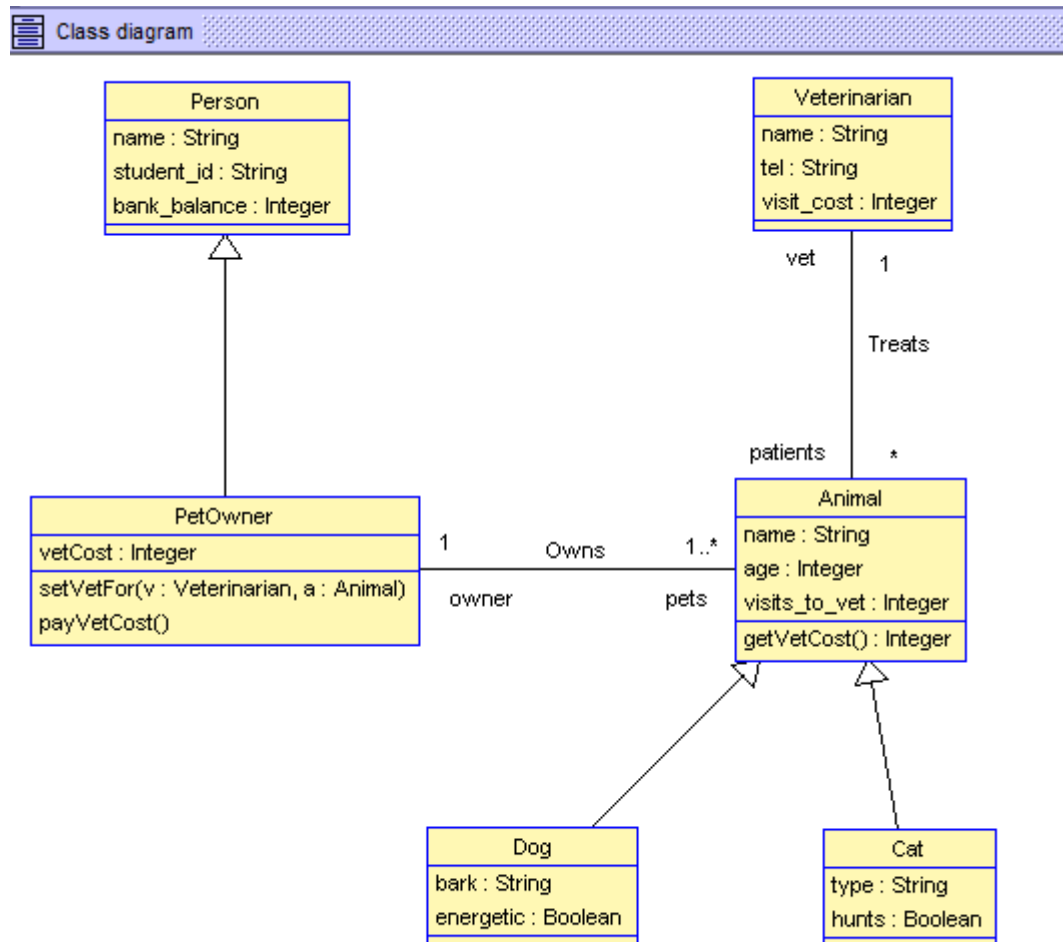


USE Lab Test

1. Complete the partial USE model **pets.use** provided, without yet implementing the 3 operations, so that it looks like class diagram shown next. Then save your USE code as **pets.use** and also save your class layout.
2. Copy and paste you class diagram to a Word document called **report.docx**.



3. Next given the SOIL file **pets.soil** for creating sample objects, load it into USE, rearrange the object layout.

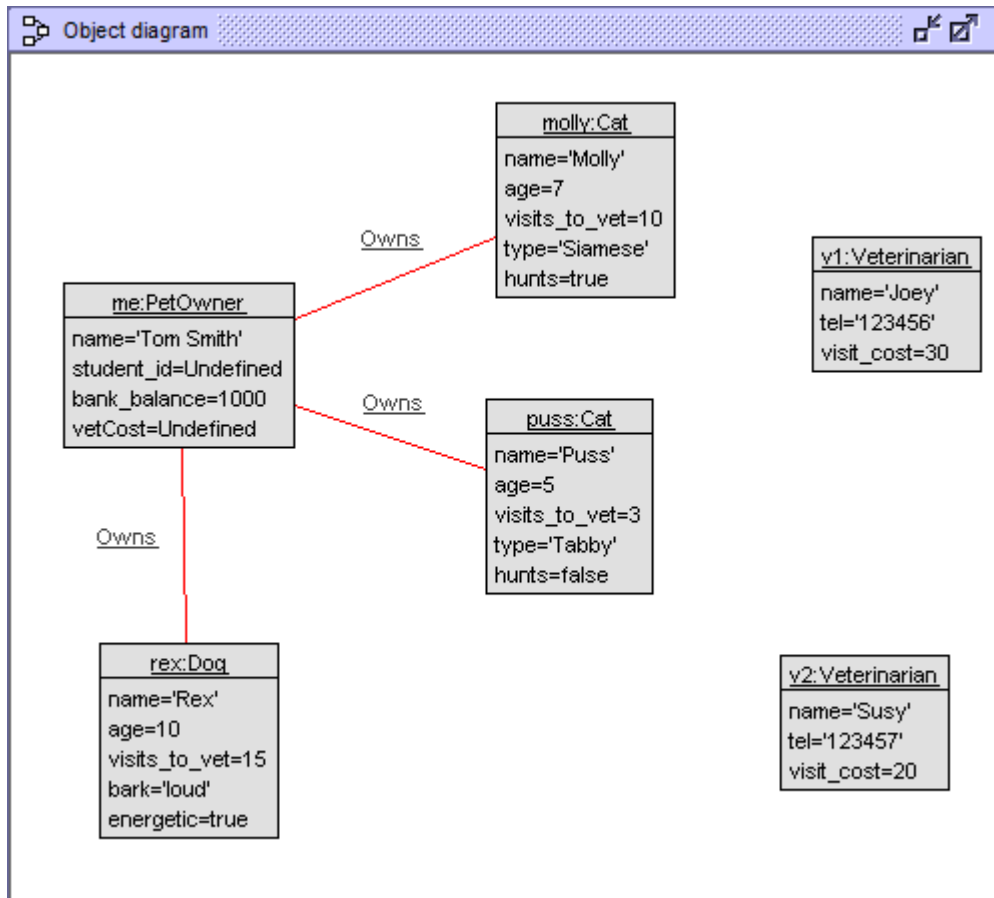
Create two new object for the dog **rex** and the cat **puss** as shown below.

Change the attributes of the **me** object so that it shows your own name and your student id number.

Establish an association between **me** and the two new animal objects.

Resave your SOIL commands to **pets.soil**. It should have code for creating new objects as well as previous object creation code. Also save your object layout.

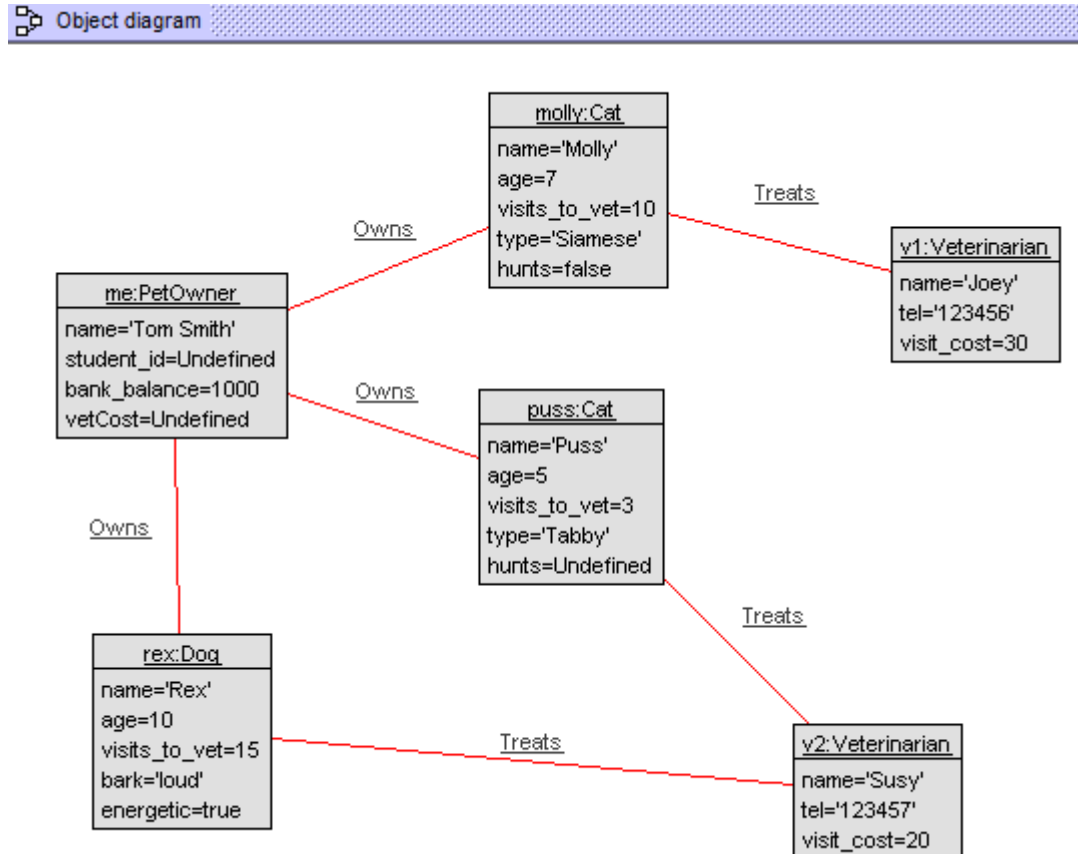
- Copy and paste your new object diagram to **report.docx**.



- Implement in SOIL the operation **setVetFor(v, a)**. Execute it so that it assigns vets to the 3 animals as shown below.

Copy and paste your updated object diagram into the report.

Then resave your SOIL commands as **pets.soil**.



- Implement the two remaining operations: **getVetCost()** and **payVetCost()**. The second should call the first on each animal and then store the overall cost in the attribute **vetCost**. Next it should subtract this cost from the bank balance.

If you succeed in implementing them, reload your **pets.use** and **pets.soil**, and execute **payVetCost()**.

Copy and paste your updated object diagram into the report.

Then resave your SOIL commands to **pets.soil**.

- Create a sequence diagram showing your previous object interactions and copy and paste it to your report.
- Modify **getVetCost()** so that it gives a €2 discount on each visit to the vet for animals aged 6 or older. No need to run it.

Save your use file **pets.use** and also use the menu option **File | Save protocol** to save **pets.txt**.

- Finally, upload to Webcourses [pets.use](#), [pets.soil](#) and [pets.txt](#) along with your [report.docx](#) or [report.pdf](#) (if you have time save the report in PDF format).