

# Lab 1 — Object-Oriented Design

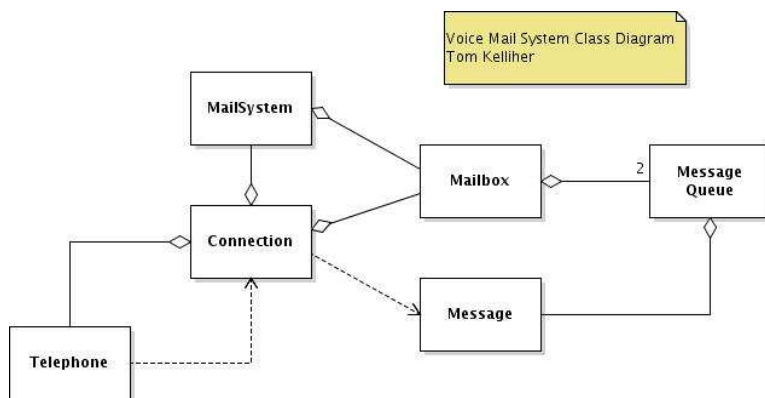
CS 205

Lab objectives:

- Design classes and the relationships between them for a small problem
- Document classes and their relationships with CRC and UML diagrams

You will step through a small design of a problem with CRC cards and UML.

1. Form small groups of around three students. Read through the problem description of exercise 2.18 in your text on pg. 87.
2. With a stack of index cards, describe classes for the problem, recording responsibilities and dependent classes on the cards.
3. Use your cards to walk through several user scenarios. Don't be afraid to tear up your designs and start fresh or go through several iterations before you find a design that works well.
4. Launch Violet and create a new class diagram and document your design in UML. It's pretty easy to achieve something like this:



once you realize that you can right-click on nodes and edges, and then edit properties. Once you finish your UML diagram, save it.

5. Submit one copy of your UML design for the group using GoucherLearn. Include everyone's name in a note in the diagram!