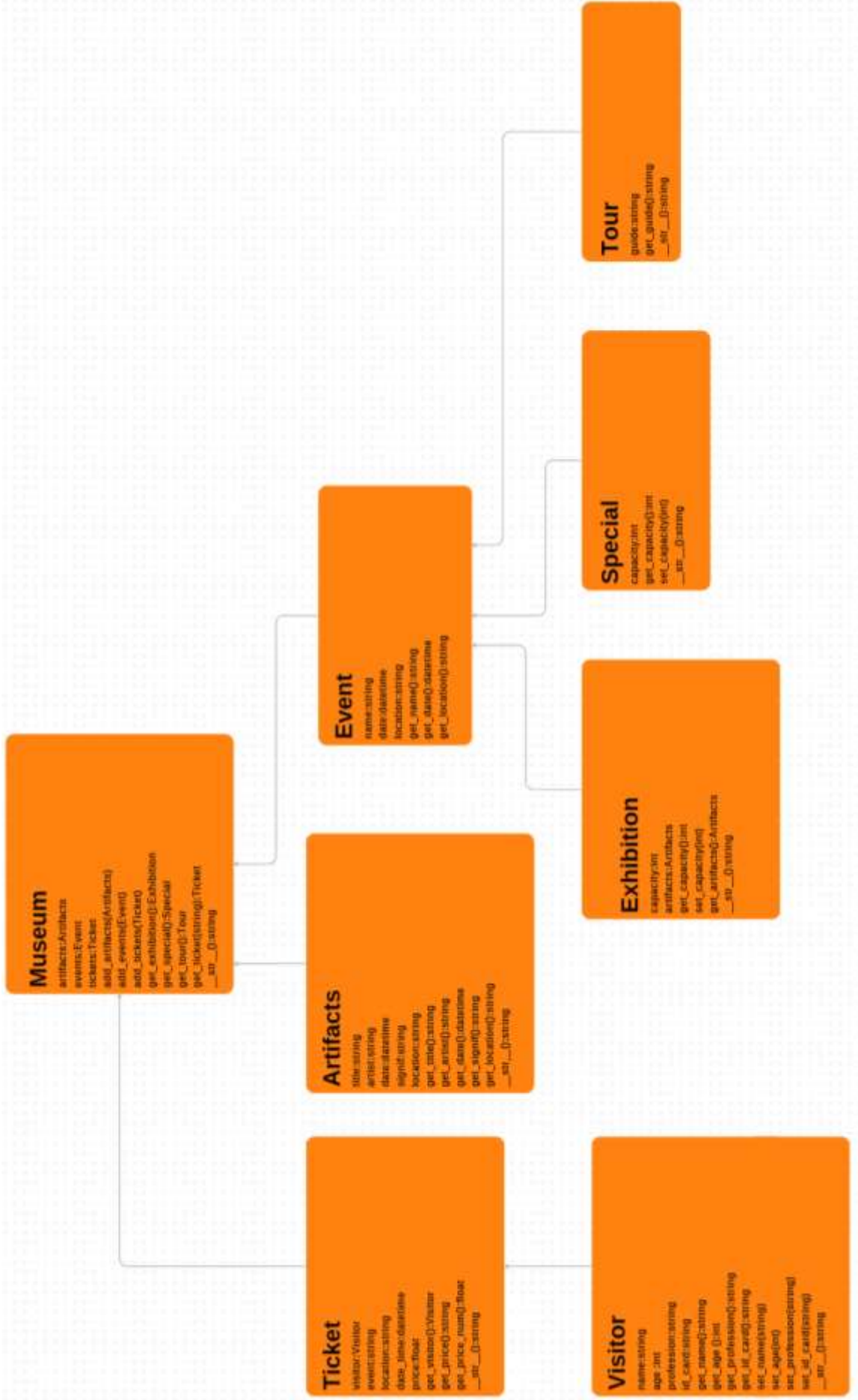


## **UML Diagram:**



## Visitor:

This class holds information about the individual visitor such as name age profession etc.

class Visitor:

```
def __init__(self,name,age,profession,id_card=None):
```

```
    self.name=name
```

```
    self.age=age
```

```
    self.profession=profession
```

```
    self.id_card=id_card
```

```
def get_name(self):
```

```
    return self.name
```

```
def get_age(self):
```

```
    return self.age
```

```
def get_profession(self):
```

```
    return self.profession
```

```
def get_id_card(self):
```

```
    return self.id_card
```

```
def set_name(self,name):
```

```
    self.name=name
```

```
def set_age(self,age):
```

```
    self.age=age
```

```
def set_profession(self,profession):
```

```
self.profession=profession
```

```
def set_id_card(self,id_card):
```

```
    self.id_card=id_card
```

```
def __str__(self):
```

```
    ret = f"Name:{self.name},Age:{self.age},Profession:{self.profession}"
```

```
    if(self.id_card):
```

```
        ret+=f",ID card={self.id_card}"
```

```
    return ret
```

## **Tickets:**

This class holds information about the ticket of an individual visitor and holds the visitor information using an instance of visitor class.

```
from Visitor import Visitor
```

```
import datetime
```

```
class Ticket:
```

```
    def __init__(self,visitor:Visitor,event,location,date_time:datetime.datetime,group=False,price=None):
```

```
        self.visitor=visitor
```

```
        self.event=event
```

```
        self.location=location
```

```
        self.date_time=date_time
```

```
        if not price:
```

```
            price=(63+(63*0.1))
```

```
        if group:
```

```
            self.price=price*0.5
```

```
        else:
```

```
            if visitor.get_age()>=18 and visitor.get_age()<=60:
```

```
                self.price=price
```

```

        else:
            if visitor.get_id_card():
                self.price=0
            else:
                self.price=price

    def get_visitor(self):
        return self.visitor

    def get_price(self):
        return f"{self.price} AED"

    def get_price_num(self):
        return self.price

    def __str__(self):
        return
        f"{self.visitor.__str__()},Event:{self.event},Location:{self.location},Date:{self.date_time.date()},Time:{self
        .date_time.time()}"

```

## **Artifacts:**

This class holds information related to the artifacts present in the Museum that includes its name ,artist date etc.

```
import datetime
```

```

class Artifacts:

    def __init__(self,title,artist,date:datetime.datetime,signif,location):

        self.title=title

        self.artist=artist

        self.date=date

```

```
self.signif=signif
self.location=location

def get_title(self):
    return self.title

def get_artist(self):
    return self.artist

def get_signif(self):
    return self.signif

def get_date(self):
    return self.date

def get_location(self):
    return self.location

def __str__(self):
    return f"Title:{self.title},Artist:{self.artist},Historical
significance:{self.signif},Date:{self.date.date()},Location:{self.location}"
```

## **Event:**

This class acts as a base class for all the events that happen in the museum. This includes the event name date and location.

## **Exhibition:**

This class inherits from Event class and includes additional information such as the artifacts present in the exhibition for the visitors.

## **Special:**

This class also inherits from Event class and includes additional information such as the maximum number of visitors for the event.

## **Tour:**

This class also inherits from Event class and includes additional information such as the guide name who will guide the group to the museum.

```
import datetime
```

```
class Event:
```

```
    def __init__(self,name,location,date_time:datetime.datetime):
```

```
        self.name=name
```

```
        self.location=location
```

```
        self.date_time=date_time
```

```
    def get_name(self):
```

```
        return self.name
```

```
    def get_location(self):
```

```
        return self.location
```

```
    def get_date_time(self):
```

```
        return self.date_time
```

```
class Exhibition(Event):
```

```
    def __init__(self, name, location, date_time: datetime.datetime,artifacts,capacity):
```

```
        super().__init__(name, location, date_time)
```

```
        self.artifacts=[i for i in artifacts if location==i.get_location()]
```

```
        self.capacity=capacity
```

```

def get_capacity(self):
    return self.capacity

def set_capacity(self, capacity):
    self.capacity = capacity

def set_artifacts(self, artifacts):
    del self.artifacts
    self.artifacts = [i for i in artifacts if self.location == i.get_location()]

def __str__(self):
    artifacts = ""
    for i in self.artifacts:
        artifacts += i.get_title()

    return f"Event
name: {self.name}, Location: {self.location}, Date: {self.date_time.date()}, Time: {self.date_time.time()}, Tickets left: {self.capacity}\nArtifacts: {artifacts}"

class Tour(Event):
    def __init__(self, name, date_time: datetime.datetime, guide):
        self.location = "Museum"
        self.guide = guide
        super().__init__(name, self.location, date_time)

    def get_guide(self):
        return self.guide

    def __str__(self) -> str:

```



```
        return f"Event
name:{self.name},Location:{self.location},Date:{self.date_time.date()},Time:{self.date_time.time()},Guide:{self.guide}"
```

```
class Special(Event):
```

```
    def __init__(self, name, location, date_time: datetime.datetime,capacity):
```

```
        super().__init__(name, location, date_time)
```

```
        self.capacity=capacity
```

```
    def get_capacity(self):
```

```
        return self.capacity
```

```
    def set_capacity(self,capacity):
```

```
        self.capacity=capacity
```

```
    def __str__(self) -> str:
```

```
        return f"Event
```

```
name:{self.name},Location:{self.location},Date:{self.date_time.date()},Time:{self.date_time.time()},Tickets left={self.capacity}"
```

## **Museum:**

This class holds all the information related to the museum such as artifacts, tickets sold and the events that will happen at the museum and provide function to add values to different instances of classes.

```
from Ticket import Ticket
```

```
from Visitor import Visitor
```

```
from Artifacts import Artifacts
```

```
import Event
```

```
min_group_num=3
```

```
class Museum:
```

```

def __init__(self):
    self.artifacts=[]
    self.events=[]
    self.tickets=[]

def add_artifacts(self,artifact:Artifacts):
    fil=[i for i in self.artifacts if i.get_title()==artifact.get_title() and i.get_artist()==artifact.location()]
    if(len(fil)>0):
        return "Cannot add Artifact as it is already present"
    else:
        self.artifacts.append(artifact)
        for i in self.get_exhibition():
            i.set_artifacts(self.artifacts)
        return "Artifact successfully added"

def add_events(self,event):
    fil=[i for i in self.events if (i.get_location()==event.get_location() and
i.get_date_time()==event.get_date_time() )]
    if(len(fil)>0):
        return "Cannot add Artifact as it is already present"
    else:
        self.events.append(event)
        return "Artifact successfully added"

def add_tickets(self,ticket:Ticket):
    self.tickets.append(ticket)

def get_exhibition(self):
    fil=[ i for i in self.events if isinstance(i,Event.Exhibition) ]

```

```
    return fil
```

```
def get_artifacts(self):
```

```
    return self.artifacts
```

```
def get_tour(self):
```

```
    fil=[ i for i in self.events if isinstance(i,Event.Tour) ]
```

```
    return fil
```

```
def get_special(self):
```

```
    fil=[ i for i in self.events if isinstance(i,Event.Special) ]
```

```
    return fil
```

```
def get_ticket(self,name):
```

```
    fil=[i for i in self.tickets if i.get_visitor().get_name()==name]
```

```
    return fil
```

```
def buy_ticket(name,age,profession,event,museum:Museum,id_card=None):
```

```
ticket=Ticket(Visitor(name,age,profession,id_card),event.get_name(),event.get_location(),event.get_date_time())
```

```
    museum.add_tickets(ticket)
```

## **Main function/file:**

```
from tkinter import *
```

```
from tkinter import messagebox
```

```
import Museum
```

```
from Artifacts import Artifacts
```

```
from Visitor import Visitor
```

```
from Ticket import Ticket
```

```
import datetime
```

```
import Event
```

```
tour_min=2
```

```
tour_max=5
```

```
class main_menu:
```

```
    def __init__(self):
```

```
        self.root=Tk()
```

```
        self.root.title("Museum")
```

```
        self.root.geometry("852x560")
```

```
        self.museum=Museum.Museum()
```

```
        self.museum.add_artifacts(Artifacts("Pyramid", "James", datetime.datetime(1850,5,12), "lorem  
ahjsdhasid", "Outdoor spaces"))
```

```
        self.museum.add_events(Event.Exhibition("Mona Lisa", "Exhibition  
halls", datetime.datetime(2000,3,4), self.museum.artifacts, 12))
```

```
        self.museum.add_events(Event.Tour("Mona Lisa", datetime.datetime(2000,3,4), "Sam Smith"))
```

```
    def menu(self):
```

```
        self.clear()
```

```
        Label(self.root, text="The Louvre Museum", font=('Arial', 20, 'bold')).pack(pady=10)
```

```
        Button(self.root, padx=10, pady=5, text="View artifacts", command= self.view_artifacts_gui  
) .pack(padx=50, pady=5)
```

```
        Button(self.root, padx=10, pady=5, text="Add artifacts", command= self.add_artifacts_gui  
) .pack(padx=50, pady=5)
```

```
        Button(self.root, padx=10, pady=5, text="View Exhibition events", command=  
self.view_exhibition_event_gui ).pack(padx=50, pady=5)
```

```
        Button(self.root, padx=10, pady=5, text="Add Exhibition Event", command=  
self.add_exhibition_event_gui ).pack(padx=50, pady=5)
```

```
        Button(self.root, padx=10, pady=5, text="View Special Event", command=  
self.view_special_event_gui ).pack(padx=50, pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Add Special Event",command= self.add_special_event_gui
).pack(padx=50,pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="View Tour Event",command= self.view_tour_event_gui
).pack(padx=50,pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Add Tour Event",command= self.add_tour_event_gui
).pack(padx=50,pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Buy exhibition events ticket",command=
self.view_exhibition_ticket ).pack(padx=50,pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Buy tour ticket",command= self.view_tour_ticket
).pack(padx=50,pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Buy special events ticket",command=
self.view_special_ticket ).pack(padx=50,pady=5)
```

# exhibition event functions

```
def view_exhibition_event_gui(self):
```

```
    self.clear()
```

```
    for i in self.museum.get_exhibition():
```

```
        Label(self.root,text=f"-> {i.__str__()}").pack(pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Back",command= self.menu ).pack(padx=50,pady=5)
```

```
def add_exhibition_event_gui(self):
```

```
    self.clear()
```

# event name

```
    Label(self.root,text="Event name:").pack()
```

```
    self.exhibition_event_name=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
```

```
    self.exhibition_event_name.pack(padx=50,pady=5,ipadx=5,ipady=3)
```

# date

```
    Label(self.root,text="Event Date(Year-Month-Day):").pack()
```

```

self.exhibition_event_date=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
self.exhibition_event_date.pack(padx=50,pady=5,ipadx=5,ipady=3)

# capacity
Label(self.root,text="Event maximum capacity:").pack()
self.exhibition_event_capacity=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
self.exhibition_event_capacity.pack(padx=50,pady=5,ipadx=5,ipady=3)

# location
location_options=[
    "Permanent galleries",
    "Exhibition halls",
    "Outdoor spaces"
]
self.exhibition_event_location=StringVar()
self.exhibition_event_location.set(None)
Label(self.root,text="Event Location:").pack()
for i in location_options:
    Radiobutton(self.root, text=f"{i}", variable=self.exhibition_event_location, value=f"{i}" ).pack()

# add button
Button(self.root, padx=10,pady=5 , text="Add event",command=
self.add_exhibition_event).pack(padx=20,pady=5)

def add_exhibition_event(self):
    artifacts=[i for i in self.museum.artifacts if i.get_location()==self.exhibition_event_location.get()]
    date=self.exhibition_event_date.get().split("-")
    if(len(date)<3):
        messagebox.showerror("Error","Date format in incorrect.Please try again")

```

```

else:

    self.museum.add_events(Event.Exhibition(

        self.exhibition_event_name.get()

        ,self.exhibition_event_location.get(),

        datetime.datetime( int(date[0]) , int(date[1]) , int(date[2]) ) ,

        artifacts ,

        int(self.exhibition_event_capacity.get())

    ) )

self.menu()

```

# special event functions

```

def view_special_event_gui(self):

    self.clear()

    for i in self.museum.get_special():

        Label(self.root,text=f"-> {i.__str__()}").pack(pady=5)

        Button(self.root, padx=10,pady=5 , text="Back",command= self.menu ).pack(padx=50,pady=5)

```

```

def add_special_event_gui(self):

    self.clear()

    # event name

    Label(self.root,text="Event name:").pack()

    self.special_event_name=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)

    self.special_event_name.pack(padx=50,pady=5,ipadx=5,ipady=3)

```

```

# date

Label(self.root,text="Event Date(Year-Month-Day):").pack()

self.special_event_date=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)

```

```

self.special_event_date.pack(padx=50,pady=5,ipadx=5,ipady=3)

# capacity
Label(self.root,text="Event maximum capacity:").pack()
self.special_event_capacity=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
self.special_event_capacity.pack(padx=50,pady=5,ipadx=5,ipady=3)

# location
location_options=[
    "Permanent galleries",
    "special halls",
    "Outdoor spaces"
]
self.special_event_location=StringVar()
self.special_event_location.set(None)
Label(self.root,text="Event Location:").pack()
for i in location_options:
    Radiobutton(self.root, text=f"{i}", variable=self.special_event_location, value=f"{i}" ).pack()

# add button
Button(self.root, padx=10,pady=5 , text="Add event",command=
self.add_special_event).pack(padx=20,pady=5)

def add_special_event(self):
    date=self.special_event_date.get().split("-")
    if(len(date)<3):
        messagebox.showerror("Error","Date format in incorrect.Please try again")
    else:
        self.museum.add_events(Event.Special(

```



```

        self.special_event_name.get()
        ,self.special_event_location.get(),
        datetime.datetime( int(date[0]) , int(date[1]) , int(date[2]) ) ,
        int(self.special_event_capacity.get())
    ) )
    self.menu()

```

# tour event functions

```

def view_tour_event_gui(self):
    self.clear()
    for i in self.museum.get_tour():
        Label(self.root,text=f"-> {i.__str__()}").pack(pady=5)
        Button(self.root, padx=10,pady=5 , text="Back",command= self.menu ).pack(padx=50,pady=5)

```

```

def add_tour_event_gui(self):
    self.clear()

    # event name
    Label(self.root,text="Event name:").pack()
    self.tour_event_name=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
    self.tour_event_name.pack(padx=50,pady=5,ipadx=5,ipady=3)

```

```

    # date
    Label(self.root,text="Event Date(Year-Month-Day):").pack()
    self.tour_event_date=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
    self.tour_event_date.pack(padx=50,pady=5,ipadx=5,ipady=3)

```

```

    # guide

```

```

Label(self.root,text="Event guide name:").pack()

self.tour_event_guide=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)

self.tour_event_guide.pack(padx=50,pady=5,ipadx=5,ipady=3)


# add button

Button(self.root, padx=10,pady=5 , text="Add event",command=
self.add_tour_event).pack(padx=20,pady=5)


def add_tour_event(self):

    date=self.tour_event_date.get().split("-")

    if(len(date)<3):

        messagebox.showerror("Error","Date format in incorrect.Please try again")

    else:

        self.museum.add_events(Event.Tour(

            self.tour_event_name.get(),

            datetime.datetime( int(date[0]) , int(date[1]) , int(date[2]) ) ,

            self.tour_event_guide.get()

        ) )

        self.menu()


# tour tickets functions


def view_tour_ticket(self):

    self.clear()


    self.visitor=None

    self.visitors=[]

    tour=[i for i in self.museum.events if isinstance(i,Event.Tour)]

    if len(tour)==0:

```

```

messagebox.showinfo("Sorry","There are currently no Group Tours")

self.menu()

else:

    event=IntVar()

    event.set(0)

    cnt=0

    for value in tour:

        Radiobutton(self.root, text=f"{value.__str__()}", variable=event, value=f"{cnt}" ).pack()

        cnt+=1

    self.total_visitors=Label(self.root,text=f"Total
visitors:{len(self.visitors)}(Min={tour_min},Max={tour_max})")

    self.total_visitors.pack()

    Button(self.root, padx=10,pady=5 , text="Enter Visitors Information",command= (

        lambda: self.get_visitor( 1 )

    ) ).pack(padx=20,pady=5)

    Button(self.root, padx=10,pady=5 , text="Buy ticket",command= (lambda:
self.buy_tour_ticket(tour[event.get()])) ).pack(padx=20,pady=5)


def buy_tour_ticket(self,event):

    if len(self.visitors)<tour_min or len(self.visitors)>tour_max:

        messagebox.showerror("Error","Incorrect number of visitors.Please try again")

        self.menu()

    else:

        price=0

        out=""

        for i in self.visitors:

            ticket=Ticket(i,event.get_name(),event.get_location(),event.get_date_time(),True)

            self.museum.add_tickets(ticket)

            messagebox.showinfo("Ticket Successfull",f"{ticket.__str__()}" )

```

```
        price+=ticket.get_price_num()

    messagebox.showinfo("Ticket Successfull",f"Total Bill:{price} AED")

    self.menu()
```

# exhibition tickets functions

```
def view_exhibition_ticket(self):

    self.clear()

    self.visitor=None

    exhibition=self.museum.get_exhibition()

    if len(exhibition)==0:

        messagebox.showinfo("Sorry","There are currently no Exhibition events")

        self.menu()

    else:

        event=IntVar()

        event.set(0)

        cnt=0

        for value in exhibition:

            Radiobutton(self.root, text=f"{value.__str__()}", variable=event, value=f"{cnt}" ).pack()

            cnt+=1

        Button(self.root, padx=10,pady=5 , text="Enter Visitor Information",command=
self.get_visitor).pack(padx=20,pady=5)

        Button(self.root, padx=10,pady=5 , text="Buy ticket",command= (lambda:
self.buy_exhibition_ticket(exhibition[event.get()]))) ).pack(padx=20,pady=5)

def buy_exhibition_ticket(self,event):

    if self.visitor==None and event.get_capacity()>0:
```

```

        messagebox.showerror("Error", "Please enter visitor information")

        self.menu()

    else:

        ticket=Ticket(self.visitor,event.get_name(),event.get_location(),event.get_date_time())

        self.museum.add_tickets(ticket)

        event.set_capacity(event.get_capacity()-1)

        messagebox.showinfo("Ticket Successfull",f"{ticket.__str__()},Total Bill:{ticket.get_price()}")

        self.menu()

```

# special tickets functions

```

def view_special_ticket(self):

    self.clear()

    self.visitor=None

    special=self.museum.get_special()

    if len(special)==0:

        messagebox.showinfo("Sorry", "There are currently no Special events")

        self.menu()

    else:

        event=IntVar()

        event.set(0)

        cnt=0

        for value in special:

            Radiobutton(self.root, text=f"{value.__str__()}", variable=event, value=f"{cnt}" ).pack()

            cnt+=1

        Button(self.root, padx=10,pady=5 , text="Enter Visitor Information",command=
self.get_visitor).pack(padx=20,pady=5)

```

```
Button(self.root, padx=10,pady=5 , text="Buy ticket",command= (lambda:
self.buy_special_ticket(special[event.get()])) ).pack(padx=20,pady=5)
```

```
def buy_special_ticket(self,event):
    if self.visitor==None and event.get_capacity()>0:
        messagebox.showerror("Error","Please enter visitor information")
        self.menu()
    else:
        ticket=Ticket(self.visitor,event.get_name(),event.get_location(),event.get_date_time())
        self.museum.add_tickets(ticket)
        event.set_capacity(event.get_capacity()-1)
        messagebox.showinfo("Ticket Successfull",f"{ticket.__str__()},Total Bill:{ticket.get_price()}")
        self.menu()
```

# tickets helper functions

```
def get_visitor(self,tour=None):
    new_window=Toplevel(self.root)
    new_window.title("Visitor Information")
    new_window.geometry("852x520")

    # name
    Label(new_window,text="Visitor name:").pack()
    self.visitor_name=Entry(new_window,width=50,highlightthickness=2,borderwidth=0)
    self.visitor_name.pack(padx=50,pady=5,ipadx=5,ipady=3)

    # age
    Label(new_window,text="Visitor age:").pack()
    self.visitor_age=Entry(new_window,width=50,highlightthickness=2,borderwidth=0)
```

```

self.visitor_age.pack(padx=50,pady=5,ipadx=5,ipady=3)

# profession
Label(new_window,text="Visitor profession:").pack()
self.visitor_profession=Entry(new_window,width=50,highlightthickness=2,borderwidth=0)
self.visitor_profession.pack(padx=50,pady=5,ipadx=5,ipady=3)

# id_card
Label(new_window,text="Visitor ID card(Optional):").pack()
self.visitor_id_card=Entry(new_window,width=50,highlightthickness=2,borderwidth=0)
self.visitor_id_card.pack(padx=50,pady=5,ipadx=5,ipady=3)

Button(new_window, padx=10,pady=5 , text="Next",command= (lambda:
self.assign_visitor(new_window,tour))).pack(padx=20,pady=5)

new_window.mainloop()

def assign_visitor(self,new_window,tour=None):
    if self.visitor_id_card.get()=="":
        self.visitor_id_card=None
    else:
        self.visitor_id_card=self.visitor_id_card.get()

self.visitor=Visitor(self.visitor_name.get(),int(self.visitor_age.get()),self.visitor_profession.get(),self.visitor_id_card)

new_window.destroy()

if tour:
    self.visitors.append(self.visitor)

    self.total_visitors.config(text=f"Total
visitors:{len(self.visitors)}(Min={tour_min},Max={tour_max})")

```

```
# artifacts functions
```

```
def view_artifacts_gui(self):
```

```
    self.clear()
```

```
    for i in self.museum.get_artifacts():
```

```
        Label(self.root,text=f"-> {i.__str__()}").pack(pady=5)
```

```
    Button(self.root, padx=10,pady=5 , text="Back",command= self.menu ).pack(padx=50,pady=5)
```

```
def add_artifacts_gui(self):
```

```
    self.clear()
```

```
    # title
```

```
    Label(self.root,text="Artifact Title:").pack()
```

```
    self.artifact_name=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
```

```
    self.artifact_name.pack(padx=50,pady=5,ipadx=5,ipady=3)
```

```
    # artist
```

```
    Label(self.root,text="Artifact Artist:").pack()
```

```
    self.artifact_artist=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
```

```
    self.artifact_artist.pack(padx=50,pady=5,ipadx=5,ipady=3)
```

```
    # date
```

```
    Label(self.root,text="Artifact Date(Year-Month-Day):").pack()
```

```
    self.artifact_date=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
```

```
    self.artifact_date.pack(padx=50,pady=5,ipadx=5,ipady=3)
```

```
    # historical significance
```

```
    Label(self.root,text="Artifact historical significance:").pack()
```

```
    self.artifact_signif=Entry(self.root,width=50,highlightthickness=2,borderwidth=0)
```

```
    self.artifact_signif.pack(padx=50,pady=5,ipadx=5,ipady=3)
```



```

# location

location_options=[
    "Permanent galleries",
    "Exhibition halls",
    "Outdoor spaces"
]

self.artifact_location=StringVar()
self.artifact_location.set(None)

Label(self.root,text="Artifact Location:").pack()

for i in location_options:
    Radiobutton(self.root, text=f"{i}", variable=self.artifact_location, value=f"{i}" ).pack()


# add button

Button(self.root, padx=10,pady=5 , text="Add artifacts",command=
self.add_artifact).pack(padx=20,pady=5)


def add_artifact(self):
    date=self.artifact_date.get().split("-")
    if(len(date)<3):
        messagebox.showerror("Error","Date format in incorrect.Please try again")
    else:

self.museum.add_artifacts(Artifacts(self.artifact_name.get(),self.artifact_artist.get(),datetime.datetime(
int(date[0]) , int(date[1]) , int(date[2]) ) , self.artifact_signif.get() , self.artifact_location.get() ) )

    self.menu()


def clear(self):
    for i in self.root.pack_slaves():
        i.destroy()

```

```
def run(self):
```

```
    self.root.mainloop()
```

```
menu=main_menu()
```

```
menu.menu()
```

```
menu.run()
```