Problem identification

A vet asks to carry out a program that develops the following specifications: register new clients with their pets, that is, that the system stores the data of a user with its respective animal. Perform a hospitalization consisting of hosting a pet in a mini room of the veterinarian and at the same time create a clinical history for it. Make a report of all clinical records that exist at the time and show this report to the user. In addition, when the user requires it, he must show the contact details of a specific client. After this the program must calculate the total cost of a hospitalization taking into account the days that this pet, the type of pet and the cost for medications. Finally, the application must register a pet, for this you must remove the pet from the mini room where you are and eliminate the clinical history of that room, but you must first store this in a history of medical records.

Entities

Vet

- Name
- Relation with (mini room, medical record, person)

MiniRoom

- Availability
- Relation with (Medical record)

MedicalRecord

- Symptom
- Diagnosis
- Relation with (Date, medicine, person, pet)

Person

- Name
- Id

- Address
- Phone
- Relation with (Pet)

Pet

- Name
- Age
- Weight
- Relation with (Medical record)

Date

- Day
- Month
- Year

Medicine

- Name
- Dose
- Dose cost
- Frequency

Specifications

Name	S# 1 Sign clients with their pets			
Resume	Allows to the vet sign new clients, according to his name, id, address and			
	phone and a pet with name, specie, age and weight.			
Input	Input			
Client: name, id, address and phone.				
Pet: name, specie, age and weight.				
Output				
The client	The client has been signed			

Name S# 2 Hospitalization

Allows to know if the mini room is available to get a pet in and then create a		
medical record.		
Input		
A pet, a mini room		
Output		
A new pet has been introduced to a mini room and its medical record has been created		
1		

Name	S# 3 Report of medical records		
Resume	Implement a complete report of all the medical record of the hospitalized		
	patients at the moment		
Input	Input		
<any></any>			
Output			
The report has been created			
-			

Name	S# 4 Contact information of the owner		
Resume	Shows the contact information of the owner of the patient hospitalized using		
	the name of the person or the animal.		
Input	Input		
The name of the person or the animal.			
Output			
"The contact information of the owner is:"			

Name	S# 5 Hospitalization costs		
Resume	Calculate the cost of the hospitalization, taking into account the weight, the		
	specie and the time that the pet is in the hospitalization. Also the medicines		
	that have been applied to the pet.		
Input			
Weight, specie, days in the hospitalization and the medicine dose			
Output			
"The total cost of the hospitalization is:"			

Name	S# 6 Pet discharged	
Resume	Allows to discharge a pet from a mini room and delete its medical record	
	from the mini room	
Input		

A pet		
Output		
"Pet discharged from the room		

Name	S# 7 Medical records history		
Resume	Before a pet has been deleted from a mini room, allows to save its medical		
	record in a history		
Input	Input		
The medical record of the pet			
Output			
"The medical record has been saved"			

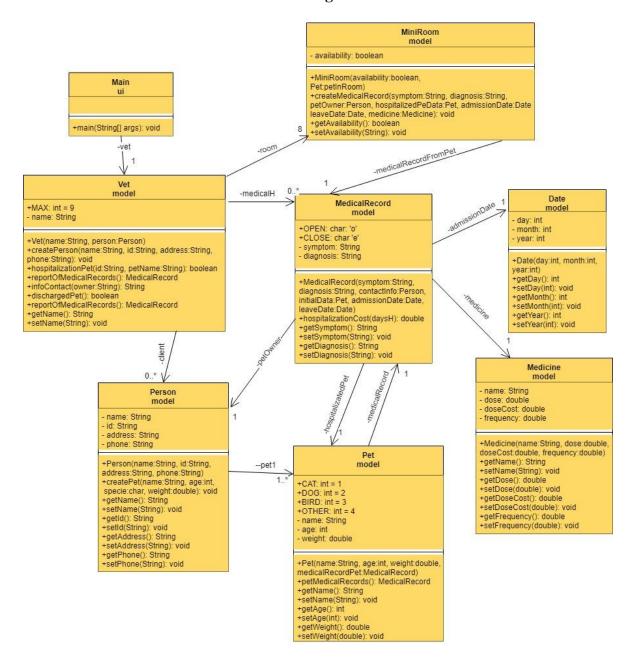
Name	S# 8 Add old medical record to the new one.		
Resume	Whenever a new clinical history is going to be created, check in the history if		
	a pet was already hospitalized, in case there is a previous medical history, it		
	must be added to the new one.		
Input			
A pet	A pet		
0.4.4			
Output			
"A new medical record has been added to the patient:"			
1			

Traceability analysis

<u>s.</u>	Class	Method
#1	Vet, Person	+createPerson(name:String, id:String, address:String, phone:String): void
		+createPet(name:String, age:int,
		specie:char, weight:double): void
#2	Vet	<pre>+hospitalizationPet(id:String, petName:String):</pre>
		boolean
#3	Vet, Pet	+reportOfMedicalRecords(): MedicalRecord
		+petMedicalRecords(): MedicalRecord
#4	Vet	+infoContact(owner:String): String
#5	MedicalRecord	+hospitalizationCost(daysH): double
#6	Vet	+dischargedPet(): boolean
#7	Vet	+dischargedPet(): boolean
#8	Vet	<pre>+hospitalizationPet(id:String, petName:String): boolean</pre>

S.: Specifications

Class diagram



Objects Diagram

