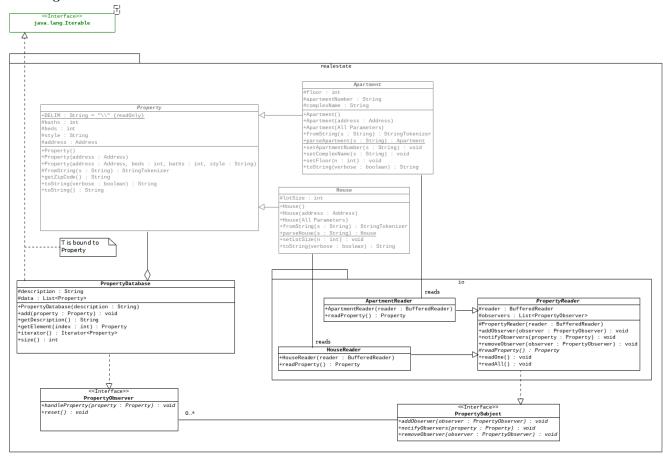


realestate Package v2.0

Class Diagram

The relationships between the various classes and interfaces of the system are illustrated in the following UML class diagram.



Classes that are shown in gray were part of v1.0 of the realestate package, the new classes (and subpackages) are shown in black. Interfaces that are in jade green are part of the Java API.

In addition to the specifications that are contained in this class diagram, the implementation must comply with the following specifications.

The PropertySubject Interface

A PropertySubject is a subject (in the sense of the observer pattern) of Property objects. In other words, it "produces" Property objects.

The PropertyObserver Interface

A PropertyObserver is an observer (in the sense of the observer pattern) of Property objects. In other words, it "consumes" Property objects.

The Property Database Class

A PropertyDatabase object is a collection of Property objects.

Methods

add(Property property)

Must add the given Property to the PropertyDatabase if it is non-null, otherwise it must do nothing.

handleProperty(Property property)

Must add the given Property to the PropertyDatabase if it is non-null, otherwise it must do nothing.

reset()

Must remove all elements from the PropertyDatabase.

The PropertyReader Class

A PropertyReader object is a PropertySubject that reads one or more Property objects from a stream, notifying its observers as each one is read.

Methods

readOne()

Must read a single Property object (using the readProperty() method) and notify all of the observers (but only if the Property object is non-null).

readAll()

Must read all of the Property objects (using the readProperty() method, until it returns null) and notify all of the observers.

The ApartmentReader Class

An ApartmentReader object is a PropertyReader that reads String representations of Apartment objects.

Methods

readProperty()

Must read a single String representation of am Apartment from the inherited attribute named reader, construct a Apartment object from it, and return it. If the reader has reached the end-of-stream, then this method must return null.

This method must assume that there is one String representation per "line" in the stream, and that the "line" contains a verbose String representation of an Apartment object.

The HouseReader Class

A HouseReader object is a PropertyReader that reads String representations of House objects.

Methods

readProperty()

Must read a single String representation of a House from the inherited attribute named reader, construct a House object from it, and return it. If the reader has reached the end-of-stream then this method must return null.

This method must assume that there is one String representation per "line" in the stream, and that the "line" contains a verbose String representation of a House object.