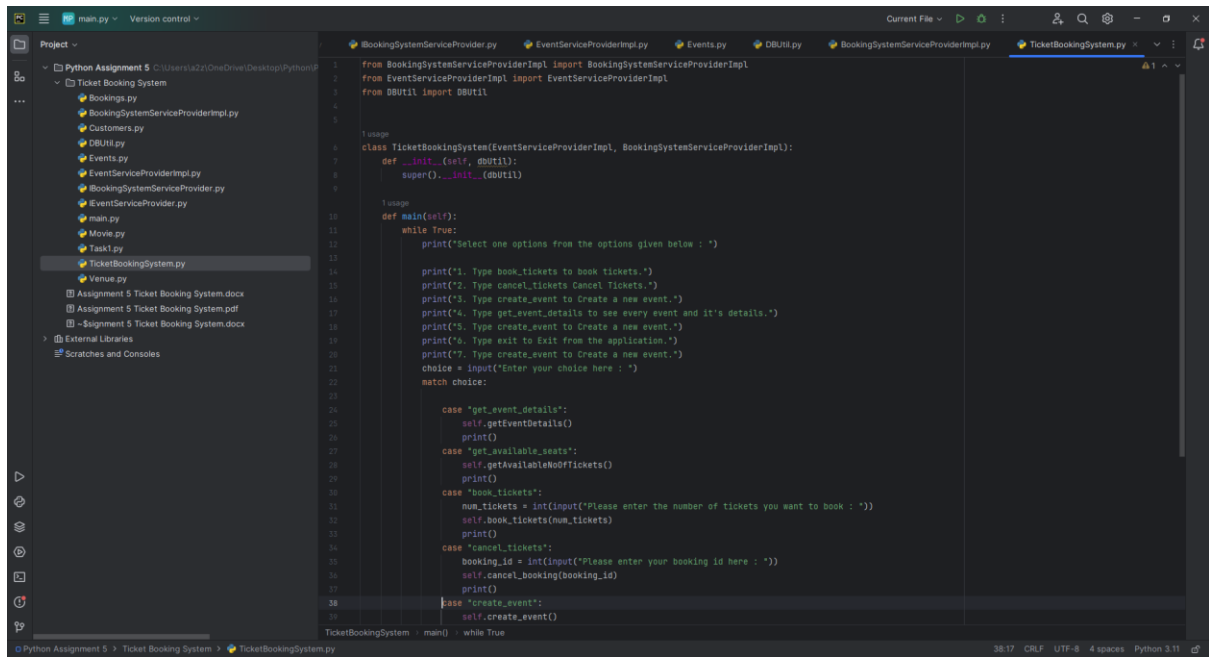


**Name: Manas Rustagi**

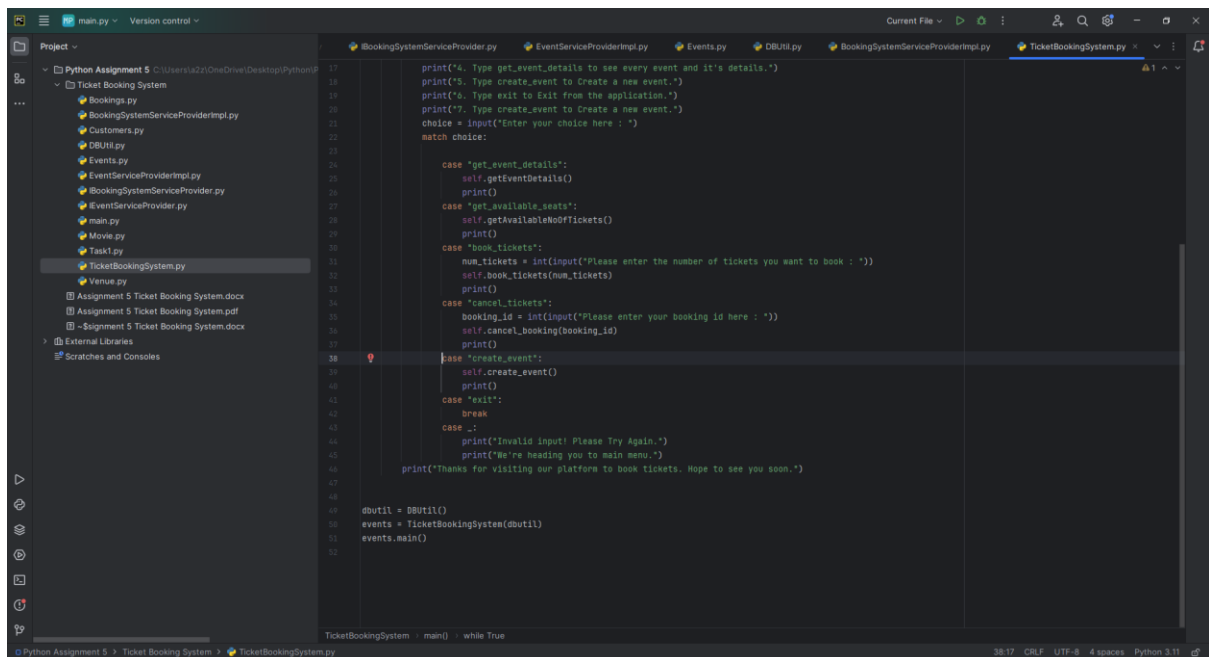
## Assignment 5 (Ticket Booking System)

### Ticket Booking System file in app package



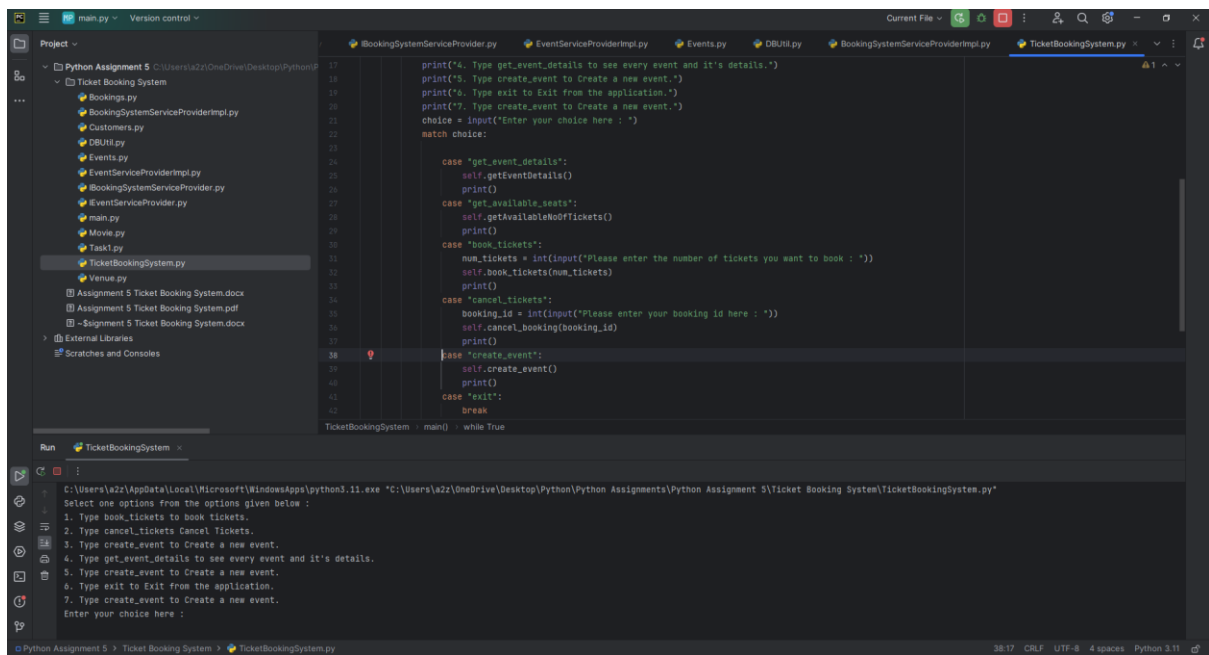
This screenshot shows the VS Code editor with the `TicketBookingSystem.py` file open. The file is part of the `Ticket Booking System` project, which is located in the `Python Assignment 5` folder. The project structure is visible in the left sidebar, showing files like `Bookings.py`, `BookingSystemServiceProviderImpl.py`, `Customers.py`, `DBUtil.py`, `Events.py`, `EventServiceProvidrImpl.py`, `BookingSystemServiceProvider.py`, `EventServiceProvidr.py`, `main.py`, `Movie.py`, `Task1.py`, `TicketBookingSystem.py`, and `Venue.py`. The `TicketBookingSystem.py` file is currently selected and its content is displayed in the editor. The code defines a `TicketBookingSystem` class that inherits from `EventServiceProvidrImpl` and `BookingSystemServiceProviderImpl`. It implements methods for getting event details, available seats, booking tickets, canceling tickets, and creating events. The `main` method is a loop that prompts the user to select an option from a menu.

```
1 from BookingSystemServiceProviderImpl import BookingSystemServiceProviderImpl
2 from EventServiceProvidrImpl import EventServiceProvidrImpl
3 from DBUtil import DBUtil
4
5
6 class TicketBookingSystem(EventServiceProvidrImpl, BookingSystemServiceProviderImpl):
7     def __init__(self, dbutil):
8         super().__init__(dbutil)
9
10
11     def main(self):
12         while True:
13             print("Select one options from the options given below : ")
14
15             print("1. Type book_tickets to book tickets.")
16             print("2. Type cancel_tickets Cancel Tickets.")
17             print("3. Type create_event to Create a new event.")
18             print("4. Type get_event_details to see every event and it's details.")
19             print("5. Type create_event to Create a new event.")
20             print("6. Type exit to Exit from the application.")
21             print("7. Type create_event to Create a new event.")
22             choice = input("Enter your choice here : ")
23             match choice:
24
25                 case "get_event_details":
26                     self.getEventDetails()
27                     print()
28                 case "get_available_seats":
29                     self.getAvailableNoOfTickets()
30                     print()
31                 case "book_tickets":
32                     num_tickets = int(input("Please enter the number of tickets you want to book : "))
33                     self.book_tickets(num_tickets)
34                     print()
35                 case "cancel_tickets":
36                     booking_id = int(input("Please enter your booking id here : "))
37                     self.cancel_booking(booking_id)
38                     print()
39                 case "create_event":
40                     self.create_event()
41
42             TicketBookingSystem : main() : while True
```



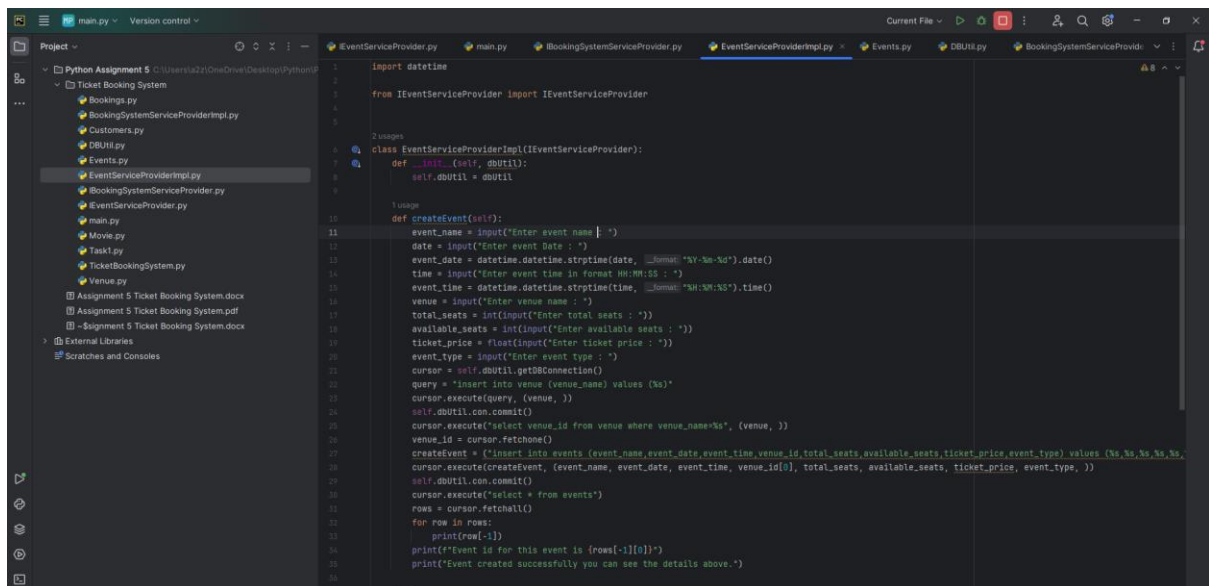
This screenshot shows the VS Code editor with the `TicketBookingSystem.py` file open. The file is part of the `Ticket Booking System` project, which is located in the `Python Assignment 5` folder. The project structure is visible in the left sidebar, showing files like `Bookings.py`, `BookingSystemServiceProviderImpl.py`, `Customers.py`, `DBUtil.py`, `Events.py`, `EventServiceProvidrImpl.py`, `BookingSystemServiceProvider.py`, `EventServiceProvidr.py`, `main.py`, `Movie.py`, `Task1.py`, `TicketBookingSystem.py`, and `Venue.py`. The `TicketBookingSystem.py` file is currently selected and its content is displayed in the editor. The code defines a `TicketBookingSystem` class that inherits from `EventServiceProvidrImpl` and `BookingSystemServiceProviderImpl`. It implements methods for getting event details, available seats, booking tickets, canceling tickets, and creating events. The `main` method is a loop that prompts the user to select an option from a menu.

```
17 print("4. Type get_event_details to see every event and it's details.")
18 print("5. Type create_event to Create a new event.")
19 print("6. Type exit to Exit from the application.")
20 print("7. Type create_event to Create a new event.")
21 choice = input("Enter your choice here : ")
22 match choice:
23
24     case "get_event_details":
25         self.getEventDetails()
26         print()
27     case "get_available_seats":
28         self.getAvailableNoOfTickets()
29         print()
30     case "book_tickets":
31         num_tickets = int(input("Please enter the number of tickets you want to book : "))
32         self.book_tickets(num_tickets)
33         print()
34     case "cancel_tickets":
35         booking_id = int(input("Please enter your booking id here : "))
36         self.cancel_booking(booking_id)
37         print()
38     case "create_event":
39         self.create_event()
40         print()
41     case "exit":
42         break
43     case _:
44         print("Invalid input! Please try Again.")
45         print("We're heading you to main menu.")
46
47 print("Thanks for visiting our platform to book tickets. Hope to see you soon.")
48
49
50 dbutil = DBUtil()
51 events = TicketBookingSystem(dbutil)
52 events.main()
53
54 TicketBookingSystem : main() : while True
```



# 1. Create\_event

## Code:



```
1 import datetime
2
3 from IEventServiceProvider import IEventServiceProvider
4
5
6 2 usages
7
8 class EventServiceProviderImpl(IEventServiceProvider):
9     def __init__(self, dbUtil):
10         self.dbUtil = dbUtil
11
12 1 usage
13
14 def createEvent(self):
15     event_name = input("Enter event name : ")
16     date = input("Enter event Date : ")
17     event_date = datetime.datetime.strptime(date, "%Y-%m-%d").date()
18     time = input("Enter event time in format HH:MM:SS : ")
19     event_time = datetime.datetime.strptime(time, "%H:%M:%S").time()
20     venue = input("Enter venue name : ")
21     total_seats = int(input("Enter total seats : "))
22     available_seats = int(input("Enter available seats : "))
23     ticket_price = float(input("Enter ticket price : "))
24     event_type = input("Enter event type : ")
25     cursor = self.dbUtil.getConnection()
26     query = "insert into venue (venue_name) values (%s)"
27     cursor.execute(query, (venue,))
28     self.dbUtil.con.commit()
29     cursor.execute("select venue_id from venue where venue_name=%s", (venue,))
30     venue_id = cursor.fetchone()
31     createEvent = ("insert into events (event_name,event_date,event_time,venue_id,total_seats,available_seats,ticket_price,event_type) values (%s,%s,%s,%s,%s,%s,%s,%s,%s)"
32     cursor.execute(createEvent, (event_name, event_date, event_time, venue_id[0], total_seats, available_seats, ticket_price, event_type,))
33     self.dbUtil.con.commit()
34     cursor.execute("select * from events")
35     rows = cursor.fetchall()
36     for row in rows:
37         print(row)
38     print("Event id for this event is %s" % (rows[-1][0]))
39     print("Event created successfully you can see the details above.")
```

C:\Users\hp\AppData\Local\Programs\Python\Python311\python.exe "E:\HexawareAssignments\Python\Ticket Booking System\app\TicketBookingSystem.py"

Select one options from the options given below :

1. Type create\_event to Create a new event.
2. Type book\_tickets to book tickets.
3. Type cancel\_tickets Cancel Tickets.
4. Type get\_available\_seats to Know how many seats are Available.
5. Type get\_event\_details to see every event and it's details.
6. Type exit to Exit from the application.

Enter your choice here : create\_event

Enter event name : IPL semi

Enter event Date : 2024-05-23

Enter event time in format HH:MM:SS : 07:30:00

Enter venue name : Eden Gardens

Enter total seats : 1000

Enter available seats : 900

Enter ticket price : 2000.5

Enter event type : Sports

```
(101, 'Bollywood Night', datetime.date(2024, 2, 15), datetime.timedelta(seconds=68400), 1, 300, 250, Decimal('1300'), 'Concert')
(102, 'Cricket Championship', datetime.date(2024, 3, 20), datetime.timedelta(seconds=59400), 2, 1000, 800, Decimal('2500'), 'Sports')
(103, 'Tech Summit', datetime.date(2024, 4, 25), datetime.timedelta(seconds=36000), 3, 500, 400, Decimal('2000'), 'Conference')
(104, 'Comedy Show', datetime.date(2024, 5, 10), datetime.timedelta(seconds=73800), 4, 200, 180, Decimal('1500'), 'Comedy')
(105, 'Classical Music Gala', datetime.date(2024, 6, 5), datetime.timedelta(seconds=64800), 5, 400, 350, Decimal('1800'), 'Concert')
(106, 'IPL Final', datetime.date(2024, 6, 15), datetime.timedelta(seconds=70200), 2, 800, 700, Decimal('3000'), 'Sports')
(107, 'IT Conference', datetime.date(2024, 7, 12), datetime.timedelta(seconds=32400), 3, 600, 550, Decimal('2500'), 'Conference')
(108, 'Stand-up Comedy Night', datetime.date(2024, 8, 20), datetime.timedelta(seconds=75600), 4, 250, 230, Decimal('1200'), 'Comedy')
(109, 'Sufi Music Festival', datetime.date(2024, 9, 10), datetime.timedelta(seconds=63000), 5, 350, 300, Decimal('1500'), 'Concert')
(110, 'Football League', datetime.date(2024, 9, 25), datetime.timedelta(seconds=54000), 6, 700, 650, Decimal('2000'), 'Sports')
(111, 'Movie Premiere', datetime.date(2024, 10, 5), datetime.timedelta(seconds=72000), 7, 150, 120, Decimal('1000'), 'Movie')
(112, 'Action Blockbuster', datetime.date(2024, 10, 15), datetime.timedelta(seconds=66600), 8, 180, 150, Decimal('1100'), 'Movie')
```

```
(107, 'IT Conference', datetime.date(2024, 7, 12), datetime.timedelta(seconds=32400), 3, 600, 550, Decimal('2500'), 'Conference')
(108, 'Stand-up Comedy Night', datetime.date(2024, 8, 20), datetime.timedelta(seconds=75600), 4, 250, 230, Decimal('1200'), 'Comedy')
(109, 'Sufi Music Festival', datetime.date(2024, 9, 10), datetime.timedelta(seconds=63000), 5, 350, 300, Decimal('1500'), 'Concert')
(110, 'Football League', datetime.date(2024, 9, 25), datetime.timedelta(seconds=54000), 6, 700, 650, Decimal('2000'), 'Sports')
(111, 'Movie Premiere', datetime.date(2024, 10, 5), datetime.timedelta(seconds=72000), 7, 150, 120, Decimal('1000'), 'Movie')
(112, 'Action Blockbuster', datetime.date(2024, 10, 15), datetime.timedelta(seconds=66600), 8, 180, 150, Decimal('1100'), 'Movie')
(113, 'Romantic Movie Night', datetime.date(2024, 11, 1), datetime.timedelta(seconds=70200), 9, 200, 180, Decimal('1200'), 'Movie')
(114, 'FIFA CUP', datetime.date(2024, 5, 12), datetime.timedelta(seconds=75600), 6, 400, 120, Decimal('15000'), 'Sports')
(119, 'Wedding', datetime.date(2017, 12, 11), datetime.timedelta(seconds=21790), 17, 1000, 1, Decimal('1500'), 'Marriage')
(122, 'IPL semi', datetime.date(2024, 5, 23), datetime.timedelta(seconds=27000), 22, 1000, 900, Decimal('2001'), 'Sports')
Event id for this event is 122
Event created successfully you can see the details above.
```

## Updates in database:

```
mysql> select * from events;
```

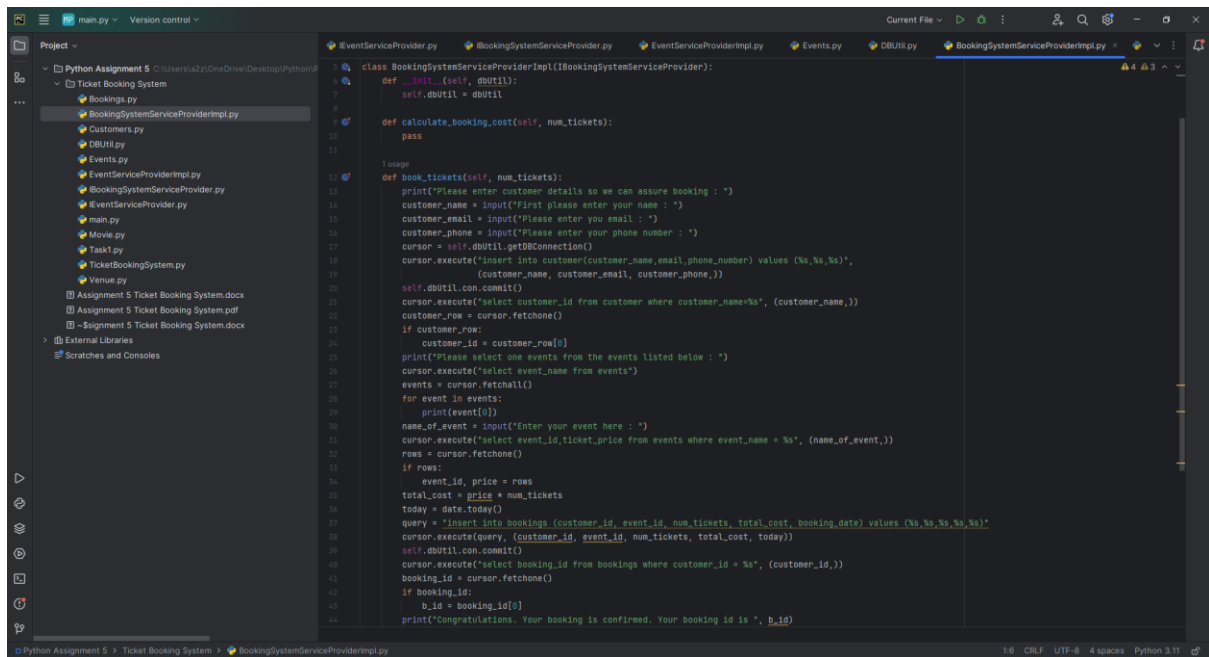
| event_id | event_name            | event_date | event_time | venue_id | total_seats | available_seats | ticket_price | event_type |
|----------|-----------------------|------------|------------|----------|-------------|-----------------|--------------|------------|
| 101      | Bollywood Night       | 2024-02-15 | 19:00:00   | 1        | 300         | 250             | 1300         | Concert    |
| 102      | Cricket Championship  | 2024-03-20 | 16:30:00   | 2        | 1000        | 800             | 2500         | Sports     |
| 103      | Tech Summit           | 2024-04-25 | 10:00:00   | 3        | 500         | 400             | 2000         | Conference |
| 104      | Comedy Show           | 2024-05-10 | 20:30:00   | 4        | 200         | 180             | 1500         | Comedy     |
| 105      | Classical Music Gala  | 2024-06-05 | 18:00:00   | 5        | 400         | 350             | 1800         | Concert    |
| 106      | IPL Final             | 2024-06-15 | 19:30:00   | 2        | 800         | 700             | 3000         | Sports     |
| 107      | IT Conference         | 2024-07-12 | 09:00:00   | 3        | 600         | 550             | 2500         | Conference |
| 108      | Stand-up Comedy Night | 2024-08-20 | 21:00:00   | 4        | 250         | 230             | 1200         | Comedy     |
| 109      | Sufi Music Festival   | 2024-09-10 | 17:30:00   | 5        | 350         | 300             | 1500         | Concert    |
| 110      | Football League       | 2024-09-25 | 15:00:00   | 6        | 700         | 650             | 2000         | Sports     |
| 111      | Movie Premiere        | 2024-10-05 | 20:00:00   | 7        | 150         | 120             | 1000         | Movie      |
| 112      | Action Blockbuster    | 2024-10-15 | 18:30:00   | 8        | 180         | 150             | 1100         | Movie      |
| 113      | Romantic Movie Night  | 2024-11-01 | 19:30:00   | 9        | 200         | 180             | 1200         | Movie      |
| 114      | FIFA CUP              | 2024-05-12 | 21:00:00   | 6        | 400         | 120             | 15000        | Sports     |
| 119      | Wedding               | 2017-12-11 | 06:03:10   | 17       | 1000        | 1               | 1500         | Marraige   |
| 122      | IPL semi              | 2024-05-23 | 07:30:00   | 22       | 1000        | 900             | 2001         | Sports     |

```
16 rows in set (0.00 sec)
```

```
mysql>
```

## Book\_tickets

## Code:



```
class BookingSystemServiceProviderImpl(BookingSystemServiceProvider):
    def __init__(self, dbutil):
        self.dbutil = dbutil

    def calculate_booking_cost(self, num_tickets):
        pass

    def book_tickets(self, num_tickets):
        print("Please enter customer details so we can assure booking : ")
        customer_name = input("First please enter your name : ")
        customer_email = input("Please enter you email : ")
        customer_phone = input("Please enter your phone number : ")
        cursor = self.dbutil.getDBConnection()
        cursor.execute("insert into customer(customer_name,email,phone_number) values (%s,%s,%s)",
                        (customer_name, customer_email, customer_phone))
        self.dbutil.conn.commit()
        cursor.execute("select customer_id from customer where customer_name=%s", (customer_name,))
        customer_row = cursor.fetchone()
        if customer_row:
            customer_id = customer_row[0]
            print("Please select one events from the events listed below : ")
            cursor.execute("select event_name from events")
            events = cursor.fetchall()
            for event in events:
                print(event[0])
            name_of_event = input("Enter your event here : ")
            cursor.execute("select event_id,ticket_price from events where event_name = %s", (name_of_event,))
            rows = cursor.fetchall()
            if rows:
                event_id, price = rows
                total_cost = price * num_tickets
                today = date.today()
                query = "insert into bookings (customer_id, event_id, num_tickets, total_cost, booking_date) values (%s,%s,%s,%s,%s)"
                cursor.execute(query, (customer_id, event_id, num_tickets, total_cost, today))
                self.dbutil.conn.commit()
                cursor.execute("select booking_id from bookings where customer_id = %s", (customer_id,))
                booking_id = cursor.fetchone()
                if booking_id:
                    b_id = booking_id[0]
                    print("Congratulations. Your booking is confirmed. Your booking id is ", b_id)
```

## Output:

```
Enter your choice here : book_tickets
Please enter the number of tickets you want to book : 4
Please enter customer details so we can assure booking :
First please enter your name : Sudhanshu
Please enter you email : sudhanshu@yaaho.com
Please enter your phone number : 1346791346
Please select one events from the events listed below :
Bollywood Night
Cricket Championship
Tech Summit
Comedy Show
Classical Music Gala
IPL Final
IT Conference
Stand-up Comedy Night
Sufi Music Festival
Football League
Movie Premiere
Action Blockbuster
Romantic Movie Night
FIFA CUP
Wedding
IPL semi
Enter your event here : Bollywood Night
Congratulations. Your booking is confirmed. Your booking id is 5018
Select one options from the options given below :
```

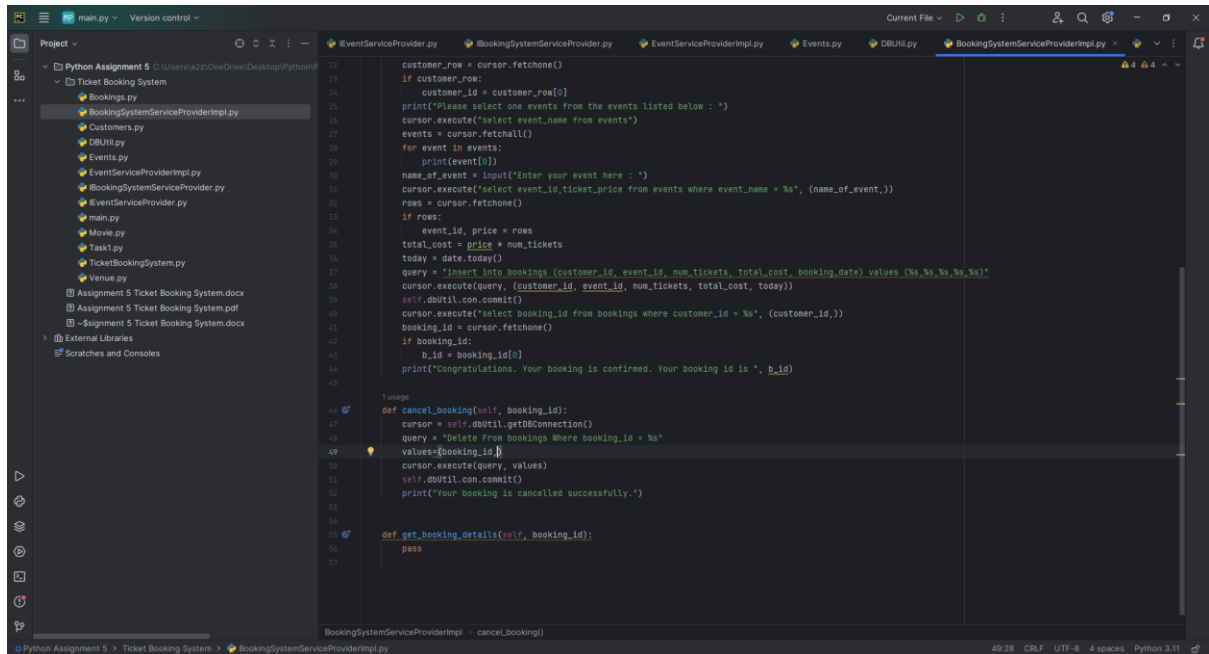
## Updates in database:

```
mysql> select * from bookings;
+-----+-----+-----+-----+-----+-----+
| booking_id | customer_id | event_id | num_tickets | total_cost | booking_date |
+-----+-----+-----+-----+-----+-----+
| 5001 | 1001 | 101 | 2 | 2500 | 2024-01-20 |
| 5002 | 1002 | 102 | 5 | 12500 | 2024-01-21 |
| 5003 | 1003 | 103 | 3 | 6000 | 2024-01-22 |
| 5004 | 1004 | 104 | 4 | 6000 | 2024-01-23 |
| 5005 | 1005 | 105 | 2 | 3600 | 2024-01-24 |
| 5006 | 1006 | 106 | 3 | 9000 | 2024-01-25 |
| 5007 | 1007 | 107 | 2 | 5000 | 2024-01-26 |
| 5008 | 1008 | 108 | 2 | 2400 | 2024-01-27 |
| 5009 | 1009 | 109 | 4 | 6000 | 2024-01-28 |
| 5011 | 1001 | 111 | 3 | 3000 | 2024-02-01 |
| 5014 | 1004 | 106 | 4 | 5200 | 2024-06-15 |
| 5015 | 1005 | 106 | 2 | 2500 | 2024-06-15 |
| 5016 | 1015 | 114 | 10 | 150000 | 2024-02-02 |
| 5018 | 1017 | 101 | 4 | 5200 | 2024-02-04 |
+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)
```

```
mysql> select * from customer;
+-----+-----+-----+-----+
| customer_id | customer_name | email | phone_number |
+-----+-----+-----+-----+
| 1001 | Priya Sharma | priya.sharma@email.com | 9876543210 |
| 1002 | Rahul Verma | rahul.verma@email.com | 87654321091 |
| 1003 | Pooja Singh | pooja.singh@email.com | 7654321098 |
| 1004 | Aman Gupta | aman.gupta@email.com | 65432109879 |
| 1005 | Nisha Patel | nisha.patel@email.com | 5432109876 |
| 1006 | Sameer Shah | sameer.shah@email.com | 4321098765 |
| 1007 | Anjali Desai | anjali.desai@email.com | 3210987654 |
| 1008 | Rohan Malhotra | rohan.malhotra@email.com | 2109876543 |
| 1009 | Shreya Kapoor | shreya.kapoor@email.com | 1098765432 |
| 1010 | Kartik Joshi | kartik.joshi@email.com | 9876543211 |
| 1012 | Aayushi Singh | saayushi@outlook.com | 1234567891 |
| 1013 | Aayushi Singh | saayushi@outlook.com | 1234554321 |
| 1014 | Aayushi Singh | saayushi@yahoo.com | 1298347650 |
| 1015 | Mayank Kumar | mayank@yahoo.com | 1234512345 |
| 1016 | Sarthak | sarthak@gmail.com | 1234545321 |
| 1017 | Sudhanshu | sudhanshu@yaaho.com | 1346791346 |
+-----+-----+-----+-----+
16 rows in set (0.00 sec)
```

## Cancel\_bookings

### Code:



```
22 customer_row = cursor.fetchone()
23 if customer_row:
24     customer_id = customer_row[0]
25     print("Please select one events from the events listed below : ")
26     cursor.execute("select event_name from events")
27     events = cursor.fetchall()
28     for event in events:
29         print(event[0])
30     name_of_event = input("Enter your event here : ")
31     cursor.execute("select event_id,ticket_price from events where event_name = %s", (name_of_event,))
32     rows = cursor.fetchall()
33     if rows:
34         event_id, price = rows
35         total_cost = price * num_tickets
36         today = date.today()
37         query = 'insert into bookings (customer_id, event_id, num_tickets, total_cost, booking_date) values (%s,%s,%s,%s,%s)'
38         cursor.execute(query, (customer_id, event_id, num_tickets, total_cost, today))
39         self.dbutil.con.commit()
40         cursor.execute("select booking_id from bookings where customer_id = %s", (customer_id,))
41         booking_id = cursor.fetchone()
42         if booking_id:
43             b_id = booking_id[0]
44             print("Congratulations. Your booking is confirmed. Your booking id is ", b_id)
45
46 1 usage
47 def cancel_booking(self, booking_id):
48     cursor = self.dbutil.getDBConnection()
49     query = "delete from bookings where booking_id = %s"
50     values=(booking_id,)
51     cursor.execute(query, values)
52     self.dbutil.con.commit()
53     print("Your booking is cancelled successfully.")
54
55 def get_booking_details(self, booking_id):
56     pass
57
```

```
Select one options from the options given below :
1. Type create_event to Create a new event.
2. Type book_tickets to book tickets.
3. Type cancel_tickets Cancel Tickets.
4. Type get_available_seats to Know how many seats are Available.
5. Type get_event_details to see every event and it's details.
6. Type exit to Exit from the application.
Enter your choice here : cancel_tickets
Please enter your booking id here : 5018
Your booking is cancelled successfully.
```

### Updates in database:

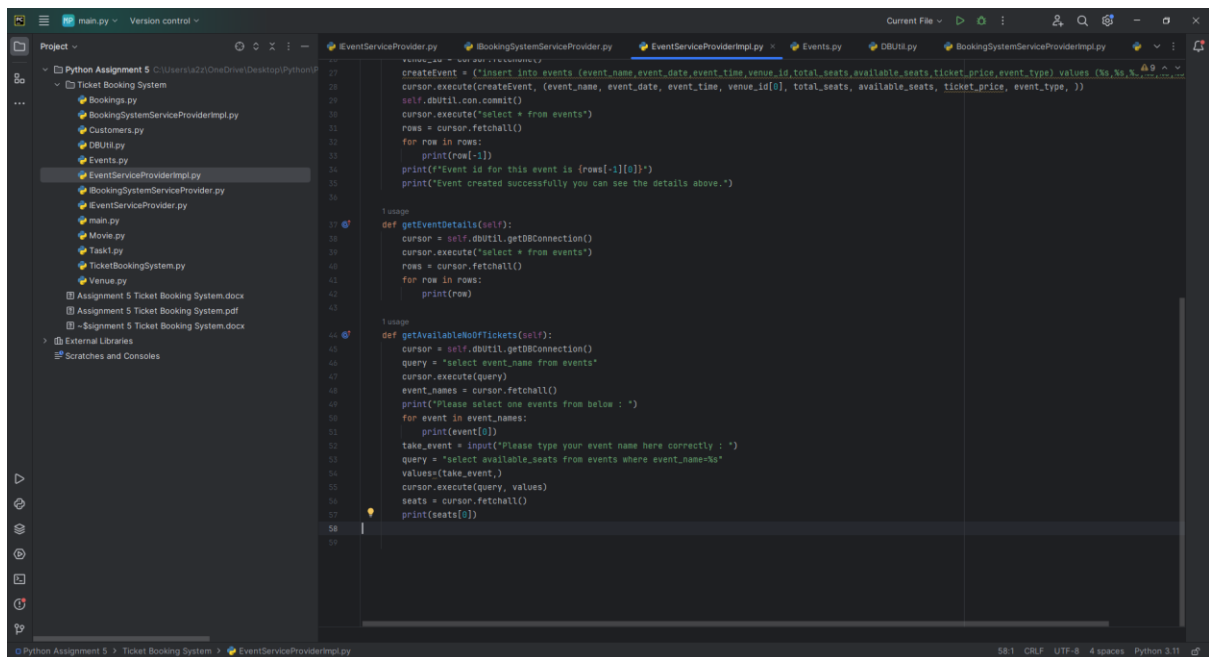
```
mysql> select * from bookings;
```

| booking_id | customer_id | event_id | num_tickets | total_cost | booking_date |
|------------|-------------|----------|-------------|------------|--------------|
| 5001       | 1001        | 101      | 2           | 2500       | 2024-01-20   |
| 5002       | 1002        | 102      | 5           | 12500      | 2024-01-21   |
| 5003       | 1003        | 103      | 3           | 6000       | 2024-01-22   |
| 5004       | 1004        | 104      | 4           | 6000       | 2024-01-23   |
| 5005       | 1005        | 105      | 2           | 3600       | 2024-01-24   |
| 5006       | 1006        | 106      | 3           | 9000       | 2024-01-25   |
| 5007       | 1007        | 107      | 2           | 5000       | 2024-01-26   |
| 5008       | 1008        | 108      | 2           | 2400       | 2024-01-27   |
| 5009       | 1009        | 109      | 4           | 6000       | 2024-01-28   |
| 5011       | 1001        | 111      | 3           | 3000       | 2024-02-01   |
| 5014       | 1004        | 106      | 4           | 5200       | 2024-06-15   |
| 5015       | 1005        | 106      | 2           | 2500       | 2024-06-15   |
| 5016       | 1015        | 114      | 10          | 150000     | 2024-02-02   |

```
13 rows in set (0.00 sec)
```

# Get\_available\_seats

## Code:

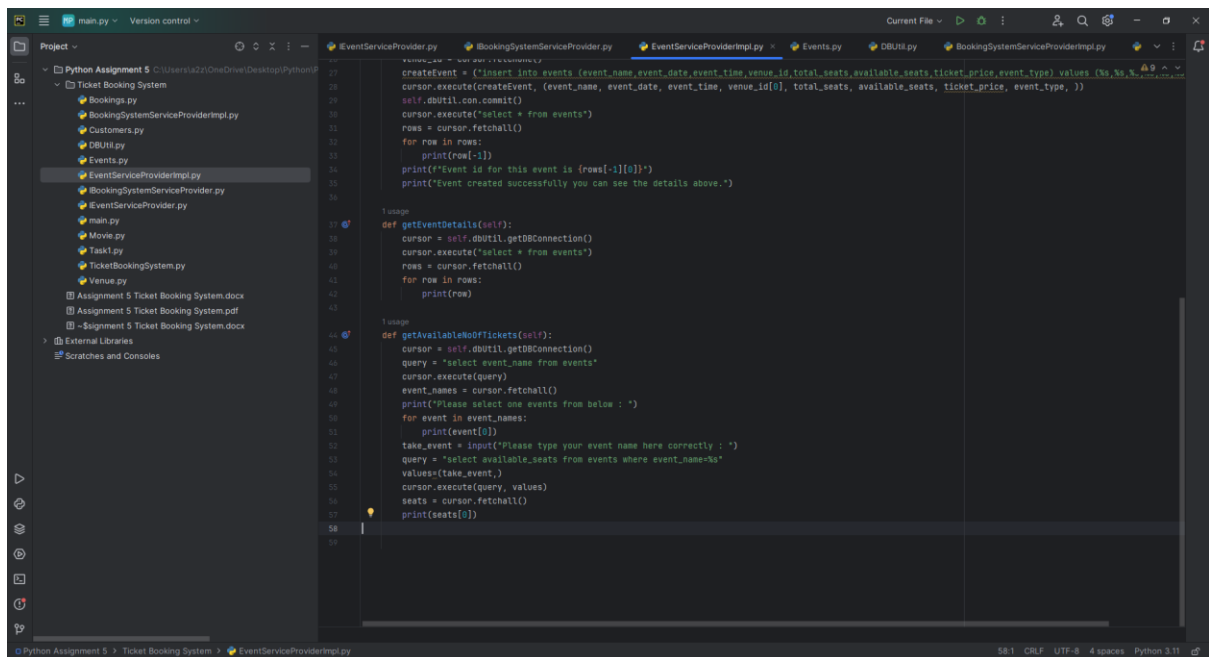


```
27 createEvent = ('insert into events (event_name,event_date,event_time,venue_id,total_seats,available_seats,ticket_price,event_type) values (%s,%s,%s,%s,%s,%s,%s,%s)' % (event_name, event_date, event_time, venue_id[0], total_seats, available_seats, ticket_price, event_type,))
28 cursor.execute(createEvent, (event_name, event_date, event_time, venue_id[0], total_seats, available_seats, ticket_price, event_type,))
29 self.dbutil.con.commit()
30 cursor.execute("select * from events")
31 rows = cursor.fetchall()
32 for row in rows:
33     print(row[-1])
34 print("Event id for this event is {rows[-1][0]}")
35 print("Event created successfully you can see the details above.")
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Enter your choice here : get_available_seats
Please select one events from below :
('Bollywood Night',)
('Cricket Championship',)
('Tech Summit',)
('Comedy Show',)
('Classical Music Gala',)
('IPL Final',)
('IT Conference',)
('Stand-up Comedy Night',)
('Sufi Music Festival',)
('Football League',)
('Movie Premiere',)
('Action Blockbuster',)
('Romantic Movie Night',)
('FIFA CUP',)
('Wedding',)
('IPL semi',)
Please type your event name here correctly : IPL semi
[(900,)]
```

## Get\_event\_details

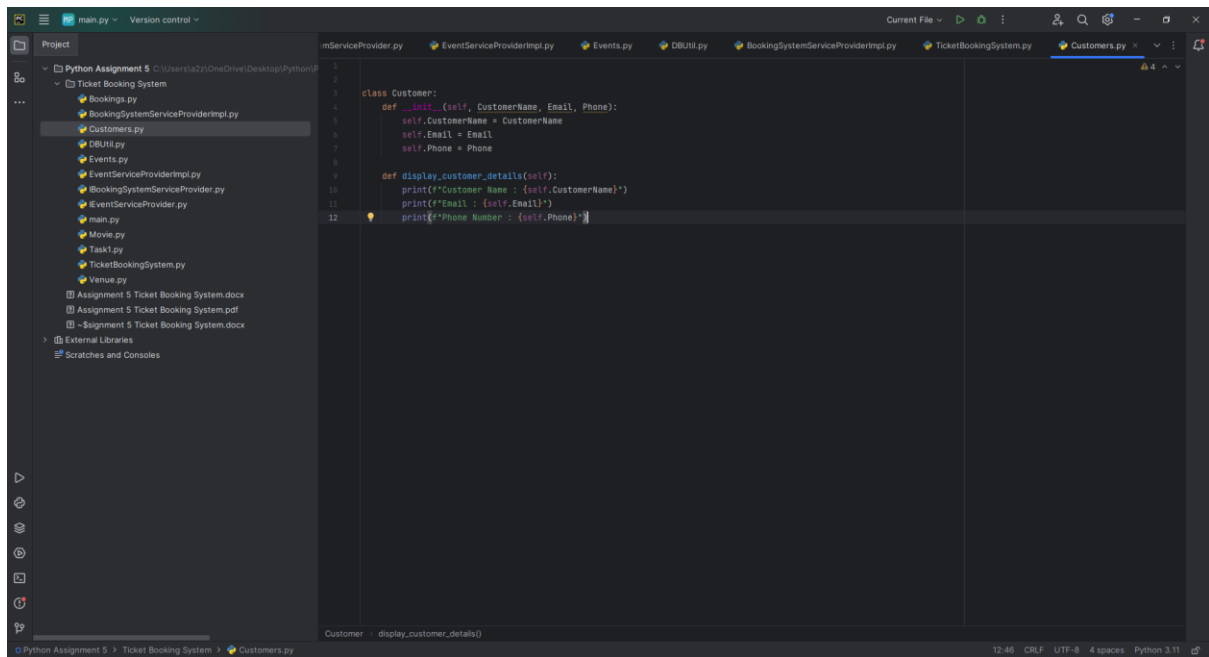
### Code:



```
27 createEvent = ('insert into events (event_name,event_date,event_time,venue_id,total_seats,available_seats,ticket_price,event_type) values (%s,%s,%s,%s,%s,%s,%s,%s)')
28 cursor.execute(createEvent, (event_name, event_date, event_time, venue_id[0], total_seats, available_seats, ticket_price, event_type,))
29 self.dbutil.con.commit()
30 cursor.execute('select * from events')
31 rows = cursor.fetchall()
32 for row in rows:
33     print(row[-1])
34 print(f'Event id for this event is {rows[-1][0]}')
35 print(f'Event created successfully you can see the details above.')
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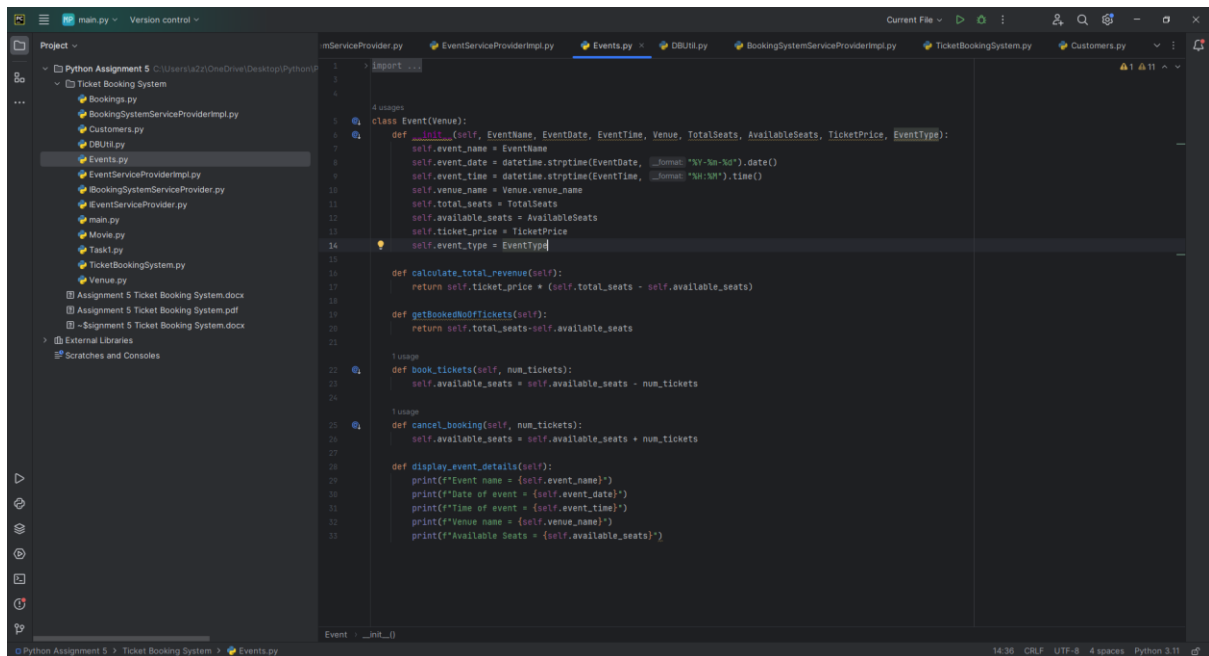
## Customers class:



The screenshot shows a code editor with the `Customers.py` file open. The class `Customer` is defined with an `__init__` method that takes `CustomerName`, `Email`, and `Phone` as arguments. It also has a `display_customer_details` method that prints the customer's name, email, and phone number. The project explorer on the left shows the file structure of the 'Ticket Booking System' project.

```
1 class Customer:
2
3     def __init__(self, CustomerName, Email, Phone):
4         self.CustomerName = CustomerName
5         self.Email = Email
6         self.Phone = Phone
7
8     def display_customer_details(self):
9         print(f"Customer Name : {self.CustomerName}")
10        print(f"Email : {self.Email}")
11        print(f"Phone Number : {self.Phone}")
```

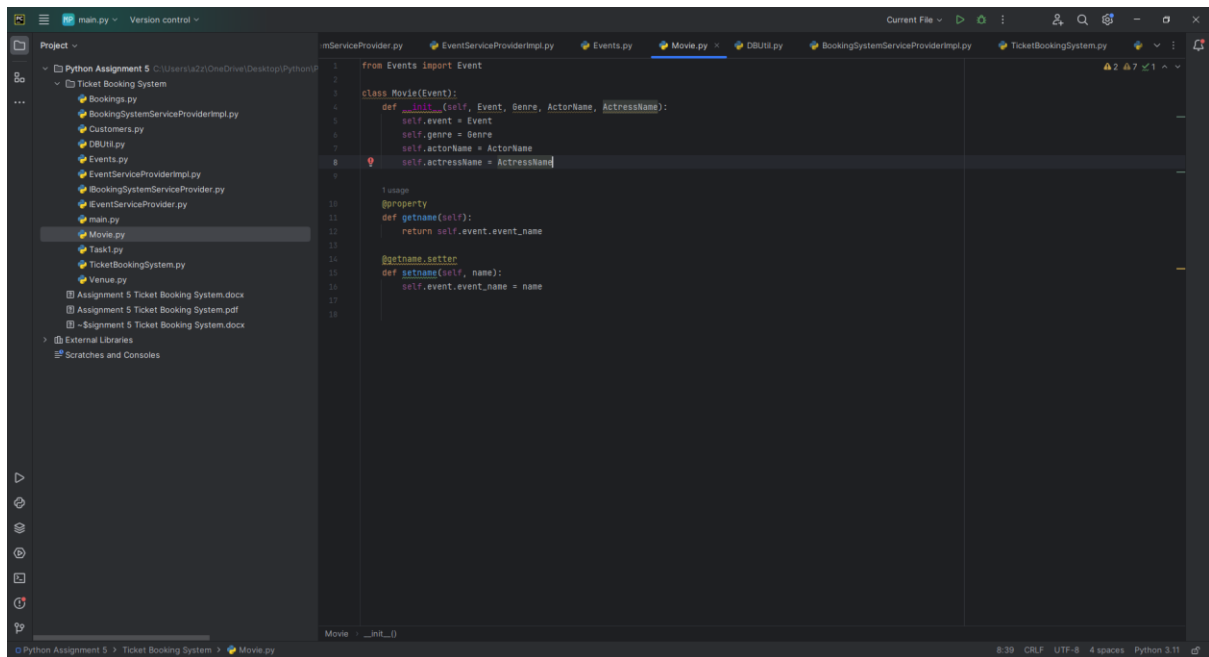
## Events class:



The screenshot shows a code editor with the `Events.py` file open. The class `Event` is defined with an `__init__` method that takes `EventName`, `EventDate`, `EventTime`, `Venue`, `TotalSeats`, `AvailableSeats`, `TicketPrice`, and `EventType` as arguments. It also has methods for `calculate_total_revenue`, `getBookedNumberOfTickets`, `cancel_booking`, and `display_event_details`. The project explorer on the left shows the file structure of the 'Ticket Booking System' project.

```
1 import sys
2
3 class Event(Venue):
4     def __init__(self, EventName, EventDate, EventTime, Venue, TotalSeats, AvailableSeats, TicketPrice, EventType):
5         self.event_name = EventName
6         self.event_date = datetime.strptime(EventDate, "%Y-%m-%d").date()
7         self.event_time = datetime.strptime(EventTime, "%H:%M").time()
8         self.venue_name = Venue.venue_name
9         self.total_seats = TotalSeats
10        self.available_seats = AvailableSeats
11        self.ticket_price = TicketPrice
12        self.event_type = EventType
13
14    def calculate_total_revenue(self):
15        return self.ticket_price * (self.total_seats - self.available_seats)
16
17    def getBookedNumberOfTickets(self):
18        return self.total_seats - self.available_seats
19
20    def book_tickets(self, num_tickets):
21        self.available_seats = self.available_seats - num_tickets
22
23    def cancel_booking(self, num_tickets):
24        self.available_seats = self.available_seats + num_tickets
25
26    def display_event_details(self):
27        print(f"Event name = {self.event_name}")
28        print(f"Date of event = {self.event_date}")
29        print(f"Time of event = {self.event_time}")
30        print(f"Venue name = {self.venue_name}")
31        print(f"Available Seats = {self.available_seats}")
```

## Movie class:

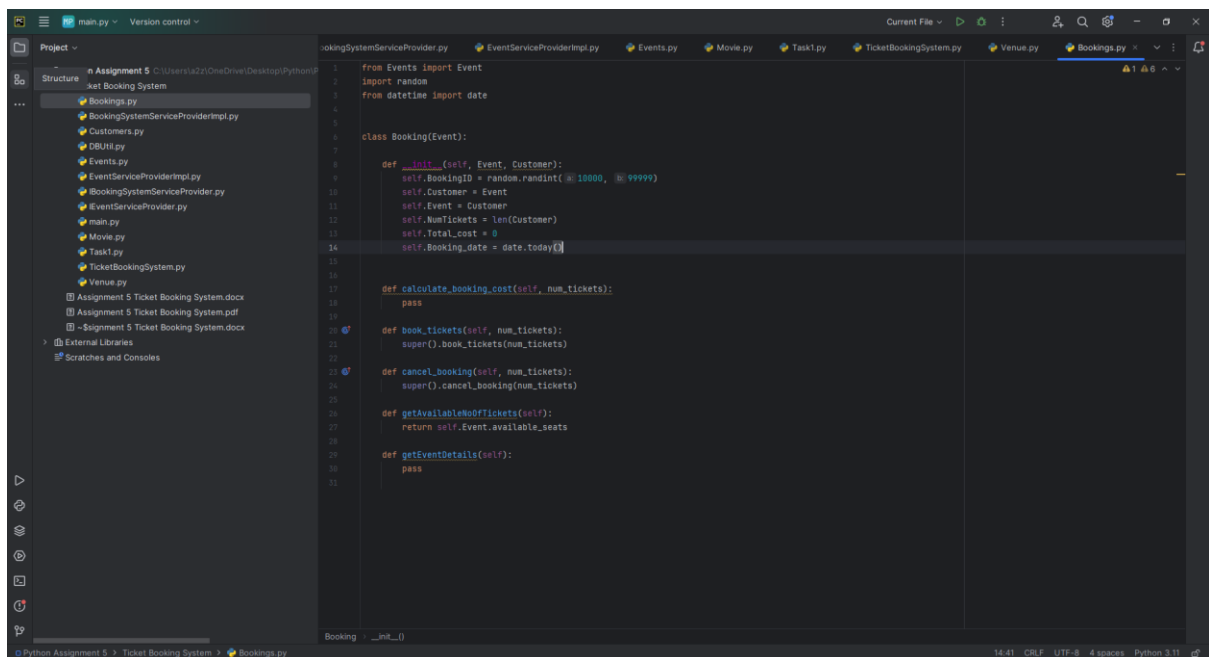


The screenshot shows a code editor with the following Python code in `Movie.py`:

```
1 from Events import Event
2
3 class Movie(Event):
4     def __init__(self, Event, Genre, ActorName, ActressName):
5         self.event = Event
6         self.genre = Genre
7         self.actorName = ActorName
8         self.actressName = ActressName
9
10     @property
11     def getname(self):
12         return self.event.event_name
13
14     @getname.setter
15     def setname(self, name):
16         self.event.event_name = name
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The status bar at the bottom indicates: Python Assignment 5 > Ticket Booking System > Movie.py, 6:39, CRLF, UTF-8, 4 spaces, Python 3.11.

## Booking class:

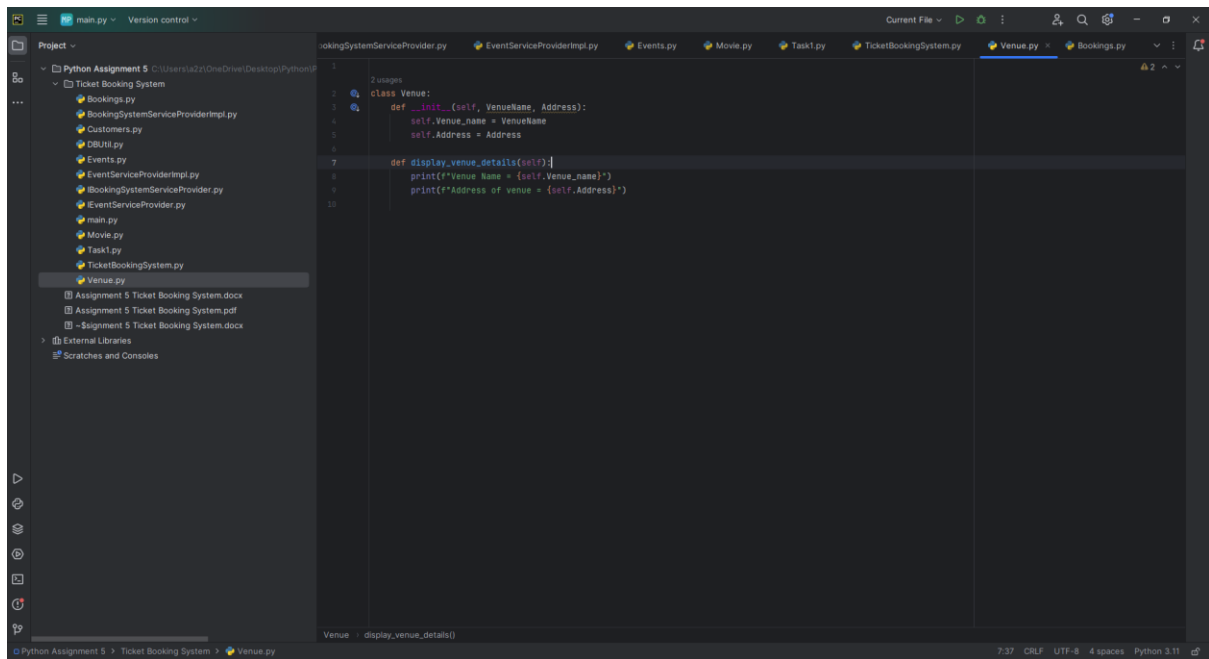


The screenshot shows a code editor with the following Python code in `Bookings.py`:

```
1 from Events import Event
2 import random
3 from datetime import date
4
5 class Booking(Event):
6     def __init__(self, Event, Customer):
7         self.BookingID = random.randint(10000, 99999)
8         self.Customer = Customer
9         self.Event = Customer
10         self.NumTickets = len(Customer)
11         self.TotalCost = 0
12         self.BookingDate = date.today()
13
14     def calculate_booking_cost(self, num_tickets):
15         pass
16
17     def book_tickets(self, num_tickets):
18         super().book_tickets(num_tickets)
19
20     def cancel_booking(self, num_tickets):
21         super().cancel_booking(num_tickets)
22
23     def getAvailableNoOfTickets(self):
24         return self.Event.available_seats
25
26     def getEventDetails(self):
27         pass
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The status bar at the bottom indicates: Python Assignment 5 > Ticket Booking System > Bookings.py, 14:41, CRLF, UTF-8, 4 spaces, Python 3.11.

## Venue class:



The screenshot shows a Python IDE with a project named 'Python Assignment 5'. The file explorer on the left lists various files, including 'Venue.py'. The main editor window displays the code for the 'Venue' class in 'Venue.py'.

```
1 2 pages
2
3 class Venue:
4     def __init__(self, VenueName, Address):
5         self.Venue_name = VenueName
6         self.Address = Address
7
8     def display_venue_details(self):
9         print(f"Venue Name = {self.Venue_name}")
10        print(f"Address of venue = {self.Address}")
```

The status bar at the bottom indicates the file is 'Venue.py', the method is 'display\_venue\_details()', and the encoding is 'UTF-8'.