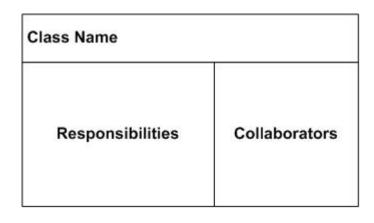
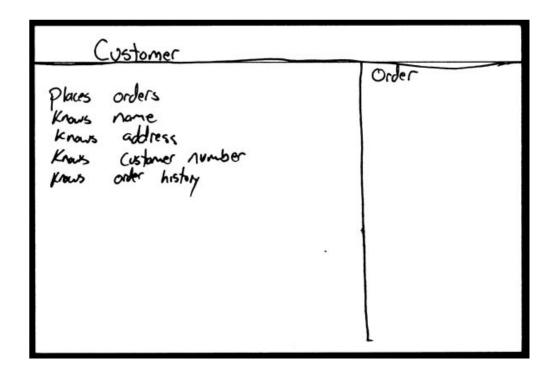
Assignment 1 Discussion

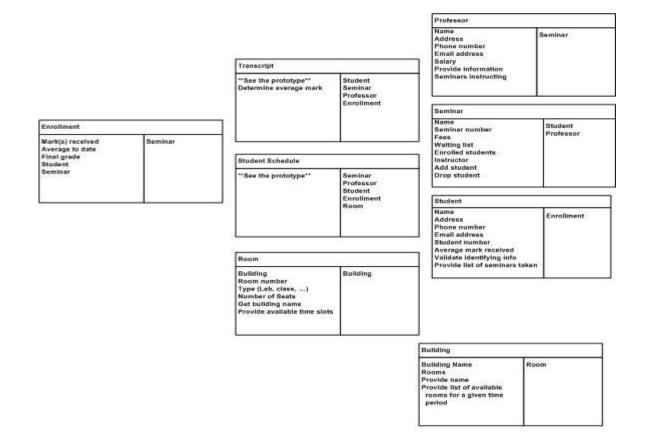
Key Points

- Your assignment 1 is a specification.
- Read the assignment MANY times.
 - See appendix at the end (please not skip it)
- Analysis
 - Identify Suitable Classes
 - Use hints
 - Use CRC form: Class Responsibility Collaboration (See appendix)
 - Check your work again your requirements



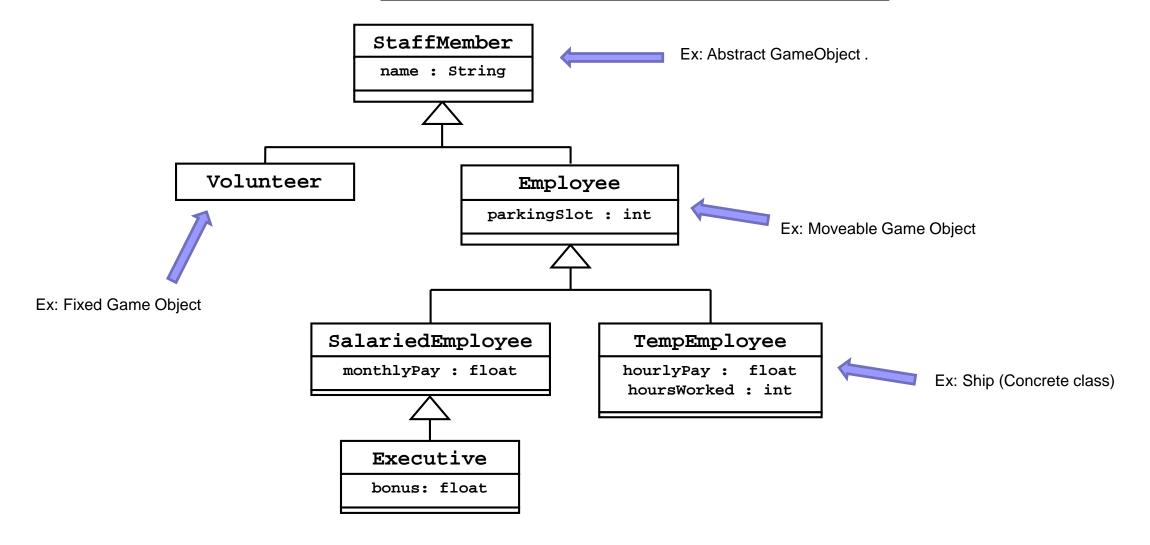




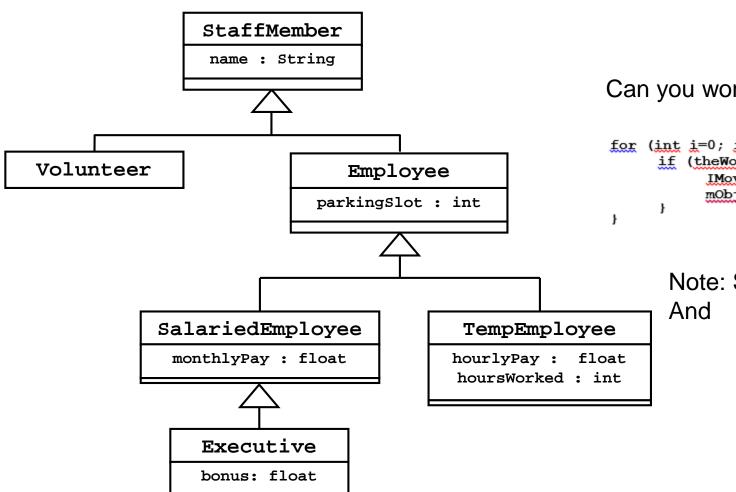


Source: http://agilemodeling.com/artifacts/crcModel.htm

Think sub-classes



Think sub-classes (Cont)



Can you work support Runtime Polymorphism safely?

```
for (int i=0; i<theWorldVector.size(); i++) {
    if (theWorldVector.elementAt(i) instanceof IMovable) {
        IMovable mObj = (IMovable) theWorldVector.elementAt(i);
        mObj.move();
    }
}</pre>
```

Note: See today lecture on Runtime Polymorphism And "Additional details" note in Assignment 1.

Draw your UML Diagram

- Draw your UML in Violet or Creatly
- Check it against the CRC cards and assignment 1 requirements
- Manually execute a few main scenarios
 - Input command 'a'
 - Input command 'm'
 - Which classes will do what ?

Coding after completion of UML Diagram

- Code after the UML diagram
 - A decent version
- Expect to return to UML diagram to make changes once identified issues through coding or testing
- Including comments and correct use of variables, class names, package names
- Proper use of inheritance, encapsulation, polymorphism, interface



- Can I code the entire program without UML diagram?
- Can I generate UML diagram from my Code (code/fix) ?
- Prototyping some key concepts ?
 - I.e. Input processing?
 - Calling the game object?

Testing the Program

- Validate the complete set of commands
- Check for input errors and boundary conditions
 - Your program should not be crashed under these conditions (software quality)
 - Conform to expected output format (i.e. decimal points)
- Final look at code and comments

Turning the assignment (Suggestions)

- Check the deliverable section of the assignment
- Refresh the dist folder
- Run the command to ensure the program can launch correctly
- Turn in your work before February 22 before 5
 PM