**Medication**

//The medication class is a blueprint for every medication that is put into the system.

//It holds the name of the medication, the units of measurement, possible side effects, and also if there is a generic substitute available for the medication.

**import** java.util.ArrayList;

**public** **class** Medication **implements** Drug {

**private** String medicationId;

**private** String medicationName;

**private** String unitOfMeasurement;

**private** ArrayList<SideEffects> sideEffectsList = **new** ArrayList<SideEffects>();

**private** Boolean genericsAvailable;

**private** ArrayList<Generic> genericList = **new** ArrayList<Generic>();

**public** **void** setGenericsAvailable(Boolean aGenericsAvailable) {

**this**.genericsAvailable = aGenericsAvailable;

}

**public** Boolean getGenericsAvailable() {

**return** genericsAvailable;

}

**public** Medication() {

// this is the empty constructor

}

**public** Medication(String aMedicationId, String aMedicationName,

String aUnitOfMeasurement, ArrayList<SideEffects> aSideEffectsList,

Boolean aGenericsAvailable) {

**super**();

**this**.medicationId = aMedicationId;

**this**.medicationName = aMedicationName;

**this**.unitOfMeasurement = aUnitOfMeasurement;

**this**.sideEffectsList = aSideEffectsList;

**this**.genericsAvailable = aGenericsAvailable;

}

@Override

**public** **void** setMedicationId(String aMedicationId) {

**this**.medicationId = aMedicationId;

}

@Override

**public** **void** setMedicationName(String aMedicationName) {

**this**.medicationName = aMedicationName;

}

@Override

**public** **void** setUnitOfMeasurement(String aUnitOfMeasurement) {

**this**.unitOfMeasurement = aUnitOfMeasurement;

}

@Override

**public** **void** setSideEffectsList(ArrayList<SideEffects> aSideEffectList) {

**this**.sideEffectsList = aSideEffectList;

}

**public** **void** setGeneric(ArrayList<Generic> aGeneric) {

**this**.genericList = aGeneric;

}

@Override

**public** String getMedicationId() {

**return** **this**.medicationId;

}

@Override

**public** String getMedicationName() {

**return** **this**.medicationName;

}

@Override

**public** String getUnitPrescribed() {

**return** **this**.unitOfMeasurement;

}

@Override

**public** ArrayList<SideEffects> getSideEffectsList() {

**return** **this**.sideEffectsList;

}

**public** ArrayList<Generic> getGeneric() {

**return** **this**.genericList;

}

**public** **void** addSideEffects(SideEffects aSideEffect) {

sideEffectsList.add(aSideEffect);

}

**public** **void** addGeneric(Generic aGeneric) {

genericList.add(aGeneric);

}

@Override

**public** String toString() {

String aString = "";

aString = aString + "Medication Id: " + **this**.getMedicationId() + "\n";

aString = aString + "Medication Name: " + **this**.getMedicationName()

+ "\n";

aString = aString + "Unit of Measurement: " + **this**.getUnitPrescribed()

+ "\n";

aString = aString + "Side Effects: \n";

**for** (**int** i = 0; i < sideEffectsList.size(); i++) {

aString = aString + "\t" + sideEffectsList.get(i) + "\n";

}

aString = aString + "Generics Available: "

+ **this**.getGenericsAvailable() + "\n";

**if** (genericsAvailable) {

aString = aString + "Generic: \n";

aString = aString + genericList.size() + "\n";

**for** (**int** i = 0; i < genericList.size(); i++) {

aString = aString + "\t" + genericList.get(i) + "\n";

}

}

aString = aString + "\n";

**return** aString;

}

}