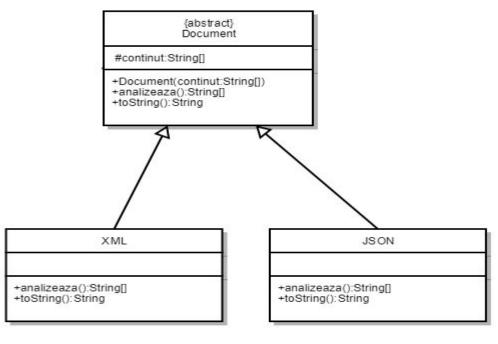
UML Diagrams

Laboratory 2

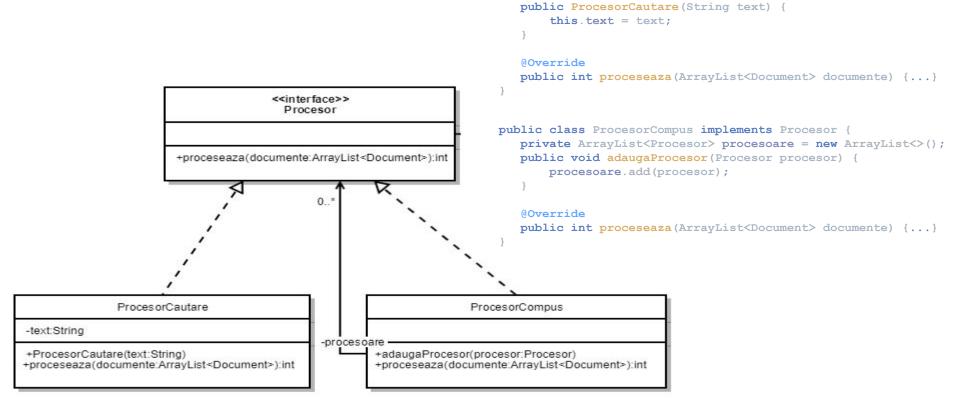
Class Diagram

Prima ierarhie



```
package loose.oose.fis.documents;
public abstract class Document {
   protected String[] continut;
   public Document(String[] continut) {
        this.continut = continut;
   public abstract String[] analizeaza();
   @Override
   public String toString() {...}
public class JSON extends Document {
  public JSON (String[] continut) {super(continut);}
  @Override
  public String[] analizeaza() {...}
  @Override
  public String toString() {...}
public class XML extends Document {
   public XML (String[] continut) {super(continut);}
   @Override
   public String[] analizeaza() {...}
   @Override
   public String toString() {...}
```

A doua ierarhie



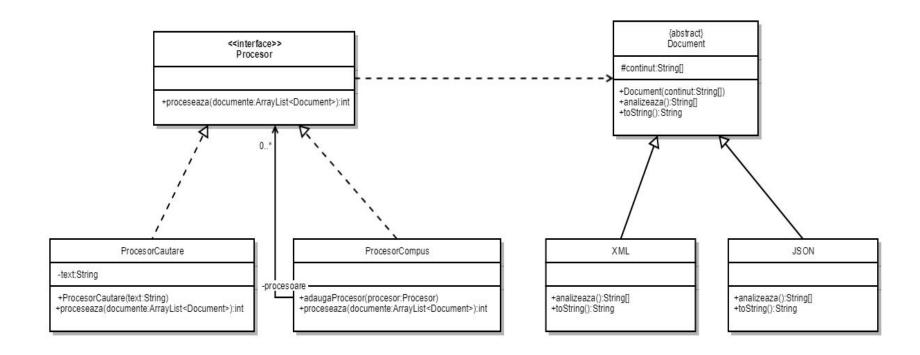
public interface Procesor {

private String text;

int proceseaza(ArrayList<Document> documente);

public class ProcesorCautare implements Procesor {

Versiune finala



Sequence Diagram

Main

```
String[] xmlList = new String[6];
xmlList[0] = "<taq1>";
xmlList[1] = "text1";
                                                   ProcesorCompus pc1 = new ProcesorCompus();
xmlList[2] = "</tag1>";
                                                   pcl.adaugaProcesor(c1);
xmlList[3] = "<taq2>";
                                                   pc1.adaugaProcesor(c2);
xmlList[4] = "text2";
xmlList[5] = "</tag2>";
                                                   ProcesorCompus pc2 = new ProcesorCompus();
                                                   pc2.adaugaProcesor(pc1);
Document xml = new XML(xmlList);
                                                   pc2.adaugaProcesor(c3);
                                                   System. out. println(pc2.proceseaza(documente));
ArrayList<Document> documente = new ArrayList<>();
documente.add(xml);
Procesor c1 = new ProcesorCautare("text1");
Procesor c2 = new ProcesorCautare("text3");
Procesor c3 = new ProcesorCautare("text2");
```

Procesor

```
public class ProcesorCautare implements Procesor {
   @Override
   public int proceseaza(ArrayList<Document> documente) {
       int res = 0;
       for (Document document : documente) {
           String[] continut = document.analizeaza();
           for (String cuvant : continut)
               if (cuvant.equals(text))
                   res++;
       return res;
                                                  public class ProcesorCompus implements Procesor {
                                                      @Override
                                                     public int proceseaza(ArrayList<Document> documente) {
                                                          int res = 0;
                                                          for (Procesor procesor: procesoare) {
                                                              res += procesor.proceseaza(documente);
                                                          return res;
```

pc2.proceseaza(docs)

pc2.proceseaza(docs)

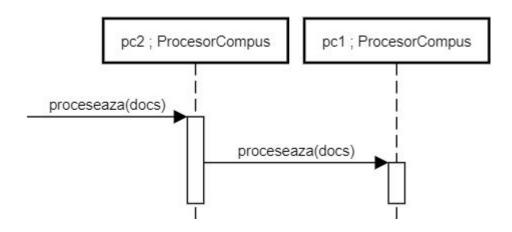
pc2; ProcesorCompus

proceseaza(docs)

pcl.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

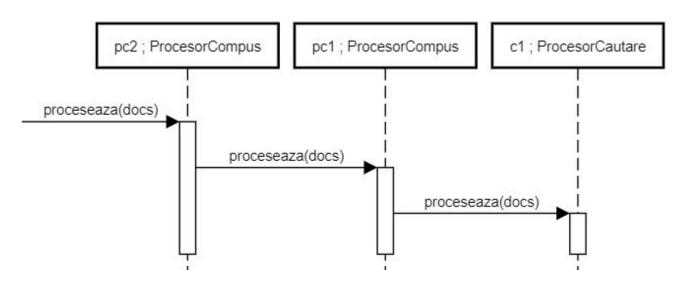


cl.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

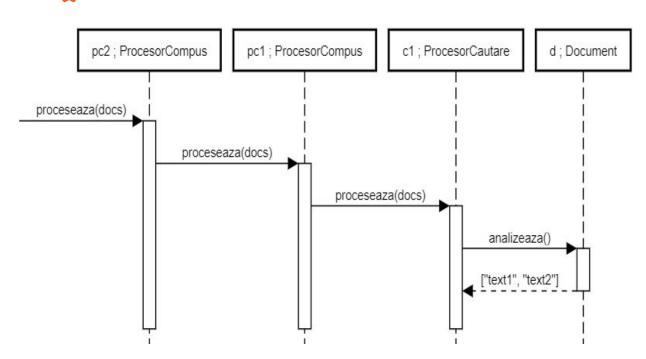


d.analizeaza() in c1

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)



c2.proceseaza(docs)

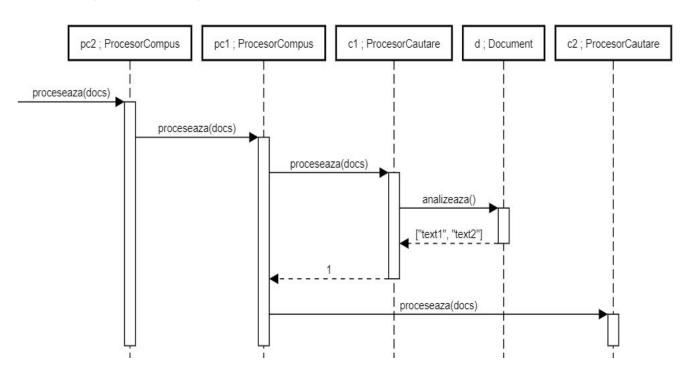
pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)



d.analizeaza() in c2

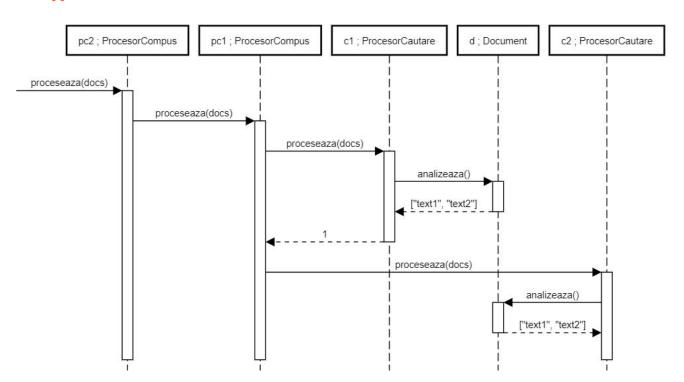
pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)



c3.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

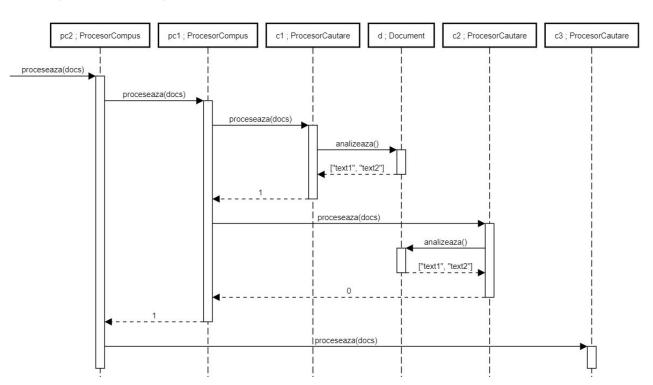
c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)



d.analizeaza() in c3

pc2.proceseaza(docs)

pc1.proceseaza(docs)

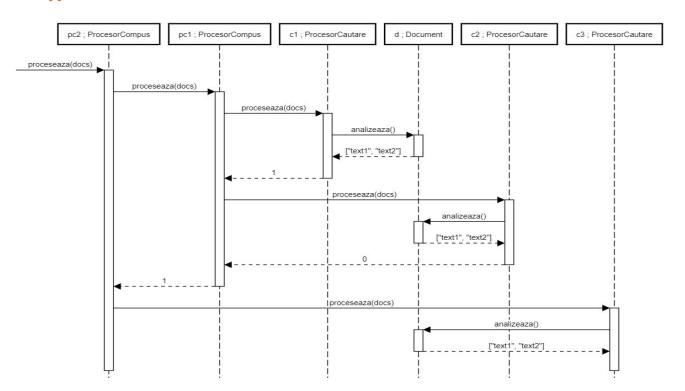
c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)



Versiune finala

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)

