

stock_Trading_platfrom.java

HotelReservationSystem.java

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```
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Scanner;
import java.time.LocalDate;
import java.time.temporal.ChronoUnit;

class Room {
    private int roomNumber;
    private String category;
    private double price;
    private boolean isAvailable;

    public Room(int roomNumber, String category, double price) {
        this.roomNumber = roomNumber;
        this.category = category;
        this.price = price;
        this.isAvailable = true;
    }

    public int getRoomNumber() {
        return roomNumber;
    }

    public String getCategory() {
        return category;
    }
}
```

Ln 291, Col 21 11,296 characters

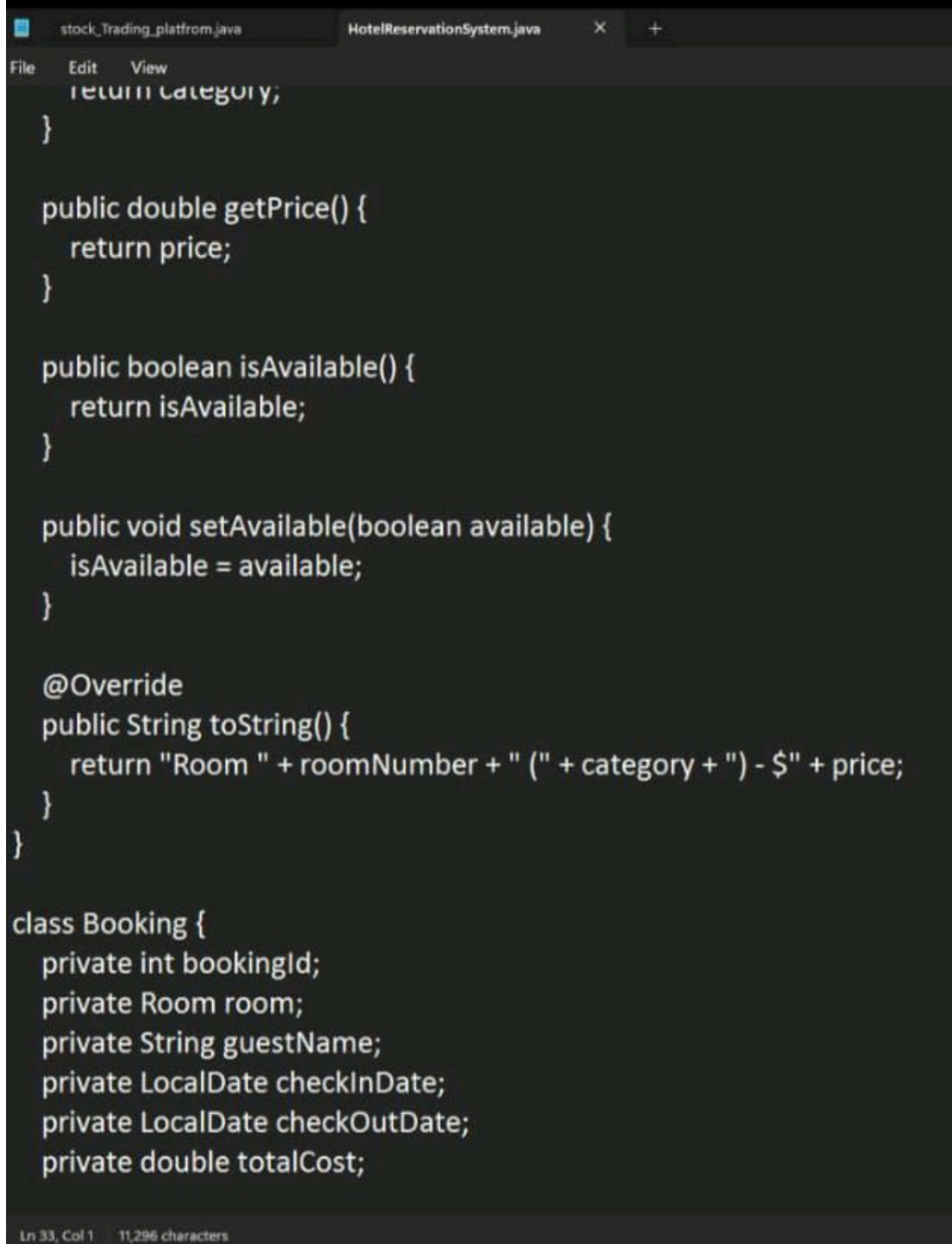


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The screenshot shows an IDE with two tabs: 'stock_Trading_platform.java' and 'HotelReservationSystem.java'. The 'HotelReservationSystem.java' tab is active, displaying the following Java code:

```
return category;
}

public double getPrice() {
    return price;
}

public boolean isAvailable() {
    return isAvailable;
}

public void setAvailable(boolean available) {
    isAvailable = available;
}

@Override
public String toString() {
    return "Room " + roomNumber + " (" + category + ") - $" + price;
}
}

class Booking {
    private int bookingId;
    private Room room;
    private String guestName;
    private LocalDate checkInDate;
    private LocalDate checkOutDate;
    private double totalCost;
```

At the bottom of the IDE, a status bar indicates 'Ln 33, Col 1' and '11,296 characters'.



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```
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public LocalDate getCheckOutDate() {
    return checkOutDate;
}

public double getTotalCost() {
    return totalCost;
}

private long getNumberOfNights() {
    return ChronoUnit.DAYS.between(checkInDate, checkOutDate);
}

@Override
public String toString() {
    return "\n\tBooking ID: " + bookingId + "\n" +
        "\tRoom: " + room + "\n" +
        "\tGuest Name: " + guestName + "\n" +
        "\tCheck-in Date: " + checkInDate + "\n" +
        "\tCheck-out Date: " + checkOutDate + "\n" +
        "\tTotal Cost: $" + totalCost;
}

class Hotel {
    private List<Room> rooms;
    private List<Booking> bookings;
    private Map<String, Double> paymentMethods;
}
```

Ln 81, Col 6 11,296 characters

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```
private double totalCost;
```

```
public Booking(int bookingId, Room room, String guestName, LocalDate checkInDate, LocalDate checkOutDate) {  
    this.bookingId = bookingId;  
    this.room = room;  
    this.guestName = guestName;  
    this.checkInDate = checkInDate;  
    this.checkOutDate = checkOutDate;  
    this.totalCost = room.getPrice() * getNumberOfNights();  
}
```

```
public int getBookingId() {  
    return bookingId;  
}
```

```
public Room getRoom() {  
    return room;  
}
```

```
public String getGuestName() {  
    return guestName;  
}
```

```
public LocalDate getCheckInDate() {  
    return checkInDate;  
}
```

```
public LocalDate getCheckOutDate() {
```

```
public boolean makeReservation(int roomNumber, String guestName, LocalDate checkInDate, LocalDate checkOutDate) {
    for (Room room : rooms) {
        if (room.getRoomNumber() == roomNumber && room.isAvailable()) {
            Booking booking = new Booking(nextBookingId++, room, guestName, checkInDate, checkOutDate);
            bookings.add(booking);
            room.setAvailable(false);
            System.out.println("\n\tReservation made successfully! Booking ID: " + booking.getBookingId());
            return true;
        }
    }
    System.out.println("\n\tRoom not available or not found!");
    return false;
}

public void viewBookingDetails(int bookingId) {
    for (Booking booking : bookings) {
        if (booking.getBookingId() == bookingId) {
            System.out.println(booking);
            return;
        }
    }
    System.out.println("\n\tBooking not found!");
}
```