

OOSD rehearsal

Wednesday, December 30, 2020 8:30 PM

Good morning to Dr Chai and fellow audience. We're from Group 7 presenting Online Hospital Blood Test Appointment.

First of all lemme introduce my team member, thy are ...
And myself ...

DEMO CODE

Q&A

1. How can u relate ur class diagram to ur code?

In our class diagram, we have 5 class. Thy are **Homepage** class, **Admin** class, **Patient** class, **Appointment** class and **Payment** class. inheritance

2. How do u implement ur objectives based on ur case study into ur class diagram?

GG

3. Based on question 2, how did u implement those objectives within ur code?

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4. What relationship did u have in ur class diagram?

Association- In our project, the relationship between Admin and Patient is shown which is register.

Aggregation- For our project, the class Patient is made up of one or more Appointment. In aggregation, the contained classes are never totally dependent on the lifecycle of the container. Here, the Patient class will remain even if the Appointment is not available.

Composition- For our project, if Appointment is composed of class payment. The appointment could contain payment, while each payment belongs to only one appointment. So, if appointment is not functioning all the payment also removed.

5. Based on ur class diagram, what do u mean by multiplicity from class xx to class xx?

Each **admin** register one or many **patients**
Each **patient** registered by one **admin**.

Each **patient** book one or many **appointments**
Each **appointment** booked by one **patient**

Each **appointment** has one **payment**
Each **payment** has one or many **appointment**

6. Which class is inherited by other class?

classes Admin and Patient inherit class Homepage

7. Give me a reason why u create this class...

class Homepage, Admin, Patient-> inheritance...

class appointment and payment-> function for patient to fulfil objectives

8. For class Admin, which attributes are inherited from class Homepage?

Every attribute and method in class Homepage

9. Which class did u apply concept polymorphism (override, overload)?

Class Homepage, Admin, and Patient.

Overloading -> function w same name but different arguments, same method difference parameter (Homepage.h [code line 18 & 19])

Overriding -> when subclass have same method as superclass but behave differently. homepage.login() in admin and patient implementation file

10. Why u encapsulate these attributes and operands to private, protected, public?

Private-> To avoid modifying member/ declaration.

Protected-> can be accessed in derived classes.

Public-> can be accessed by any function or other class.

11. Based on ur code, which method can be related to ur objectives in case study?

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12. What concept did u apply for ur User Interface design?

Command Line Interface

13. What is the functionality of ur object in code?

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14. which part in ur code apply with oo concept -- encapsulation, polymorphism, abstraction, inheritance, class, object?

Encapsulation -> built on the idea of data hiding. Restrict access of certain attribute or method of object to whatever is calling that object.

Private-> To avoid modifying member/ declaration.

Protected-> can be accessed in derived classes.

Public-> can be accessed by any function or other class.

Polymorphism -> direct translation: many form. Allows you to determine what function to run.

Overloading -> same method difference parameter (Homepage.h [code line 18 & 19])

Overriding -> homepage.login() in admin and patient implementation file

Abstraction -> only show the necessary details to user of the object. Example separate header file and implementation file from main file.

Inheritance -> allow code reusability. For example, you've an existing class and you want to built a new class that uses the stuff from the previous class but you wanna add additional feature. Classes Admin and Patient inherit class Homepage

Extra information

Why empty constructor?

For integer declare only.

TOD

homepage	- holi
register patient	- holi
view user list	- holi
view all appointment	- holi
patient login(ali)	- chris
edit patient detail	- chris
view profile	- chris
change patient password	- amar
make appointment	- amar
view appointment	- amar
patient login(ahkao)	- zaki
edit patient detail	- zaki
view profile	- zaki
make appointment	- lee ji
view appointment	- lee ji
atient login(muthu)	- lee ji
edit patient detail	- miza
view profile	- miza
make appointment	- miza
view appointment	- miza
view all appointment	- holi