

Java Clinic Project

Thursday, March 9, 2023 6:28 PM

Interface Create_Cancel- This interface will be used to create and cancel a doctor, patient, appointment, Treatment, Insurance - Saranya

Abstract class - Person - Diego

Class - Doctor (super class) with generalization & > general practitioner (sub class) > (specialist sub class) - Saranya

Class - Patient - Serena

Class - Treatment

Class - Appointment

Class - Insurance

Use Cases

Use case 1

Create a Doctor

User - Human resources

Use case 1.A

Cancel a Doctor (When a doctor stops working for the clinic)

Classes	Person	Doctor	GeneralPractitioner/Specialist
Interface	Create_Cancel		
Method	Set		
Method	Get general/specialist		
Method	Cancel		

Use Case 2

Create a Patient

User - Receptionist

Use case 2.A

Cancel - When a patient stops being a patient

Classes	Person	Patient	
Interface	Create_Cancel		
Method	Set		
Method	Get Insurance (check part of member or Not / Boolean)		
Method	Cancel		
Method	Complete		

Use Case 3

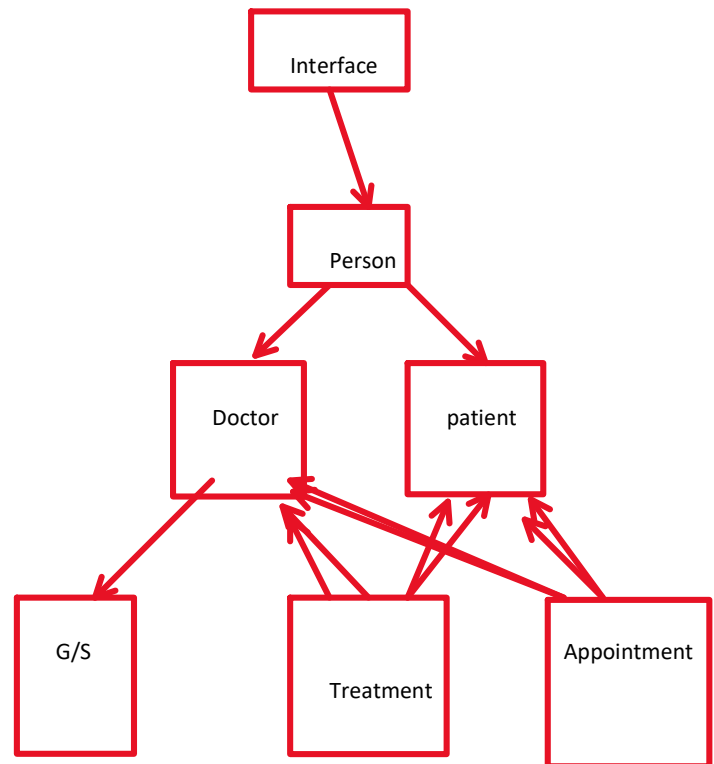
Create a Treatment

User - Doctor

Use case 3.A

Cancel - When a treatment is cancelled

Classes	Treatment	Patient	Doctor
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Interface	Create_Cancel		
Method	Set		
Method	Get Patient		
Method	Get Doctor		

Use Case 4

Create an Appointment

User - Receptionist

Use case 4.A

Cancel - when an appointment is cancelled

Classes	Appointment	Patient	Doctor
Interface	Create_Cancel		
Method	Set		
Method	Get Patient		
Method	Get Doctor		
Method	Get Calendar		

Availability



Have a methods for calendar and store appointment in a generic class like list or array list and keep appending on deleting on cancellation

Use Case 5

Create an Insurance

User - Receptionist

Use case 5.A

Cancel - When an insurance company stops being a member

Classes	Treatment	Patient	Doctor
Interface	Create_Cancel		
Method	Set		

Classes

Person

Data Members
Name
Address
Birthdate
Phone

Methods	Explanation
Set all data members	
Get all data members	

Doctor Super/sub class

Data Members
Start date

Methods	Explanation
Set data members	

End date
ID
Part time or full time

Get data members	
Get Gen_spec	
Number of years with clinic	

General practioner_Speciazation (Sub class)

Data Members
Start date
Department general practitioner true, if false(Boolean)
Specialist list

Methods	Explanation
Set data members	
Get data members	
Set Gen_spec	
Get Gen_spec	
Number of years of experience	

Patient

Data Members
Name Insurance_provider
Patient ID

Methods	Explanation
Set insurance_provider	Is member or no (boolean), if no set new create

appointment

Data Members
Date
Hour
Status
List <> or arraylist <> Days

Methods	Explanation
Get Doctor	
Get patient	
Private class	

Treatment

Data Members
Diagnostic
Medicine
Therapy
Test

Methods	Explanation
Get doctor	
Get patient	

Insurance_Members

Data Members
Insurance_Centre
Insurance ID

Methods	Explanation
Set all data members	Insurance id auto generate
Get Insurance centre	
Get insurance ID	