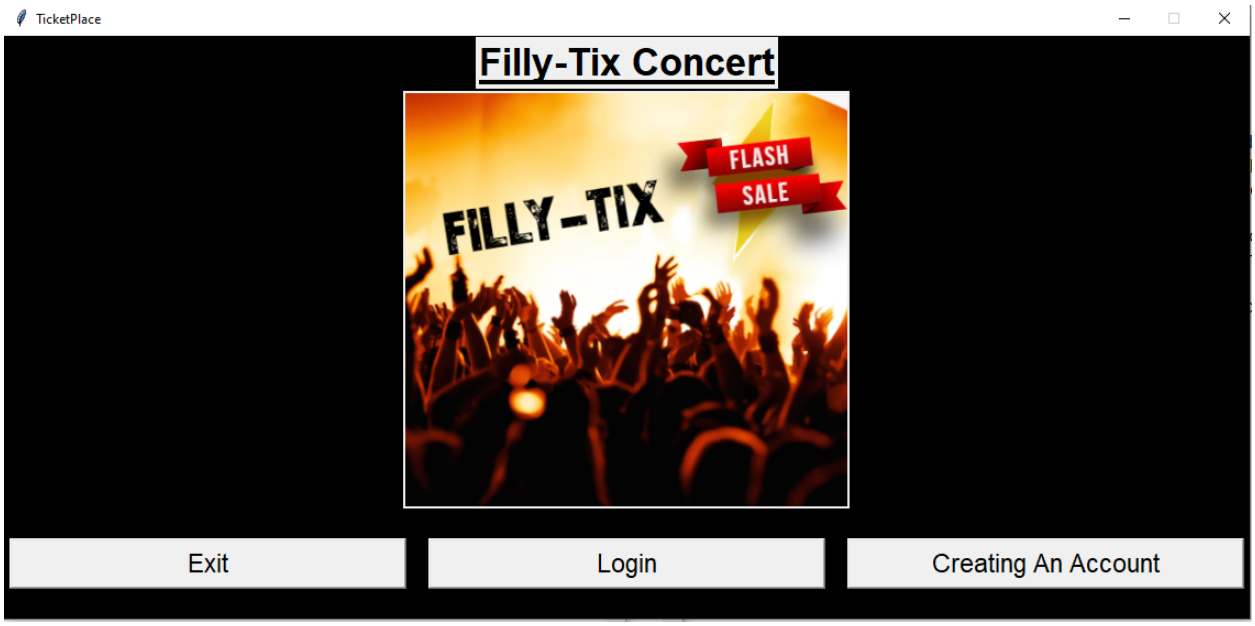
This project consists of 6 milestones, each milestone has specific tasks that add more to it. The project is making a program that lets you buy tickets by section for your show. The project consists of data handling, account creation and login, GUI creation and much more to it.

Project Milestone #1– Main GUI, Account Creation, Password Validation

When the program launches, the first thing to display on the user's screen is a login / create account window. There are three buttons on this window the user can interact with: User Login, Create Account, and Cancel. Clicking cancel ends the program. The user can click Create Account if it's their first time using the program, or they can select User Login if they have already created a username and password.

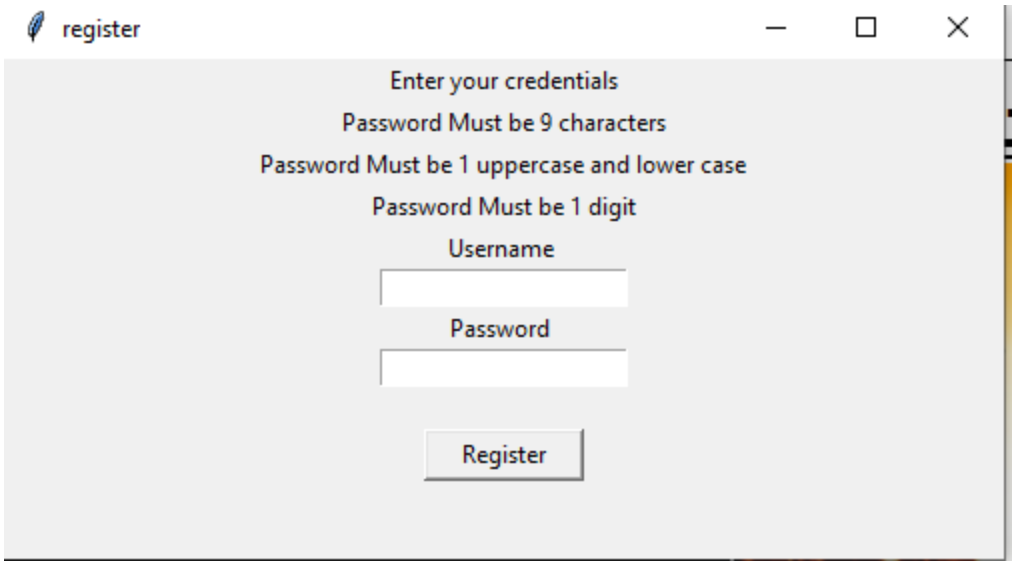


The first thing I created was a logo for a ticket sale page consisting of photoshop and pictures cleverly edited together to give off an aesthetic look.

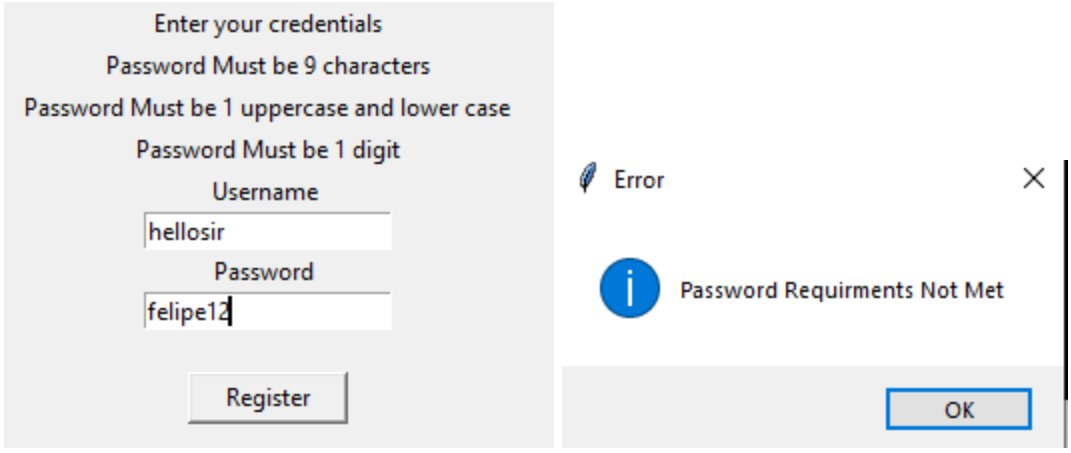
Next we see the buttons on the bottom cleverly laid out due to right handed users since the exit button is placed on the left side of the screen just in case people accidentally click on it.

Creating an account screen

If the create an account button is selected the user has to create their own unique username and password. The account creation button has specific features that a user must do in order to create an account. The password must be eight characters or more, contain at least one digit, at least one uppercase, and at least one lowercase letter to be recognized as a valid password.

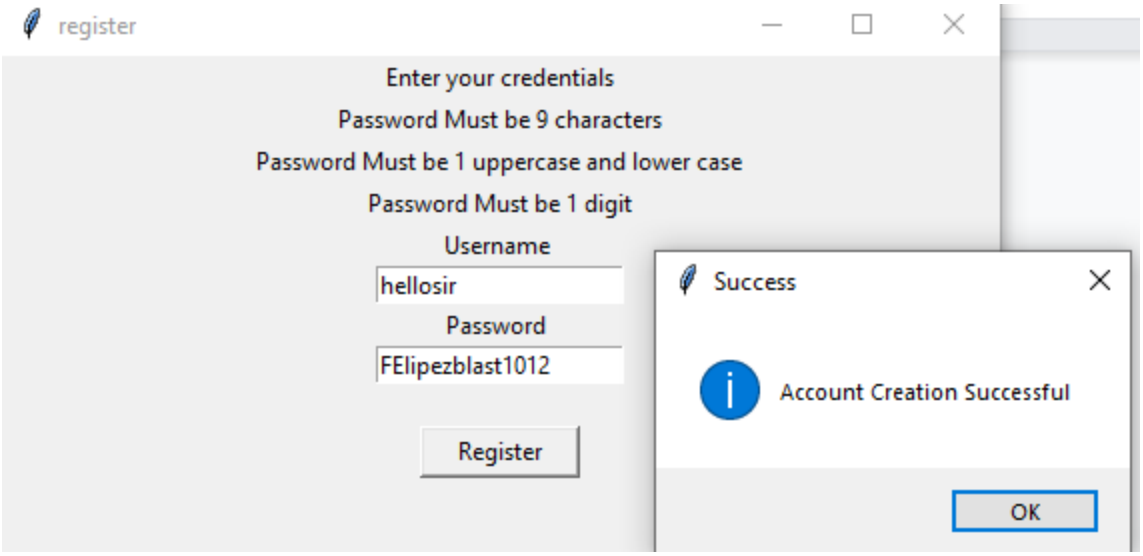


If the password is not met below then the program will prompt the user that the password is invalid.



The data will not be saved to the file containing the users information due to the information not being met to standard par.

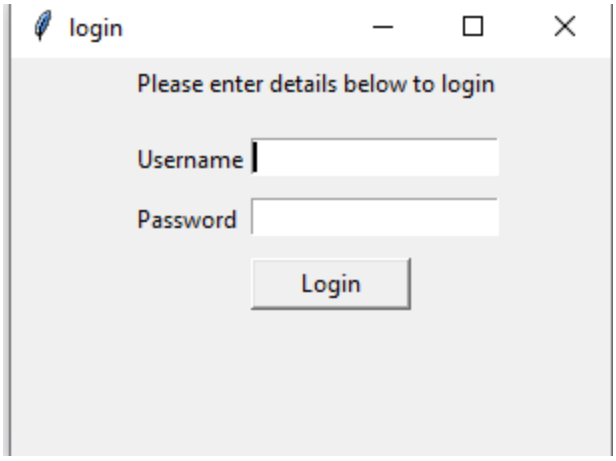
Once the user selects a proper password the prompt will allow the user to move forward



Once an account is created, the username will be stored in a file, and the password will be saved in a different file for retrieval by the login function.

Login screen

This part of the milestone just has a login screen so users can insert their credentials.

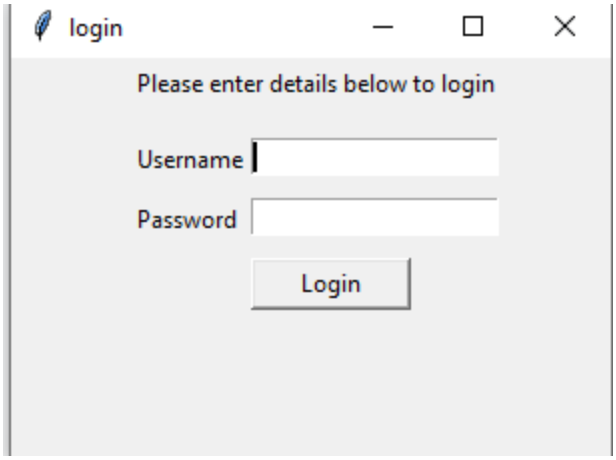


Milestone #2 – Main GUI, Login validation, File handling

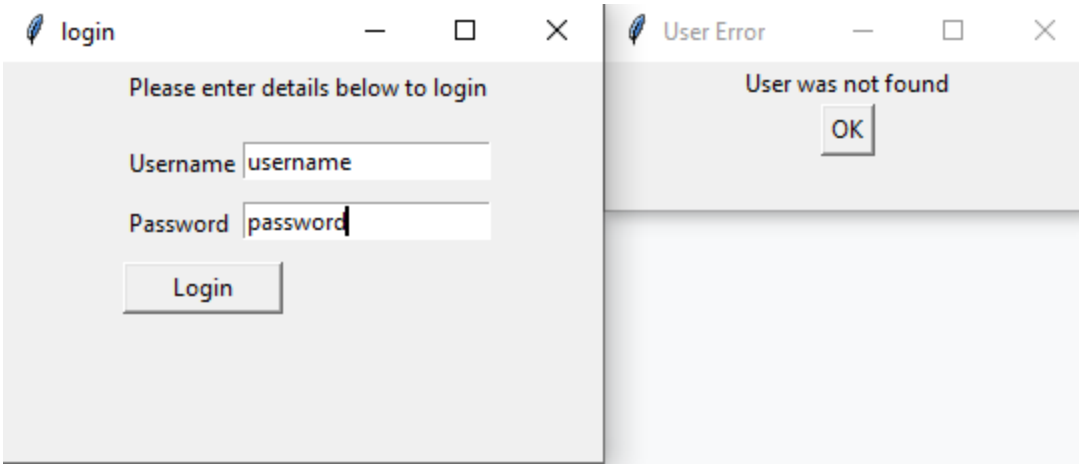
In Milestone #2 the program will have a fully functioning login system and file checking system. As Well as the main screen after the login feature.

Screen

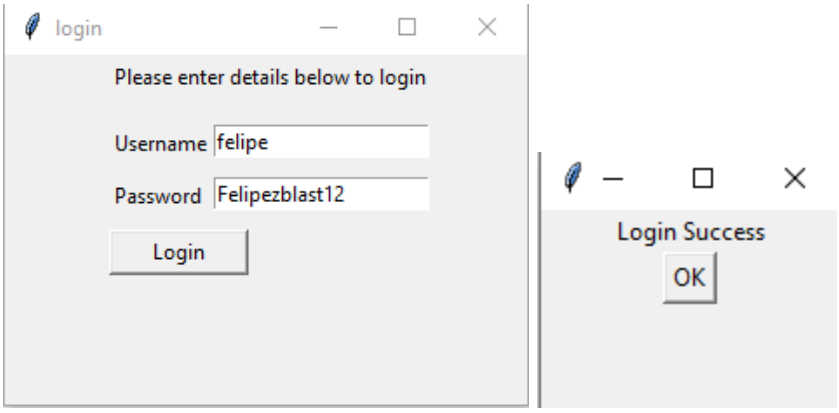
Clicking the login button will show a pop window that will prompt the user to insert the login credentials.



When the login credentials are incorrect and not found the program will pop up a message box saying that the user was not found. How this is found is by making a verification checker that checks if both variables are in the file.

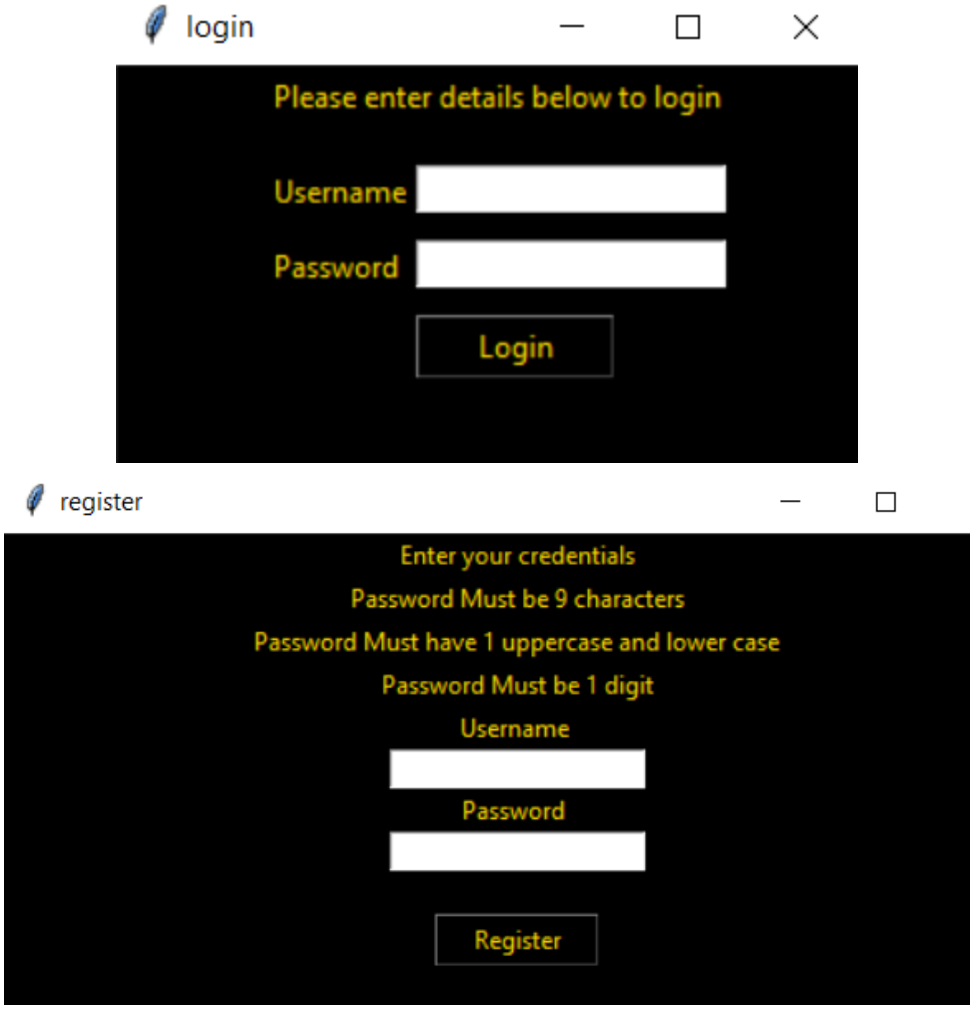


Now when the login is correct and the program checks both files making sure that the credentials inside the files are there and will display Login Success



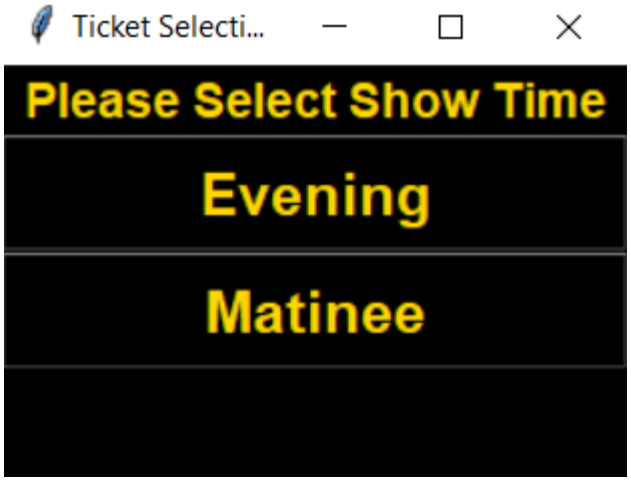
Reskin

When looking at milestone 2 the program gets more advanced and I wanted to reskin the program so then the program has a theme to it. So I edited the content of the program to go with a Gatsby type of background for the project.

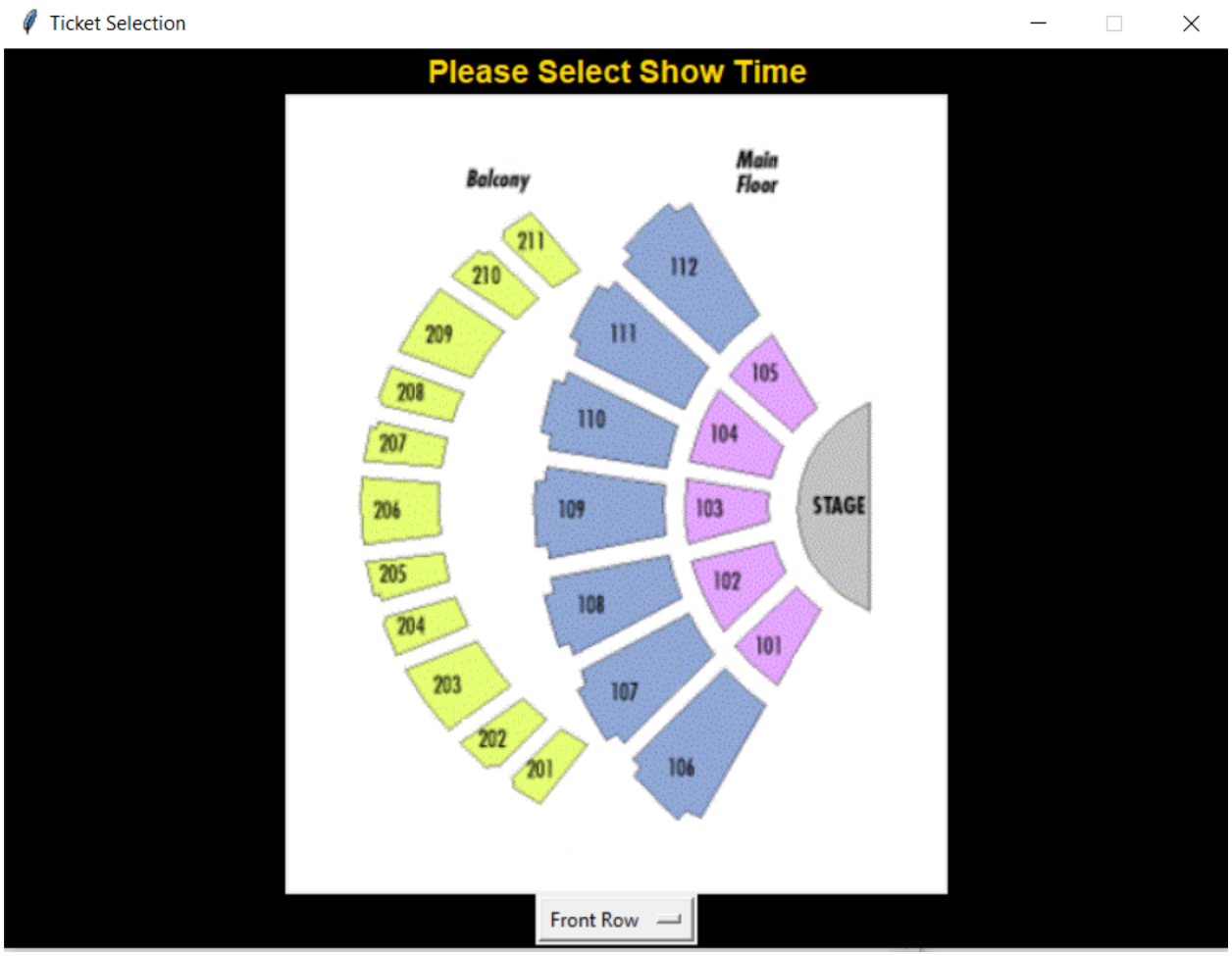


After login function-

After the function we see that the program will take you to selecting time of show which will show Matinee or Evening and you will select on or the other

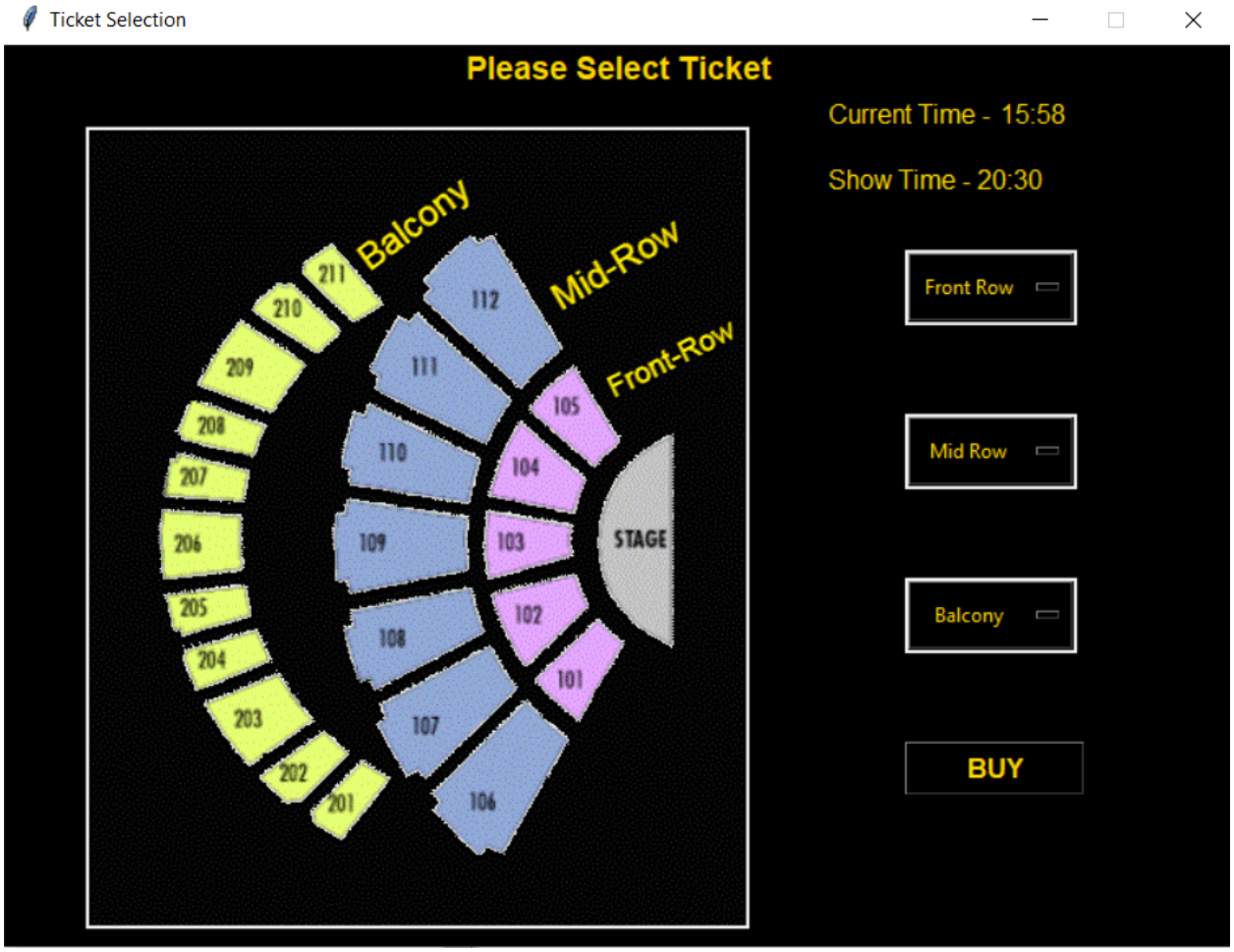


Once the time of day is clicked-
Once the button is clicked the program will execute the command to run either def statement to run to the next screen. This causes the program to take the next def statement to push the program forward.



Milestone #3 – Complete Design of Main Interface & Functionality for User Selection of Data Sets

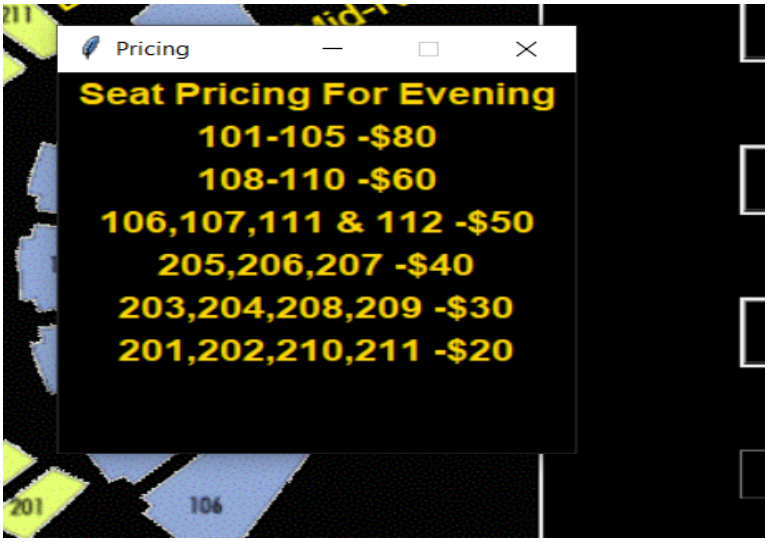
In milestone #3 I configured the buy seat screen and added seating that you are able to select also added time for each section such as matinee or evening



If late to the show

So I created a if/else statement so then if you open up a show it will check the time and pass to the next part of the program so then you can buy a ticket.
If you select a show such as Matinee and you go past 12:30 it will make you go to the next show screen due to you being late

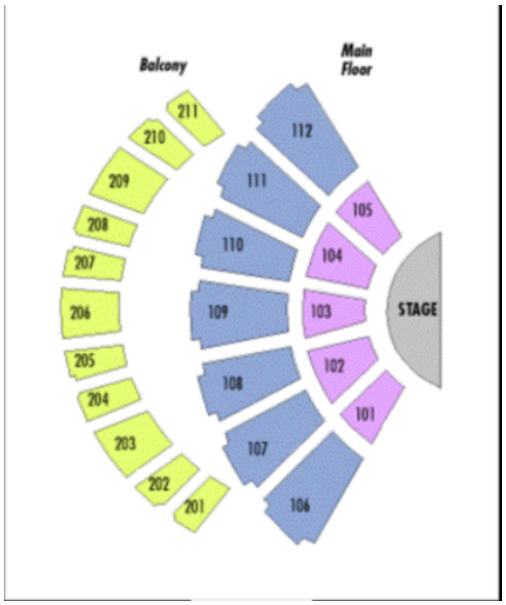
Showing seat pricing
The program now has a way to show the user how much their seat will cost.
By making another def statement to pop up another screen while selecting a seat from the buy screen. This makes sure that the user has it centered on their screen so they would see the pricing first before buying a seat.



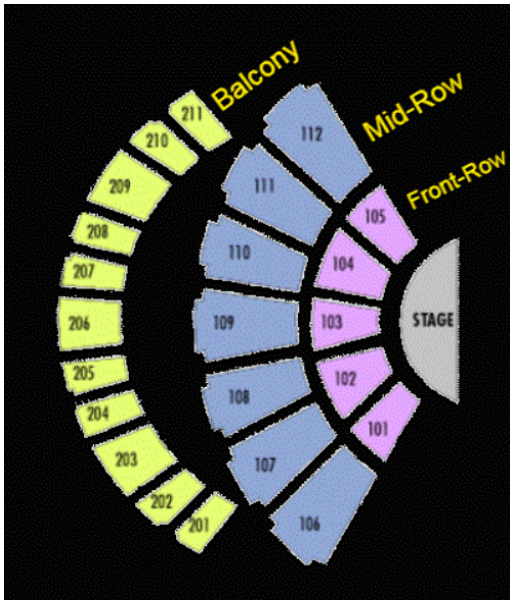
Selecting a seat

I made the seating arrangement a drop down list. By taking the original theater png and photoshopping it to split the seats into 3 separate rows

Original-



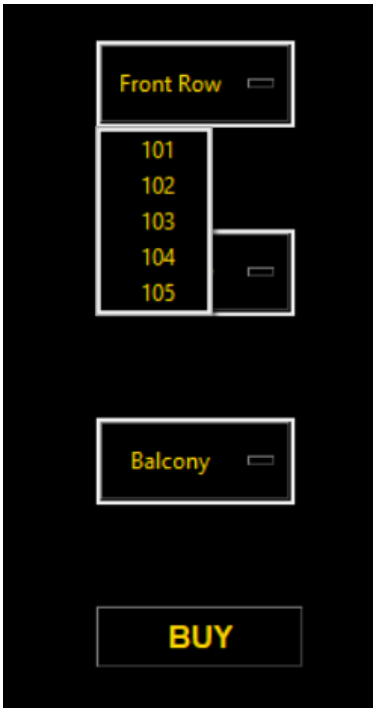
New-



By changing the selection into 3 parts I can break the seats down into sections.
Such that-

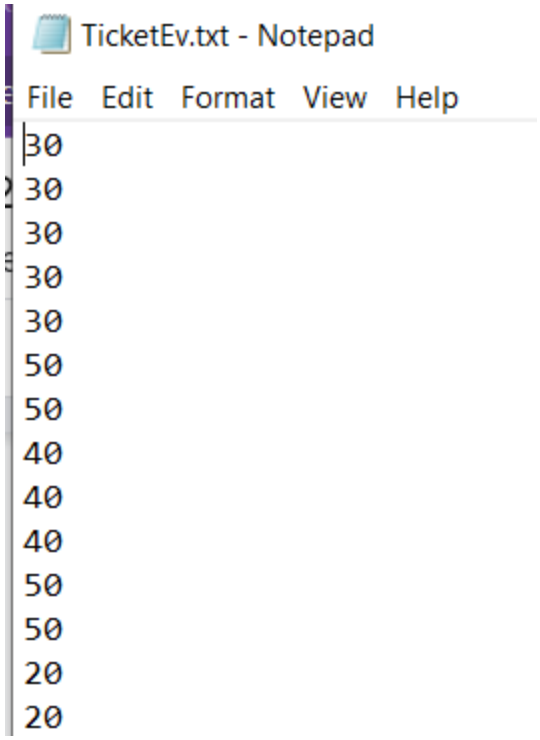
```
var1.set("Front Row")
frontrow = ("101","102","103","104","105")

var2= StringVar()
var2.set("Mid Row")
midrow = ("106","107","108","109","110","111","112")

var3= StringVar()
var3.set("Balcony")
balcony = ("201","202","203","204","205","206","207","208","209","210","211")
```

By doing this I can now have a drop down menu for the seat selection screen



Buy Button For Seat-

For the program I have saved each section of seats in a text file causing the program to always look at the number for each section. So 101 would be set to the first line of the program 102 second line and so forth.



How I set the rows in the text file for the program is setting each row equal to some variable The program will take the users selection and then by setting that seat selection the program will find the value and minus it by 1(user's ticket selection)

Setting the row-

```
fileEV=open("seat_inv_user_ev.txt","a")
try:
    with open("TicketEv.txt","r") as fileseat:
        invseat101 = IntVar()
        invseat101 = next(fileseat).rstrip()
        invseat102 = next(fileseat).rstrip()
        invseat103 = next(fileseat).rstrip()
        invseat104 = next(fileseat).rstrip()
        invseat105 = next(fileseat).rstrip()
        invseat106 = next(fileseat).rstrip()
        invseat107 = next(fileseat).rstrip()
        invseat108 = next(fileseat).rstrip()
        invseat109 = next(fileseat).rstrip()
        invseat110 = next(fileseat).rstrip()
        invseat111 = next(fileseat).rstrip()
        invseat112 = next(fileseat).rstrip()
        invseat201 = next(fileseat).rstrip()
        invseat202 = next(fileseat).rstrip()
        invseat203 = next(fileseat).rstrip()
        invseat204 = next(fileseat).rstrip()
        invseat205 = next(fileseat).rstrip()
        invseat206 = next(fileseat).rstrip()
        invseat207 = next(fileseat).rstrip()
        invseat208 = next(fileseat).rstrip()
        invseat209 = next(fileseat).rstrip()
        invseat211 = next(fileseat).rstrip()
```

If statement to subtract 1-

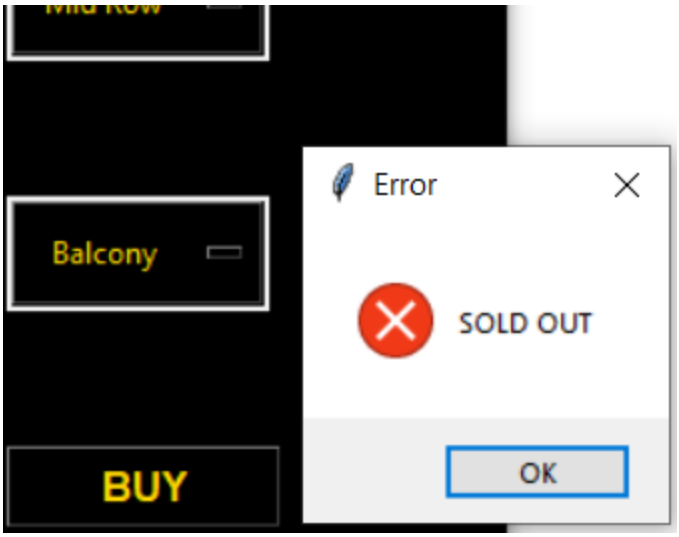
```
if(seat == "101"):
    invseat101 = int(invseat101)
    invseat101-=1
    print(invseat101)

elif(seat == "102"):
    invseat102 = int(invseat102)
    invseat102-=1
    print(invseat102)

elif(seat == "103"):
    invseat103 = int(invseat103)
    invseat103-=1
    print(invseat103)
```

Project Milestone #4- File configuration and editing

The program no will pull from the file taking the inventory of seats and setting it as an integer. Once it is set as the integer we take the value and minus it by 1 and then set the seat as string and put it back into the file as the initial amount as below.

```
elif(seat == "103"):
    if(invseat103 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat103 = int(invseat103)
        invseat103-=1
        invseat103 = str(invseat103)
```

The next step in the process is to display a message to the user stating that the seat that they have selected is not available/sold out



Then the user will need to select the next seat and so on.

Milestone #5 - Ticket stub

With the steps throughout the milestones the program will now output a ticket stub for when the user has ordered the ticket. The stub takes the user's login information and seat. Displays it on the ticket as well as the cost of the ticket itself.

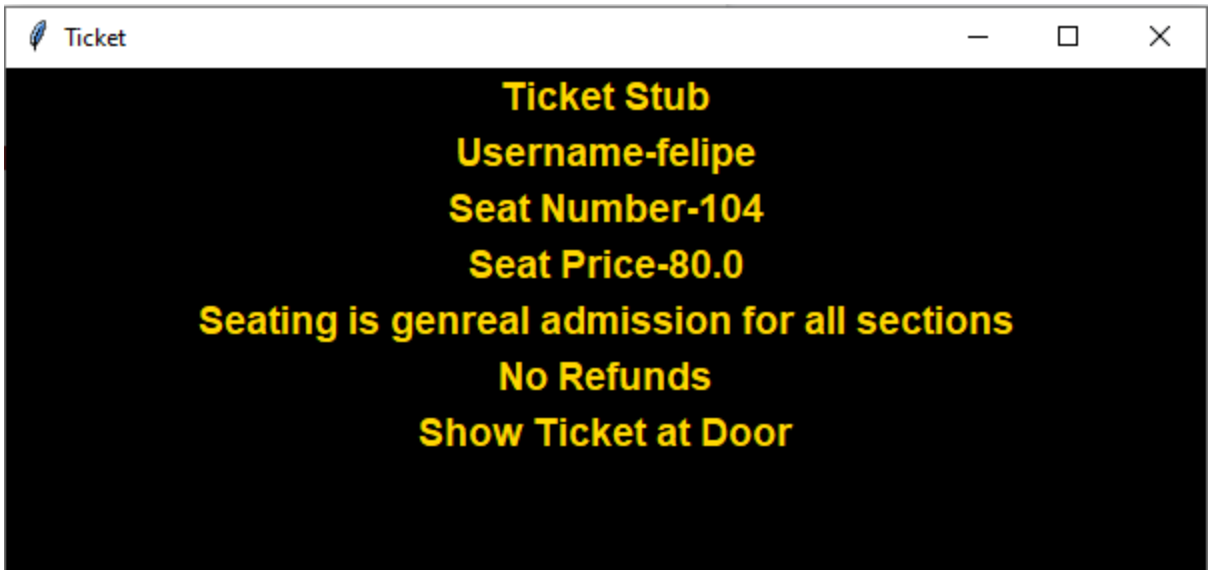
```
elif(seat == "203"):
    if(invseat203 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat203 = int(invseat203)
        invseat203-=1
        invseat203 = str(invseat203)
        cost = 30.00
        cost = str(cost)
```

I formatted the code to cut down some time in running the program and some of the lines of code to make it more simpler. By having everything in one if or elif statement and running each seat one by 1 this saved a rough estimate of 50 lines to 75 for my original way. Secondly I set cost as an int for each seat and put the price down for each of the seats in every section. So then when the ticket is being called up later in the program you can grab the seat number and cost since seat is a string and cost is to.

The Ticket print out

```
global screen12
screen12= tk.Tk()
screen12.title("Ticket")
screen12.geometry("600x350")
screen12.config(bg = ('black'))
Label(screen12, text = "Ticket Stub",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "Username-"+username_verify.get(),font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "Seat Number-"+seat,font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "Seat Price-"+cost,font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "Seating is genreal admission for all sections",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "No Refunds",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
Label(screen12, text = "Show Ticket at Door",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
```

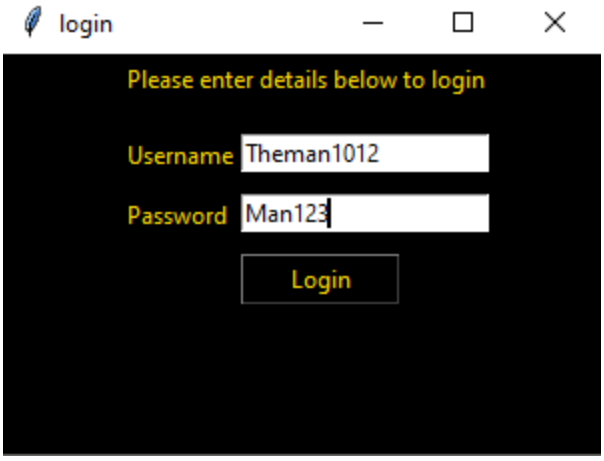
The ticket is on a separate screen after all the procedures for getting the information and taking out the seat from the file. The Ticket takes the information from the user such as the login username and the seat that they have chosen. What made the code easier to read was that since I did everything in an if statement the program would grab the seat that the user wanted. Takes the information for that seat such as the seat number and the cost and displaces it on the context of the ticket.



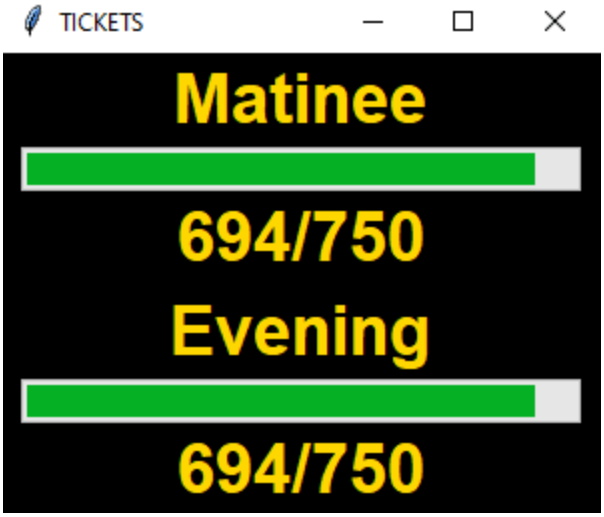
Milestone #6 Final Milestone

I have created a manager function in the making. In the login function when you enter in a certain credential it opens up another window separate then the ones seen before.

```
if (username1 == "Theman1012" and password1 == "Man123"):
    managerLogin()
else:
    pass
```



Once the user has moved onto the next area the program will then open up another window and a progress/Seat analyst bar will appear.



CODE-

```
from tkinter import *
import tkinter as tk
import re
import os
from tkinter import messagebox
from datetime import datetime
import time as tm
import time
from tkinter import ttk

###############################################################################
######################
#password validation
def register_user():
    username_info = username.get()
    password_info = password.get()

    #file opening and closing to write
```

```
    #2 files for 1 password and 1 username for easier access
    lower, upper, digit = 0,0,0
    flag = 0
    index = 0
    userfile=open("username_info.txt", "r")
    for line in userfile:
        index +=1
        if username_info in line:
            flag = 1
            break
    if flag == 1:
        messagebox.showinfo("Error", "Username is already taken")
    else:
        if(len(password_info) >=9):
            for i in password_info:
                if(i.islower()):
                    lower+=1
                if(i.isupper()):
                    upper+=1
                if(i.isdigit()):
                    digit+=1
            if (lower >= 1 and upper >= 1 and digit >= 1):
                messagebox.showinfo("Success", "Account Creation Successful")
                userfile=open("username_info.txt", "a")
                userfile.write(username_info+"\n")
                userfile.close()
                passfile=open("password_info.txt", "a")
                passfile.write(password_info+"\n")
                passfile.close()
                desScreen2()
            else:
                messagebox.showinfo("Error", "Password Requirements Not Met")
        else:
                messagebox.showinfo("Error", "Password Requirements Not Met")

    Label(screen1, text = "registration was successful", fg = "green", font = ("calibri", 11))
    #if register has password is correct and seeing if it is a new user and pass is valid


def register():
    global screen1
```

```
    screen1 = tk.Tk()
    screen1.title("register")
    screen1.geometry("500x250")
    screen1.config(bg = ('black'))
    screen1.eval('tk::PlaceWindow . center')


    global username
    global password
    global username_entry
    global password_entry

    username = StringVar()
    password = StringVar()

    Label(screen1, text = "Enter your credentials",bg = "Black", fg= "Gold").pack()
    Label(screen1, text = "Password Must be 9 characters",bg = "Black", fg=
"Gold").pack()
    Label(screen1, text = "Password Must have 1 uppercase and lower case",bg = "Black",
fg= "Gold").pack()
    Label(screen1, text = "Password Must be 1 digit",bg = "Black", fg= "Gold").pack()

    Label(screen1, text = "Username ",bg = "Black", fg= "Gold").pack()
    username_entry = Entry(screen1, textvariable = username).pack()
    username_entry
    Label(screen1, text = "Password ",bg = "Black", fg= "Gold").pack()
    password_entry = Entry(screen1, textvariable = password).pack()
    password_entry
    Label(screen1,text = "",bg = "Black", fg= "Black").pack()
    Button(screen1, text = "Register", width = 10, height = 1,bg = "Black", fg= "Gold",
command = register_user).pack()

##############################################################################
######################
#check to see if login has account
#check to see if password is

#login verification

def login():
```

```
    global screen2
    screen.destroy()
    screen2 = tk.Tk()
    screen2.title("login")
    screen2.geometry("300x200")
    screen2.config(bg = ('black'))
    Label(screen2, text = "Please enter details below to login",bg = "Black", fg=
"Gold").place(x=60,y=2)
    screen2.eval('tk::PlaceWindow . center')

    global username_verify
    global password_verify

    username_verify = StringVar()
    password_verify = StringVar()

    global username_entry1
    global password_entry1

    Label(screen2, text = "Username",bg = "Black", fg= "Gold").place(x=60,y=40)
    username_entry1 = Entry(screen2, textvariable = username_verify).place(x=120,y=40)
    username_entry1

    Label(screen2, text = "Password",bg = "Black", fg= "Gold").place(x=60,y=70)
    password_entry1 = Entry(screen2, textvariable = password_verify).place(x=120,y=70)
    password_entry1
    Button(screen2, text = "Login" ,bg = "Black", fg= "Gold", width = 10, height = 1,
command = login_verify,).place(x=120,y=100)


def  login_verify():
    username1 = username_verify.get()
    password1 = password_verify.get()
    if (username1 == "Theman1012" and password1 == "Man123"):
        managerLogin()
        screen2.destroy()
        screen6.destroy()
    else:
        pass

    success = False
```

```
   try:
      with open("username_info.txt") as usernames, open("password_info.txt") as
passwords:
         while True:
            name = next(usernames).rstrip()
            pw = next(passwords).rstrip()
            if name == username1 and pw == password1:
               success = True
               break
   except StopIteration:
      pass
   if success:
      messagebox.showinfo("title", "Login Success")
      screen2.destroy()
      Ticket_Select()
   else:
      messagebox.showwarning("title", "User not found")



##########################################################################
######################
#milestone 2 page after login
#selecting times
def Ticket_Select():
   global screen6
   screen6= tk.Tk()
   screen6.title("Ticket Selection")
   screen6.geometry("250x175")
   screen6.config(bg = ('black'))
   screen6.eval('tk::PlaceWindow . center')
   Label(screen6, text = 'Please Select Show Time',font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
   Button(screen6, text=' Evening ', width=20,font=("helvetica",17,"bold"),bg = "Black",
fg= "Gold",command = Evening_Time).pack()
   Button(screen6, text=' Matinee ', width=20,font=("helvetica",17,"bold"),bg = "Black",
fg= "Gold", command = Matinee_Time).pack()
#buttons for each of the times
def Matinee_Time():
   screen6.destroy()
   global screen7
```

```
   now = datetime.now()
   current_time = now.strftime("%H:%M")

   if (current_time <= '12:30'):
      screen7= tk.Tk()
      screen7.title("Ticket Selection")
      screen7.geometry("750x550")
      screen7.config(bg = ('black'))
      Label(screen7, text = 'Please Select Your Seat',font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
      screen7.resizable(False,False)
      screen7.config(bg = ('black'))

      S_Price_Mat()

      photo = tk.PhotoImage(file="Theater.gif")
      T_pic= tk.Label(image= photo)
      T_pic.image = photo
      T_pic.place(x=50,y=50)
      var1= StringVar()
      var1.set("Front Row")
      frontrow = ("101","102","103","104","105")

      var2= StringVar()
      var2.set("Mid Row")
      midrow = ("106","107","108","109","110","111","112")

      var3= StringVar()
      var3.set("Balcony")
      balcony = ("201","202","203","204","205","206","207","208","209","210","211")

      frontrow_menu = tk.OptionMenu(screen7,var1,*frontrow)
      frontrow_menu.config(bg="Black",fg="Gold")
      frontrow_menu.config(width=10)
      frontrow_menu.config(height=2)
      frontrow_menu["menu"].config(bg="Black",fg="Gold")
      frontrow_menu.place(x=550,y=125)


      midrow_menu = tk.OptionMenu(screen7,var2,*midrow)
      midrow_menu.config(bg="Black",fg="Gold")
```

```
        midrow_menu.config(width=10)
        midrow_menu.config(height=2)
        midrow_menu["menu"].config(bg="Black",fg="Gold")
        midrow_menu.place(x=550,y=225)


        balcony_menu = tk.OptionMenu(screen7,var3,*balcony)
        balcony_menu.config(bg="Black",fg="Gold")
        balcony_menu.config(width=10)
        balcony_menu.config(height=2)
        balcony_menu["menu"].config(bg="Black",fg="Gold")
        balcony_menu.place(x=550,y=325)

        midrow_menu.config(width=10)
        midrow_menu.config(height=2)
        midrow_menu["menu"].config(bg="Black",fg="Gold")
        midrow_menu.place(x=550,y=225)


        balcony_menu = tk.OptionMenu(screen7,var3,*balcony)
        balcony_menu.config(bg="Black",fg="Gold")
        balcony_menu.config(width=10)
        balcony_menu.config(height=2)
        balcony_menu["menu"].config(bg="Black",fg="Gold")
        balcony_menu.place(x=550,y=325)

        Label(screen7,font='ariel 12',bg="Black",fg="Gold",text="Current Time
-").place(x=500,y=30)
        Label(screen7,font='ariel
12',bg="Black",fg="Gold",text=current_time).place(x=605,y=30)
        Label(screen7,font='ariel 12',bg="Black",fg="Gold",text="Show Time -
12:30").place(x=500,y=70)

        buy_button = Button(text=' BUY ', width=10,
font=("helvetica",12,"bold"),bg="Black",fg="Gold",
command=buyticketmat).place(x=550,y=425)

    elif (current_time >= '12:30'):
        Ticket_Select()
        messagebox.showinfo("Error", "Please Select Another Show time, To Late To This
Show")
```

```
def Evening_Time():
    screen6.destroy()
    global screen8
    global var1
    global var2
    global var3
    now = datetime.now()
    current_time = now.strftime("%H:%M")

    if (current_time <= '20:30'):
        screen8= tk.Tk()
        screen8.title("Ticket Selection")
        screen8.geometry("750x550")
        screen8.config(bg = ('black'))
        Label(screen8, text = 'Please Select Ticket',font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()
        screen8.resizable(False,False)
        screen8.config(bg = ('black'))

        S_Price_eve()

        photo = tk.PhotoImage(file="Theater.gif")
        T_pic= tk.Label(image= photo)
        T_pic.image = photo
        T_pic.place(x=50,y=50)
        var1= StringVar()
        var1.set("Front Row")
        frontrow = ("Front Row","101","102","103","104","105")

        var2= StringVar()
        var2.set("Mid Row")
        midrow = ("Mid Row","106","107","108","109","110","111","112")

        var3= StringVar()
        var3.set("Balcony")
        balcony =
("Balcony","201","202","203","204","205","206","207","208","209","210","211")

        frontrow_menu = tk.OptionMenu(screen8,var1,*frontrow)
```

```
    frontrow_menu.config(bg="Black",fg="Gold")
    frontrow_menu.config(width=10)
    frontrow_menu.config(height=2)
    frontrow_menu["menu"].config(bg="Black",fg="Gold")
    frontrow_menu.place(x=550,y=125)


    midrow_menu = tk.OptionMenu(screen8,var2,*midrow)
    midrow_menu.config(bg="Black",fg="Gold")
    midrow_menu.config(width=10)
    midrow_menu.config(height=2)
    midrow_menu["menu"].config(bg="Black",fg="Gold")
    midrow_menu.place(x=550,y=225)


    balcony_menu = tk.OptionMenu(screen8,var3,*balcony)
    balcony_menu.config(bg="Black",fg="Gold")
    balcony_menu.config(width=10)
    balcony_menu.config(height=2)
    balcony_menu["menu"].config(bg="Black",fg="Gold")
    balcony_menu.place(x=550,y=325)


    midrow_menu.config(width=10)
    midrow_menu.config(height=2)
    midrow_menu["menu"].config(bg="Black",fg="Gold")
    midrow_menu.place(x=550,y=225)


    balcony_menu = tk.OptionMenu(screen8,var3,*balcony)
    balcony_menu.config(bg="Black",fg="Gold")
    balcony_menu.config(width=10)
    balcony_menu.config(height=2)
    balcony_menu["menu"].config(bg="Black",fg="Gold")
    balcony_menu.place(x=550,y=325)

    Label(screen8,font='ariel 12',bg="Black",fg="Gold",text="Current Time
-").place(x=500,y=30)
    Label(screen8,font='ariel
12',bg="Black",fg="Gold",text=current_time).place(x=605,y=30)
```

```
        Label(screen8,font='ariel 12',bg="Black",fg="Gold",text="Show Time -
20:30").place(x=500,y=70)

        buy_button = tk.Button(text=' BUY ', width=10,
font=("helvetica",12,"bold"),bg="Black",fg="Gold",
command=buyticketevening).place(x=550,y=425)

    elif (current_time >= '20:30'):
        Ticket_Select()
        messagebox.showinfo("Error", "Sorry For The Inconvience We Are Currently
Closed, Check Back Another Time")

################################
#def statments to show pricing for the seats
def S_Price_eve():
    global screen9
    screen9= tk.Tk()
    screen9.title("Pricing")
    screen9.geometry("250x250")
    screen9.config(bg = ('black'))
    Label(screen9, text = 'Seat Pricing For Evening',font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
    screen9.resizable(False,False)
    screen9.config(bg = ('black'))

    Label(screen9, text = "101-105 -$80",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen9, text = "108-110 -$60",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen9, text = "106,107,111 & 112 -$50",font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
    Label(screen9, text = "205,206,207 -$40",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen9, text = "203,204,208,209 -$30",font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()
    Label(screen9, text = "201,202,210,211 -$20",font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()

def S_Price_Mat():
    global screen10
    screen10= tk.Tk()
```

```
   screen10.title("Pricing")
   screen10.geometry("250x250")
   screen10.config(bg = ('black'))
   Label(screen10, text = 'Seat Pricing For Matinee',font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
   screen10.resizable(False,False)
   screen10.config(bg = ('black'))
   screen10.eval('tk::PlaceWindow . center')

   Label(screen10, text = "101-105 -$50",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen10, text = "108-110 -$40",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen10, text = "106,107,111 & 112 -$30",font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
   Label(screen10, text = "205,206,207 -$20",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen10, text = "203,204,208,209 -$15",font=("Helvetica",14,"bold"),bg =
"Black", fg= "Gold").pack()
   Label(screen10, text = "201,202,210,211 -$10",font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()
####################################

def buyticketevening():

   fileEV=open("seat_inv_user_ev.txt","a")
   try:
      with open("TicketEv.txt","r") as fileseat:
         invseat101 = IntVar()
         invseat101 = next(fileseat).rstrip()
         invseat102 = next(fileseat).rstrip()
         invseat103 = next(fileseat).rstrip()
         invseat104 = next(fileseat).rstrip()
         invseat105 = next(fileseat).rstrip()
         invseat106 = next(fileseat).rstrip()
         invseat107 = next(fileseat).rstrip()
         invseat108 = next(fileseat).rstrip()
         invseat109 = next(fileseat).rstrip()
         invseat110 = next(fileseat).rstrip()
         invseat111 = next(fileseat).rstrip()
         invseat112 = next(fileseat).rstrip()
```

```
            invseat201 = next(fileseat).rstrip()
            invseat202 = next(fileseat).rstrip()
            invseat203 = next(fileseat).rstrip()
            invseat204 = next(fileseat).rstrip()
            invseat205 = next(fileseat).rstrip()
            invseat206 = next(fileseat).rstrip()
            invseat207 = next(fileseat).rstrip()
            invseat208 = next(fileseat).rstrip()
            invseat209 = next(fileseat).rstrip()
            invseat210 = next(fileseat).rstrip()
            invseat211 = next(fileseat).rstrip()
    except StopIteration:
        pass
######Front Row
#the program will grab from the var list such as var1
#selects var 1 and sees what is inside of it
#if the seat is 0 then display error messages
#else is if not set to 0 then take the value and subtract it by 1
    if(var1.get()!= "frontrow"):
        seat = var1.get()
        if(seat == "101"):
            if(invseat101 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat101 = int(invseat101)
                invseat101-=1
                invseat101 = str(invseat101)
                cost = 80.00
                cost = str(cost)

        elif(seat == "102"):
            if(invseat102 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat102 = int(invseat102)
                invseat102-=1
                invseat102 = str(invseat102)
                cost = 80.00
                cost = str(cost)

        elif(seat == "103"):
```

```
            if(invseat103 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat103 = int(invseat103)
                invseat103-=1
                invseat103 = str(invseat103)
                cost = 80.00
                cost = str(cost)

        elif(seat == "104"):
            if(invseat104 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat104 = int(invseat104)
                invseat104-=1
                invseat104 = str(invseat104)
                cost = 80.00
                cost = str(cost)

        elif(seat == "105"):
            if(invseat105 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat105 = int(invseat105)
                invseat105-=1
                invseat105 = str(invseat105)
                cost = 80.00
                cost = str(cost)

#######MID ROW

    if(var2.get() != "Mid Row"):
        seat = var2.get()
        if(seat == "106"):
            if(invseat106 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat106 = int(invseat106)
                invseat106-=1
                invseat106 = str(invseat106)
                cost = 50.00
```

```
        cost = str(cost)

    elif(seat == "107"):
        if(invseat107 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat107 = int(invseat107)
            invseat107-=1
            invseat107 = str(invseat107)
            cost = 50.00
            cost = str(cost)

    elif(seat == "108"):
        if(invseat108 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat108 = int(invseat108)
            invseat108-=1
            invseat108 = str(invseat108)
            cost = 60.00
            cost = str(cost)

    elif(seat == "109"):
        if(invseat109 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat109 = int(invseat109)
            invseat109-=1
            invseat109 = str(invseat109)
            cost = 60.00
            cost = str(cost)

    elif(seat == "110"):
        if(invseat110 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat110 = int(invseat110)
            invseat110-=1
            invseat110 = str(invseat110)
            cost = 60.00
            cost = str(cost)
```

```
        elif(seat == "111"):
            if(invseat111 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat111 = int(invseat111)
                invseat111-=1
                invseat111 = str(invseat111)
                cost = 50.00
                cost = str(cost)

        elif(seat == "112"):
            if(invseat112 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat112 = int(invseat112)
                invseat112-=1
                invseat112 = str(invseat112)
                cost = 50.00
                cost = str(cost)

#######Balcony
    if(var3.get() != "Balcony"):
        seat = var3.get()
        if(seat == "201"):
            if(invseat201 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat201 = int(invseat201)
                invseat201-=1
                invseat201 = str(invseat201)
                cost = 20.00
                cost = str(cost)

        elif(seat == "202"):
            if(invseat202 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat202 = int(invseat202)
                invseat202-=1
                invseat202 = str(invseat202)
```

```
            cost = 20.00
            cost = str(cost)

        elif(seat == "203"):
            if(invseat203 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat203 = int(invseat203)
                invseat203-=1
                invseat203 = str(invseat203)
                cost = 30.00
                cost = str(cost)

        elif(seat == "204"):
            if(invseat204 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat204 = int(invseat204)
                invseat204-=1
                invseat204 = str(invseat204)
                cost = 30.00
                cost = str(cost)

        elif(seat == "205"):
            if(invseat205 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat205 = int(invseat205)
                invseat205-=1
                invseat205 = str(invseat205)
                cost = 40.00
                cost = str(cost)

        elif(seat == "206"):
            if(invseat206 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat206 = int(invseat206)
                invseat206-=1
                invseat206 = str(invseat206)
                cost = 40.00
```

```
        cost = str(cost)

    elif(seat == "207"):
        if(invseat207 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat207 = int(invseat207)
            invseat207-=1
            invseat207 = str(invseat207)
            cost = 40.00
            cost = str(cost)

    elif(seat == "208"):
        if(invseat208 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat208 = int(invseat208)
            invseat208-=1
            invseat208 = str(invseat208)
            cost = 30.00
            cost = str(cost)

    elif(seat == "209"):
        if(invseat209 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat209 = int(invseat209)
            invseat209-=1
            invseat209 = str(invseat209)
            cost = 30.00
            cost = str(cost)

    elif(seat == "210"):
        if(invseat210 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat210 = int(invseat210)
            invseat210-=1
            invseat210 = str(invseat210)
            cost = 20.00
            cost = str(cost)
```

```
    elif(seat == "211"):
        if(invseat211 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat211 = int(invseat211)
            invseat211-=1
            invseat211 = str(invseat211)
            cost = 20.00
            cost = str(cost)


open("TicketEv.txt","w").close()
file=open("TicketEv.txt","a")
file.write(invseat101+"\n")
file.write(invseat102+"\n")
file.write(invseat103+"\n")
file.write(invseat104+"\n")
file.write(invseat105+"\n")
file.write(invseat106+"\n")
file.write(invseat107+"\n")
file.write(invseat108+"\n")
file.write(invseat109+"\n")
file.write(invseat110+"\n")
file.write(invseat111+"\n")
file.write(invseat112+"\n")
file.write(invseat201+"\n")
file.write(invseat202+"\n")
file.write(invseat203+"\n")
file.write(invseat204+"\n")
file.write(invseat205+"\n")
file.write(invseat206+"\n")
file.write(invseat207+"\n")
file.write(invseat208+"\n")
file.write(invseat209+"\n")
file.write(invseat210+"\n")
file.write(invseat211+"\n")
file.close()

global screen11
screen11= tk.Tk()
```

```
   screen11.title("Ticket")
   screen11.geometry("600x350")
   screen11.config(bg = ('black'))
   Label(screen11, text = "Ticket Stub",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen11, text =
"Username-"+username_verify.get(),font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen11, text = "Seat Number-"+seat,font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()
   Label(screen11, text = "Seat Price-"+cost,font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen11, text = "Seating is genreal admission for all
sections",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
   Label(screen11, text = "No Refunds",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
   Label(screen11, text = "Show Ticket at Door",font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()


#################################################################

def buyticketmat():

   fileEV=open("seat_inv_user_n.txt","a")
   try:
      with open("TicketNight.txt","r") as fileseat:
         invseat101 = IntVar()
         invseat101 = next(fileseat).rstrip()
         invseat102 = next(fileseat).rstrip()
         invseat103 = next(fileseat).rstrip()
         invseat104 = next(fileseat).rstrip()
         invseat105 = next(fileseat).rstrip()
         invseat106 = next(fileseat).rstrip()
         invseat107 = next(fileseat).rstrip()
         invseat108 = next(fileseat).rstrip()
         invseat109 = next(fileseat).rstrip()
         invseat110 = next(fileseat).rstrip()
         invseat111 = next(fileseat).rstrip()
         invseat112 = next(fileseat).rstrip()
         invseat201 = next(fileseat).rstrip()
```

```
            invseat202 = next(fileseat).rstrip()
            invseat203 = next(fileseat).rstrip()
            invseat204 = next(fileseat).rstrip()
            invseat205 = next(fileseat).rstrip()
            invseat206 = next(fileseat).rstrip()
            invseat207 = next(fileseat).rstrip()
            invseat208 = next(fileseat).rstrip()
            invseat209 = next(fileseat).rstrip()
            invseat210 = next(fileseat).rstrip()
            invseat211 = next(fileseat).rstrip()
    except StopIteration:
        pass
######Front Row

    if(var1.get()!= "frontrow"):
        seat = var1.get()
        if(seat == "101"):
            if(seat101 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat101 = int(invseat101)
                invseat101-=1
                invseat101 = str(invseat101)
                cost = 50.00
                cost = str(cost)

        elif(seat == "102"):
            if(invseat102 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat102 = int(invseat102)
                invseat102-=1
                invseat102 = str(invseat102)
                cost = 50.00
                cost = str(cost)

        elif(seat == "103"):
            if(invseat103 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat103 = int(invseat103)
```

```
            invseat103-=1
            invseat103 = str(invseat103)
            cost = 50.00
            cost = str(cost)

        elif(seat == "104"):
            if(invseat104 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat104 = int(invseat104)
                invseat104-=1
                invseat104 = str(invseat104)
                cost = 50.00
                cost = str(cost)

        elif(seat == "105"):
            if(invseat105 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat105 = int(invseat105)
                invseat105-=1
                invseat105 = str(invseat105)
                cost = 50.00
                cost = str(cost)

#######MID ROW

    if(var2.get() != "Mid Row"):
        seat = var2.get()
        if(seat == "106"):
            if(invseat106 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat106 = int(invseat106)
                invseat106-=1
                invseat106 = str(invseat106)
                cost = 30.00
                cost = str(cost)

        elif(seat == "107"):
            if(invseat107 == "0"):
```

```
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat107 = int(invseat107)
            invseat107-=1
            invseat107 = str(invseat107)
            cost = 30.00
            cost = str(cost)

    elif(seat == "108"):
        if(invseat102 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat108 = int(invseat108)
            invseat108-=1
            invseat108 = str(invseat108)
            cost = 40.00
            cost = str(cost)

    elif(seat == "109"):
        if(invseat109 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat109 = int(invseat109)
            invseat109-=1
            invseat109 = str(invseat109)
            cost = 40.00
            cost = str(cost)

    elif(seat == "110"):
        if(invseat110 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat110 = int(invseat110)
            invseat110-=1
            invseat110 = str(invseat110)
            cost = 40.00
            cost = str(cost)

    elif(seat == "111"):
        if(invseat111 == "0"):
            messagebox.showerror("Error","SOLD OUT")
```

```
            else:
                invseat111 = int(invseat111)
                invseat111-=1
                invseat111 = str(invseat111)
                cost = 30.00
                cost = str(cost)

        elif(seat == "112"):
            if(invseat112 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat112 = int(invseat112)
                invseat112-=1
                invseat112 = str(invseat112)
                cost = 30.00
                cost = str(cost)

#######Balcony
    if(var3.get() != "Balcony"):
        seat = var3.get()
        if(seat == "201"):
            if(seat201 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat201 = int(invseat201)
                invseat201-=1
                invseat201 = str(invseat201)
                cost = 10.00
                cost = str(cost)

        elif(seat == "202"):
            if(invseat202 == "0"):
                messagebox.showerror("Error","SOLD OUT")
            else:
                invseat202 = int(invseat202)
                invseat202-=1
                invseat202 = str(invseat202)
                cost = 10.00
                cost = str(cost)

        elif(seat == "203"):
```

```
    if(invseat203 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat203 = int(invseat203)
        invseat203-=1
        invseat203 = str(invseat203)
        cost = 15.00
        cost = str(cost)

elif(seat == "204"):
    if(invseat204 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat204 = int(invseat204)
        invseat204-=1
        invseat204 = str(invseat204)
        cost = 15.00
        cost = str(cost)

elif(seat == "205"):
    if(invseat205 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat205 = int(invseat205)
        invseat205-=1
        invseat205 = str(invseat205)
        cost = 20.00
        cost = str(cost)

elif(seat == "206"):
    if(invseat206 == "0"):
        messagebox.showerror("Error","SOLD OUT")
    else:
        invseat206 = int(invseat206)
        invseat206-=1
        invseat206 = str(invseat206)
        cost = 20.00
        cost = str(cost)

elif(seat == "207"):
    if(invseat207 == "0"):
```

```
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat207 = int(invseat207)
            invseat207-=1
            invseat207 = str(invseat207)
            cost = 20.00
            cost = str(cost)

    elif(seat == "208"):
        if(invseat208 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat208 = int(invseat208)
            invseat208-=1
            invseat208 = str(invseat208)
            cost = 15.00
            cost = str(cost)

    elif(seat == "209"):
        if(invseat209 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat209 = int(invseat209)
            invseat209-=1
            invseat209 = str(invseat209)
            cost = 15.00
            cost = str(cost)

    elif(seat == "210"):
        if(invseat210 == "0"):
            messagebox.showerror("Error","SOLD OUT")
        else:
            invseat210 = int(invseat210)
            invseat210-=1
            invseat210 = str(invseat210)
            cost = 10.00
            cost = str(cost)

    elif(seat == "211"):
        if(invseat211 == "0"):
            messagebox.showerror("Error","SOLD OUT")
```

```
        else:
            invseat211 = int(invseat211)
            invseat211-=1
            invseat211 = str(invseat211)
            cost = 10.00
            cost = str(cost)


open("TicketNight.txt","w").close()
file=open("TicketNight.txt","a")
file.write(invseat101+"\n")
file.write(invseat102+"\n")
file.write(invseat103+"\n")
file.write(invseat104+"\n")
file.write(invseat105+"\n")
file.write(invseat106+"\n")
file.write(invseat107+"\n")
file.write(invseat108+"\n")
file.write(invseat109+"\n")
file.write(invseat110+"\n")
file.write(invseat111+"\n")
file.write(invseat112+"\n")
file.write(invseat201+"\n")
file.write(invseat202+"\n")
file.write(invseat203+"\n")
file.write(invseat204+"\n")
file.write(invseat205+"\n")
file.write(invseat206+"\n")
file.write(invseat207+"\n")
file.write(invseat208+"\n")
file.write(invseat209+"\n")
file.write(invseat210+"\n")
file.write(invseat211+"\n")
file.close()

global screen12
screen12= tk.Tk()
screen12.title("Ticket")
screen12.geometry("600x350")
screen12.config(bg = ('black'))
```

```
    Label(screen12, text = "Ticket Stub",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen12, text =
"Username-"+username_verify.get(),font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen12, text = "Seat Number-"+seat,font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()
    Label(screen12, text = "Seat Price-"+cost,font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen12, text = "Seating is genreal admission for all
sections",font=("Helvetica",14,"bold"),bg = "Black", fg= "Gold").pack()
    Label(screen12, text = "No Refunds",font=("Helvetica",14,"bold"),bg = "Black", fg=
"Gold").pack()
    Label(screen12, text = "Show Ticket at Door",font=("Helvetica",14,"bold"),bg = "Black",
fg= "Gold").pack()


def managerLogin():
    #login()

    root = tk.Tk()
    root.geometry('300x300')
    root.title('TICKETS')
    root.config(bg = ('black'))

    t1 = open("TicketNight.txt","r")
    seatinv1 = t1.readlines()

    t2 = open("TicketEv.txt","r")
    seatinv2 = t2.readlines()


    # progressbar
    manLabel1= tk.Label(root,text='Matinee', font=("Helvetica",26,"bold"), fg="Gold", bg
="Black")
    manLabel1.pack()
    pb = ttk.Progressbar(root,orient='horizontal',mode='determinate',length=280)

    # place the progressbar
    pb.pack()
```

```
    i=0
    total=0
    while (i < 22):
        seatinv1[i] = int(seatinv1[i])
        total=total+seatinv1[i]
        i+=1
    fill = total
    total = str(total)
    tk.Label(root,text=total+"/750",font=("Helvetica",26,"bold"), fg="Gold", bg
="Black").pack()
    total = int(total)


    while (fill > 0 ):
        pb ["value"] += 0.134
        fill-=1


    #####
    manLabel2= tk.Label(root,text='Evening', font=("Helvetica",26,"bold"), fg="Gold", bg
="Black")
    manLabel2.pack()
    pb2 = ttk.Progressbar(root,orient='horizontal',mode='determinate',length=280)

    # place the progressbar
    pb2.pack()

    i=0
    total=0
    while (i < 22):
        seatinv2[i] = int(seatinv2[i])
        total=total+seatinv2[i]
        i+=1
    fill = total
    total = str(total)
    tk.Label(root,text=total+"/750",font=("Helvetica",26,"bold"), fg="Gold", bg
="Black").pack()
    total = int(total)

    while (total > 0 ):
        pb2 ["value"] += 0.134
```

```
    total-=1


#############################################################################
######################
def cancel():
   screen.destroy()
#############################################################################
######################
def main_screen():
   global screen
#Top
   screen= tk.Tk()
   screen.title("TicketPlace")
   screen.minsize(width=550,height=200)
   screen.resizable(False,False)
   screen.config(bg = ('black'))
#colum configurations
   screen.columnconfigure(0, minsize = 150)
   screen.columnconfigure(1, minsize = 175)
   screen.columnconfigure(2, minsize = 150)
   screen.rowconfigure(0, minsize = 50)
   screen.rowconfigure(1, minsize = 75)
   screen.rowconfigure(2, minsize = 100)
#Logo/header
   screen.heading_label = tk.Label(text='Filly-Tix Concert', font=("Helvetica",26,"bold"),
fg="Gold", bg ="Black")
   screen.heading_label.grid(row=0,column=1)
#Picture For theater import
   photo = tk.PhotoImage(file="logo.gif")
   theater_pic= tk.Label(image= photo)
   theater_pic.image = photo
   theater_pic.grid(row=1, column=0, columnspan=3)
#Register Button
   register_button = Button(screen, text=' New Account ',
width=16,font=("helvetica",15,"bold"),bg = "Black", fg= "Gold", command=register)
   register_button.grid(row=2,column=2,padx=5,pady=5)
#Login Button
   login_button = Button(text=' Login ', width=16,font=("helvetica",15,"bold"),bg =
"Black", fg= "Gold",command=login)
   login_button.grid(row=2,column=1,padx=15,pady=5)
```

```
#Close Button
   cancel_button = Button(screen, text=' Exit ', width=16,font=("helvetica",15,"bold"),bg =
"Black", fg= "Gold",command=cancel)
   cancel_button.grid(row=2,column=0,padx=5,pady=5)
main_screen()
```