**Class Diagram**

**Narrative:** This diagram represents that classes of objects that the system will be able to represent. It shows the attributes and methods of each class, and the associations and inheritances between classes. An association means that there is a relationship between two classes, and inheritance means that a class will pull attributes and methods from a ‘parent’ class.

The diagram was derived using prototype analysis. The prototypes were designed based on the needs outlined by the use cases for the system. From the prototypes, sequence diagrams were designed that outlined the classes needed for each prototype to interact with the system. Thus, we were able to design our classes, and class diagram by building out from the prototypes that we designed in modeling our proposed system.