**Generics**

**import** java.util.ArrayList;

//Generics is basic plural class of Generics, it contains an ArrayList of Generic

**public** **class** Generics {

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

//The constructor loads pre-existing Generics into the array list from a text file

**public** Generics() {

DataFileLoader aFileLoader = **new** DataFileLoader();

**try** {

genericList = aFileLoader.getGenerics();

} **catch** (Exception e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

}

**public** **void** add(String genericId, String genericName,

String unitOfMeasurement, Boolean genericsAvailable) {

**this**.remove(genericName);

genericList.add(**new** Generic());

}

**public** **void** remove(String medicationName) {

**int** i = genericList.size() - 1;

**while** (i >= 0) {

**if** (genericList.get(i).getMedicationName().equals(medicationName)) {

genericList.remove(i);

}

i--;

}

}

**public** String getId(**int** i) {

**return** genericList.get(i).getMedicationId();

}

**public** Generic getGeneric(**int** i) {

**return** genericList.get(i);

}

**public** **boolean** contains(String medicationName) {

**boolean** isContained = **false**;

**for** (Generic aMed : genericList) {

**if** (aMed.getMedicationName().equals(medicationName)) {

isContained = **true**;

}

}

**return** isContained;

}

**public** **int** size() {

**return** genericList.size();

}

**public** **boolean** isValid() {

**if** (**this**.size() == 0) {

**return** **true**;

} **else** {

**return** **false**;

}

}

@Override

**public** String toString() {

String aString = "";

**for** (Generic aMed : genericList) {

aString = aString + aMed.toString();

}

**return** aString;

}

}