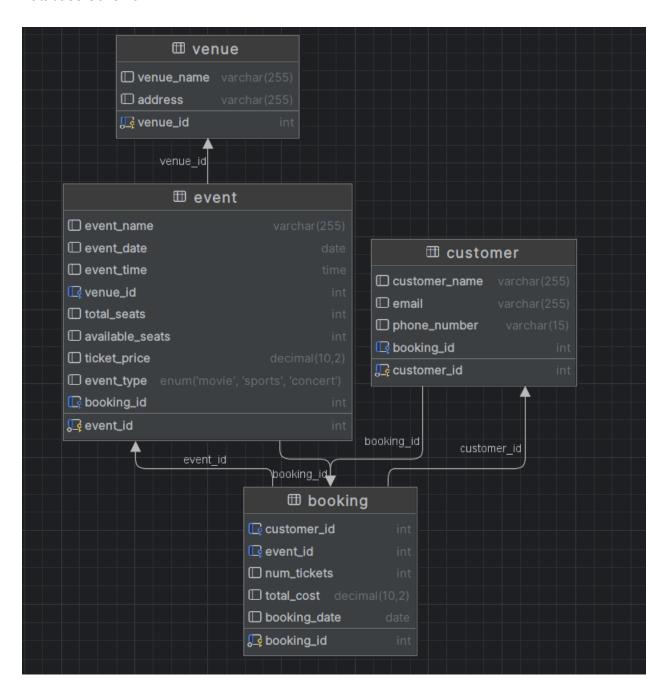
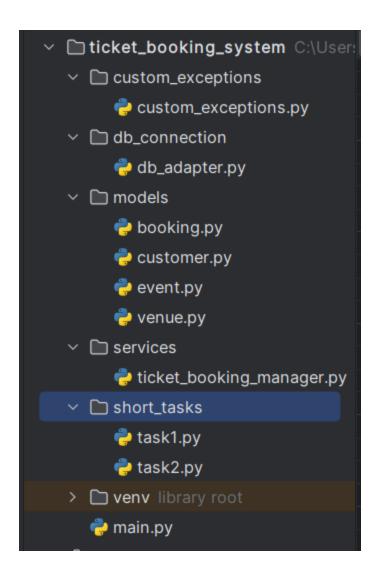
Ticket Booking System

Database Schema



File Structure



Custom_exceptions.py

```
class EventNotFoundException(Exception):
    def __init__(self, event_id):
        self.event_id = event_id
        self.message = f"Event with ID '{event_id}' not found in the menu."

class InvalidBookingIDException(Exception):
    def __init__(self, booking_id):
        self.booking_id = booking_id
        self.message = f"Invalid booking ID '{booking_id}'. Booking not found."
```

Db_adapter.py

```
import mysql.connector
```

```
def get db connection():
  except mysql.connector.Error as err:
def get ids(table name, id column name):
  mydb = get db connection()
  my cursor = mydb.cursor()
id column name + ' DESC LIMIT 1'
  my cursor.execute(sql)
def get cnts(table name, id column name, column id):
  mydb = get db connection()
  my cursor = mydb.cursor()
  sql = 'SELECT count(*) as count FROM ' + table name + ' WHERE ' +
id column name + '=' + column id
  my cursor.execute(sql)
  x = list(my cursor.fetchone())[0]
def get counts(table name, id column name1, id_column_name2, column_id1,
column id2):
  mydb = get db connection()
  my cursor = mydb.cursor()
id column name1 + '=' + column id1 + ' AND ' + id column name2 + '=' + '"' +
str(column id2) + '"'
  my cursor.execute(sql)
```

```
x = list(my_cursor.fetchone())[0]
# print(x)
return int(x)
```

Booking.py

```
from db connection.db adapter import *
from models.event import Event
class Booking:
total cost, booking date):
           para = (event id,)
           my cursor.execute(sql, para)
```

```
my cursor = self.connection.cursor()
          para = (event id,)
          my cursor.execute(sql, para)
          para = (event id,)
          my cursor.execute(sql, para)
          x = Event(*list(my cursor.fetchone()))
booking date=None):
      if num tickets:
           sql = 'UPDATE booking SET num tickets = %s WHERE booking id = %s'
          para = (num tickets, self.booking id)
          my cursor.execute(sql, para)
          sql = 'UPDATE booking SET total cost = %s WHERE booking id = %s'
          para = (total cost, self.booking id)
          my cursor.execute(sql, para)
```

```
sql = 'UPDATE booking SET booking_date = %s WHERE booking_id = %s'
para = (booking_date, self.booking_id)
my_cursor.execute(sql, para)
self.connection.commit()
print('Booking Date Updated successfully')
print('Booking details updated successfully')
```

Customer.py

```
from db connection.db adapter import *
class Customer:
booking id):
       return self.customer name
      return self.email
      print(f"Customer Name: {self.customer name}")
      print(f"Email: {self.email}")
  def update customer info(self, customer name=None, email=None,
phone number=None, booking id=None):
```

```
para = (customer name, self.customer id)
   my cursor.execute(sql, para)
    self.connection.commit()
if email:
   my cursor.execute(sql, para)
    sql = 'UPDATE customer SET Phone Number = %s WHERE customer id = %s'
   para = (phone number, self.customer id)
   my cursor.execute(sql, para)
    self.connection.commit()
   para = (booking id, self.customer id)
   my_cursor.execute(sql, para)
```

Event.py

```
from datetime import date

from db_connection.db_adapter import *

class Event:
    def __init__(self, event_id, event_name, event_date, event_time, venue_id,
    total_seats, available_seats, ticket_price, event_type, booking_id):
        self.connection = get_db_connection()
        self.event_id = event_id
        self.event_name = event_name
        self.event_date = event_date
        self.event_time = event_time
        self.venue_id = venue_id
        self.total seats = total seats
```

```
self.event type = event type
return self.event id
return self.event name
    sql1 = '''
```

```
paral = (get ids('booking', 'booking id'), customer id, event id,
num tickets, num tickets*ticket price, date.today())
          my cursor.execute(sql1, para1)
           sq12 = '''
          para2 = (num tickets, event id)
          my cursor.execute(sql2, para2)
self.update event info(available seats=self.available seats-num tickets)
          self.connection.commit()
          my cursor = self.connection.cursor()
          self.connection.commit()
      print(f"Event Name: {self.event name}")
      print(f"Event Time: {self.event time}")
      print(f"Venue ID: {self.venue id}")
      print(f"Total Seats: {self.total seats}")
      print(f"Ticket Price: {self.ticket price}")
      print(f"Event Type: {self.event type}")
  def update event info(self, event name=None, event date=None,
event time=None, venue id=None,
ticket price=None, event type=None):
      my cursor = self.connection.cursor()
          para = (event name, self.event id)
```

```
my cursor.execute(sql, para)
    self.connection.commit()
if event date:
   sql = 'UPDATE event SET Event Date = %s WHERE event id = %s'
   para = (event date, self.event id)
   my cursor.execute(sql, para)
   sql = 'UPDATE event SET Event Time = %s WHERE event id = %s'
   para = (event time, self.event id)
   my cursor.execute(sql, para)
   self.connection.commit()
   para = (venue id, self.event id)
   my cursor.execute(sql, para)
   sql = 'UPDATE event SET Total Seats = %s WHERE event id = %s'
   para = (total seats, self.event id)
   my cursor.execute(sql, para)
    sql = 'UPDATE event SET Available Seats = %s WHERE event id = %s'
   para = (available seats, self.event id)
   my cursor.execute(sql, para)
   self.connection.commit()
if ticket price:
   para = (ticket price, self.event id)
   my cursor.execute(sql, para)
if event type:
   sql = 'UPDATE event SET Event Type = %s WHERE event id = %s'
    para = (event type, self.event id)
```

```
my_cursor.execute(sql, para)
self.connection.commit()
print('Event Type Updated successfully')
print('Event details updated successfully')
```

Venue.py

```
from db connection.db adapter import *
class Venue:
  def get address(self):
      return self.address
   def display venue details(self):
      print(f"Venue Name: {self.venue name}")
      if venue name:
           sql = 'UPDATE venue SET Venue Name = %s WHERE venue id = %s'
          para = (venue name, self.venue id)
          my cursor.execute(sql, para)
       if address:
          para = (address, self.venue id)
          my cursor.execute(sql, para)
```

```
print('Venue details updated successfully')
```

Ticket_booking_manager.py

```
from db connection.db adapter import *
from models.event import Event
class BookingSystem:
  def book tickets(self):
      customer id = int(input('Enter the customer id: '))
      event id = input('Enter the event ID: ')
      temp event = self.get event by id(event id)
           temp event.book tickets(customer id, num tickets, event id,
temp event.get ticket price())
          print(f"Error: {err}")
          para = (event id,)
          my cursor.execute(sql, para)
      event id = input('Enter the event ID booking to cancel: ')
      temp_event = self.get_event by id(event id)
```

```
try:
    temp_event.cancel_booking(booking_id)
except mysql.connector.Error as err:
    print(f"Error: {err}")

def view_event_details(self):
    event_id = input("Enter the event ID to view details: ")

try:
    my_cursor = self.connection.cursor()
    sql = '''
    SELECT * from event where event_id = %s
    '''
    para = (event_id,)
    my_cursor.execute(sql, para)
    t = list(my_cursor.fetchone())
    x = Event(*t)
    x.display_event_details()
    except mysql.connector.Error as err:
    print(f"Error: {err}")
```

Main.py (entry point)

```
from services.ticket_booking_manager import *

if __name__ == "__main__":
    booking_system = BookingSystem()

while True:
    booking_system.display_menu()
    choice = input("Enter your choice (1-4): ")

if choice == "1":
    booking_system.book_tickets()

elif choice == "2":
    booking_system.cancel_booking()

elif choice == "3":
    booking_system.view_event_details()

elif choice == "4":
    print("Exiting the Booking System.")
    break

else:
    print("Invalid choice. Please enter a number between 1 and 4.")
```

Output

```
    Book Tickets
    Cancel Booking
    View Event Details
    Exit
    Enter your choice (1-4):
```

```
Enter your choice (1-4): 3
Enter the event ID to view details: 1
Event Name: Movie Night
Event Date: 2023-12-15
Event Time: 18:00:00
Venue ID: 4
Total Seats: 100
Available Seats: 90
Ticket Price: 10.00
Event Type: Movie
Booking ID: 1
```

```
Enter your choice (1-4): 1
Enter the number of tickets to book: 10
Enter the customer id: 1
Enter the event ID: 1
Available Seats Updated successfully
Event details updated successfully
Ticket Booked successfully
Ticket Booked Successfully
```

```
Enter your choice (1-4): 2
Enter the event ID booking to cancel: 1
Enter the booking ID to cancel: 11
Ticket Cancelled successfully
```

- 1. Book Tickets
- 2. Cancel Booking
- 3. View Event Details
- 4. Exit

Enter your choice (1-4): 4
Exiting the Booking System.