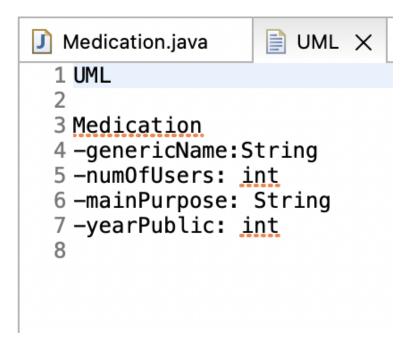
Competencies #2: Objects

1. UML



2. Class

```
package project;
          public class Medication implements ComparableMedication>{
    private String genericName;
    private int numOfUsers;
    private String mainPurpose;
    private int yearPublic;
public Medication(String genericName, int numOfUsers, String mainPurpose, int yearPublic) {
    this.genericName = genericName;
    this.numOfUsers = numOfUsers;
    this.mainPurpose = mainPurpose;
    this.yearPublic = yearPublic;
                 public String getGenericName() {
    return genericName;
                 }
                 public void setGenericName(String genericName) {
   this.genericName = genericName;
                 public int getNumOfUsers() {
    return numOfUsers;
                 public void setNumOfUsers(int numOfUsers) {
    this.numOfUsers = numOfUsers;
                 }
                 public String getMainPurpose() {
    return mainPurpose;
                 }
                 public void setMainPurpose(String mainPurpose) {
   this.mainPurpose = mainPurpose;
                 }
                 public int getYearPublic() {
    return yearPublic;
}
                 public void setYearPublic(int yearPublic) {
   this.yearPublic = yearPublic;
                 }
                 public String toString() {
    return "Medication: \t" + this.genericName + ", num of users: \t #" + this.numOfUsers + "Main purpose: \t" + this.mainPurpose + "Year open to public: \t" + this.yearPublic;
                 public boolean equals(Medication med) {
   if(this.toString().equalsIgnoreCase(med.toString())) {
      return true;
   } else {
      return false;
}
                         }
                 }
                 @Override
public int compareTo(Medication med) {
   if(this.getGenericName().compareTo(med.getGenericName()) >0) {
     return 1;
   } else if(this.getGenericName().compareTo(med.getGenericName()) < 0) {
     return -1;
   } else {
      return 1;
   }
}</pre>
```