Republic of the Philippines
CAMARINES SUR POLYTECHNIC COLLEGES
Nabua, Camarines Sur

COLLEGE *of* COMPUTER STUDIES

Object Oriented Programming
CS 214 / IT 213

[Dormitory Management System]

Team Name: PseudoBitTech

Team Members:

- Caritos, Alyssa P.
- Gava, John Christian
- Tampoco, Anne Louise

Project Description:

A Dormitory Management System is a system in that users can manage the information of the tenant and view room availability. This management system aims to view the tenant information and all of the vacant rooms for possible new occupancy and also view the payment of the tenant.

Features/Functionality:

- View Tenants
- View Rooms
- Make a Payment
- Apply for a new occupancy

Scope and Limitation:

A Dormitory Management System is used for monitoring and updating the information of tenants, room, application for new occupancy, and payment of tenants. Anything irrelevant to these is therefore out of the scope of the system. The dormitory management system was only made to monitor the information regarding tenants, new occupants, payment, and rooms. The limitation of this system is It will not automatically tell the user if the tenant has a payment due.
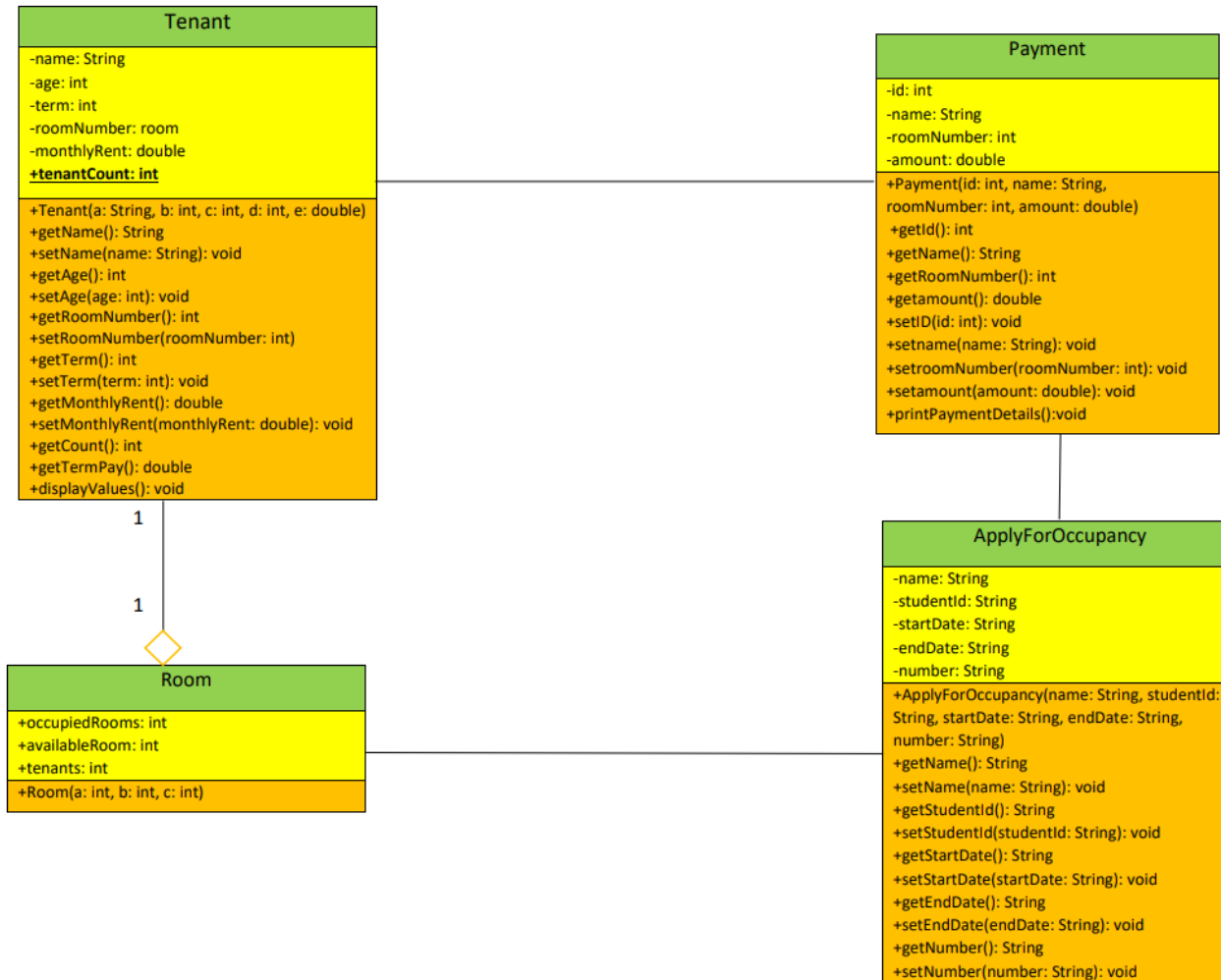
Basic Classes:

- Tenant
- Room
- Payment
- ApplyForOccupancy

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Class Diagram:

Tenant

-name: String
-age: int
-term: int
-roomNumber: room
-monthlyRent: double
+tenantCount: int

+Tenant(a: String, b: int, c: int, d: int, e: double)
+getName(): String
+setName(name: String): void
+getAge(): int
+setAge(age: int): void
+getRoomNumber(): int
+setRoomNumber(roomNumber: int)
+getTerm(): int
+setTerm(term: int): void
+getMonthlyRent(): double
+setMonthlyRent(monthlyRent: double): void
+getCount(): int
+getTermPay(): double
+displayValues(): void

Payment

-id: int
-name: String
-roomNumber: int
-amount: double

+Payment(id: int, name: String, roomNumber: int, amount: double)
+getId(): int
+getName(): String
+getRoomNumber(): int
+getamount(): double
+setID(id: int): void
+setname(name: String): void
+setroomNumber(roomNumber: int): void
+setamount(amount: double): void
+printPaymentDetails():void

Room

+occupiedRooms: int
+availableRoom: int
+tenants: int
+Room(a: int, b: int, c: int)

ApplyForOccupancy

-name: String
-studentId: String
-startDate: String
-endDate: String
-number: String

+ApplyForOccupancy(name: String, studentId: String, startDate: String, endDate: String, number: String)
+getName(): String
+setName(name: String): void
+getStudentId(): String
+setStudentId(studentId: String): void
+getStartDate(): String
+setStartDate(startDate: String): void
+getEndDate(): String
+setEndDate(endDate: String): void
+getNumber(): String
+setNumber(number: String): void

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Team Member Contribution:

- Caritos, Alyssa P.
  - Documentation
- Gava, John Christian
  - Program Code
- Tampoco, Anne Louise
  - Documentation

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Screenshot of Sample Run:

- Functionality 1

```
----- Dormitory Management System Menu -----
        1. View tenants
        2. View rooms
        3. Make a payment
        4. Apply for a new occupancy
        5. Quit

Enter Command: 1
--------------- LIST OF TENANTS --------------------
NAME        AGE         TERM        ROOM Number      RENT
Christian   22          3           1                503.0
Alyssa      20          4           2                700.0
Anne        23          1           3                600.0
```

- Functionality 2

```
----- Dormitory Management System Menu -----
        1. View tenants
        2. View rooms
        3. Make a payment
        4. Apply for a new occupancy
        5. Quit

Enter Command: 2
--------------- VIEW ROOMS --------------------
NUMBER OF OCCUPIED ROOMS:   3
NUMBER OF AVAILABLE ROOMS: 5
NUMBER OF TENANTS:          3
```

- Functionality 3

```
----- Dormitory Management System Menu -----
        1. View tenants
        2. View rooms
        3. Make a payment
        4. Apply for a new occupancy
        5. Quit

Enter Command: 3
Enter your ID: 12345
 ID NUMBER      NAME        ROOM NUMBER      PAYMENT
[12345, Christian, 1, 503.0]
```

- Functionality 4

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```
Enter Command: 4

----Please input details for your Applying occupancy----
Enter your name: Aile
Enter your student ID: C21098208
Enter your Mobile Number: 09091234568
Enter the starting date (mm/dd/yyyy): 12/20/2022
Enter the ending date (mm/dd/yyyy): 6/20/2023


Thank You for Applying, will contact you after 2 working days.
Thank You!
```

Self Rating: The group must decide what grade you will give to your own project. Choose from 75 to 100.