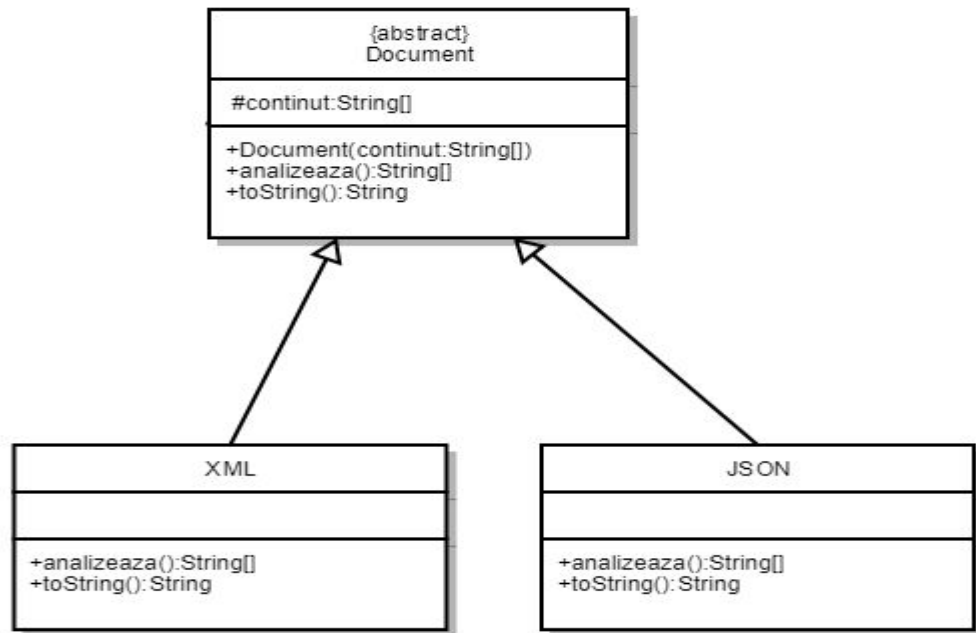


# UML Diagrams



# Class Diagram

# Prima ierarhie



```
package loose.oose.fis.documents;

public abstract class Document {
    protected String[] continut;

    public Document(String[] continut) {
        this.continut = continut;
    }

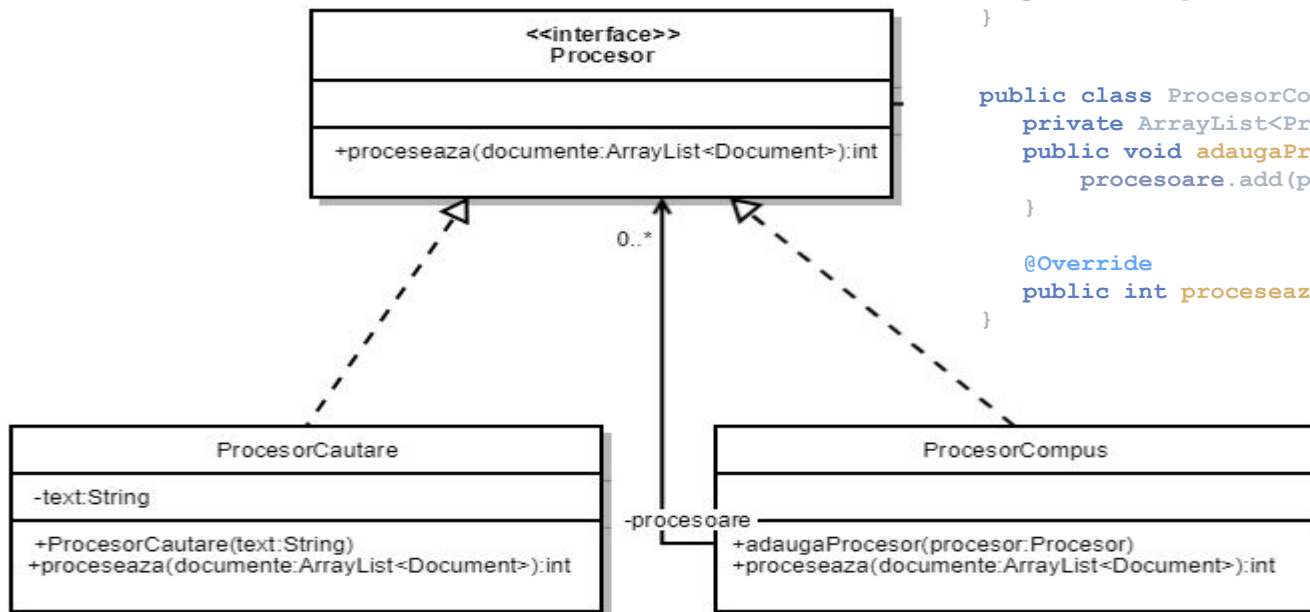
    public abstract String[] analizeaza();

    @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 Processor {
    int proceseaza(ArrayList<Document> documente);
}

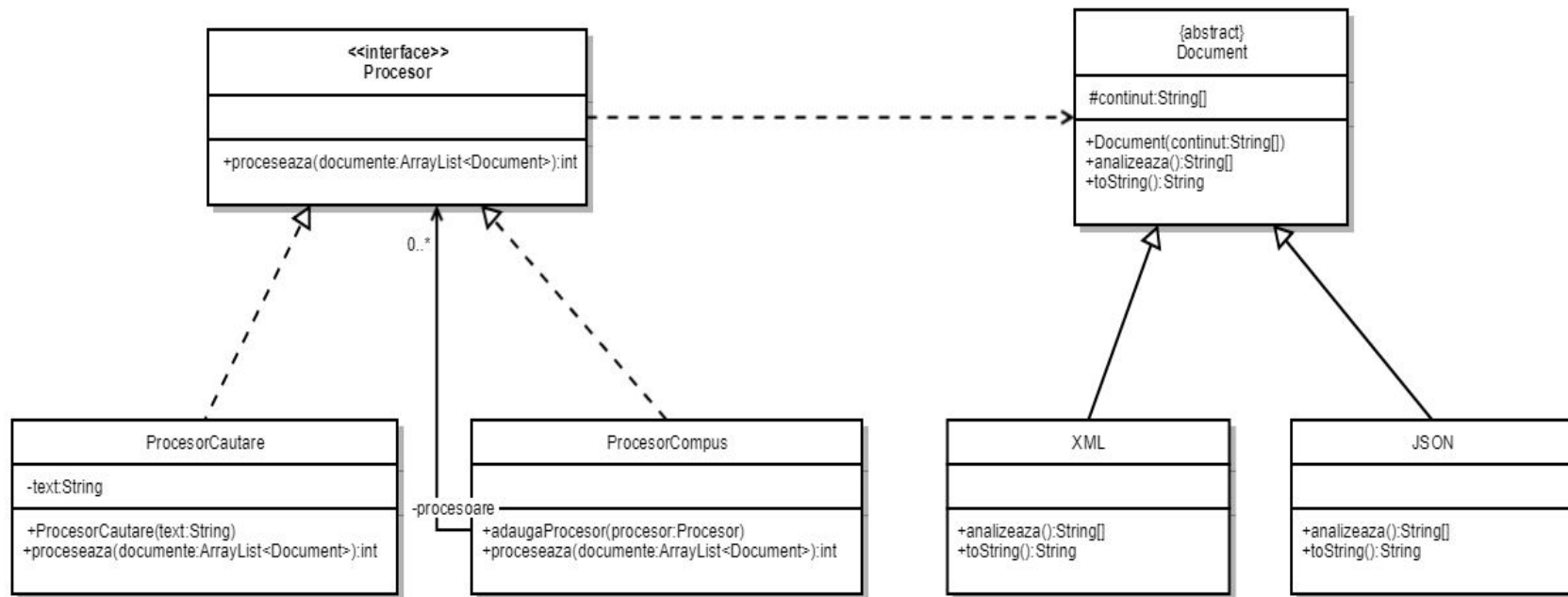
public class ProcesorCautare implements Processor {
    private String text;
    public ProcesorCautare(String text) {
        this.text = text;
    }

    @Override
    public int proceseaza(ArrayList<Document> documente) {...}
}

public class ProcesorCompus implements Processor {
    private ArrayList<Processor> procesoare = new ArrayList<>();
    public void adaugaProcesor(Processor procesor) {
        procesoare.add(procesor);
    }

    @Override
    public int proceseaza(ArrayList<Document> documente) {...}
}
```

# Versiune finala



# Sequence Diagram

# Main

```
String[] xmlList = new String[6];  
xmlList[0] = "<tag1>";  
xmlList[1] = "text1";  
xmlList[2] = "</tag1>";  
xmlList[3] = "<tag2>";  
xmlList[4] = "text2";  
xmlList[5] = "</tag2>";
```

```
Document xml = new XML(xmlList);
```

```
ArrayList<Document> documente = new ArrayList<>();  
documente.add(xml);
```

```
Procesor c1 = new ProcesorCautare("text1");  
Procesor c2 = new ProcesorCautare("text3");  
Procesor c3 = new ProcesorCautare("text2");
```

```
ProcesorCompus pc1 = new ProcesorCompus();  
pc1.adaugaProcesor(c1);  
pc1.adaugaProcesor(c2);
```

```
ProcesorCompus pc2 = new ProcesorCompus();  
pc2.adaugaProcesor(pc1);  
pc2.adaugaProcesor(c3);
```

```
System.out.println(pc2.proceseaza(documente));
```

# Procesor

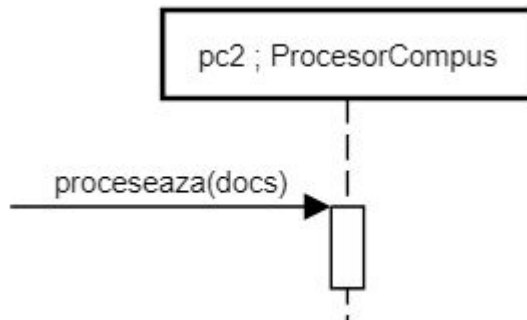
```
public class ProcesorCautare implements Procesor {  
    @Override  
    public int proceseaza(ArrayList<Document> documente) {  
        int res = 0;  
        for (Document document : documente) {  
            String[] continut = document.analizeaza();  
            for (String cuvant : continut)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

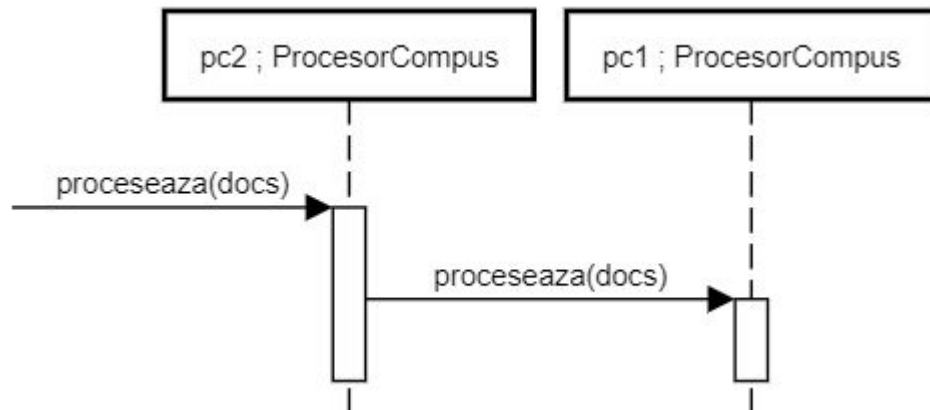
pc2.proceseaza(docs)



# pc1.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

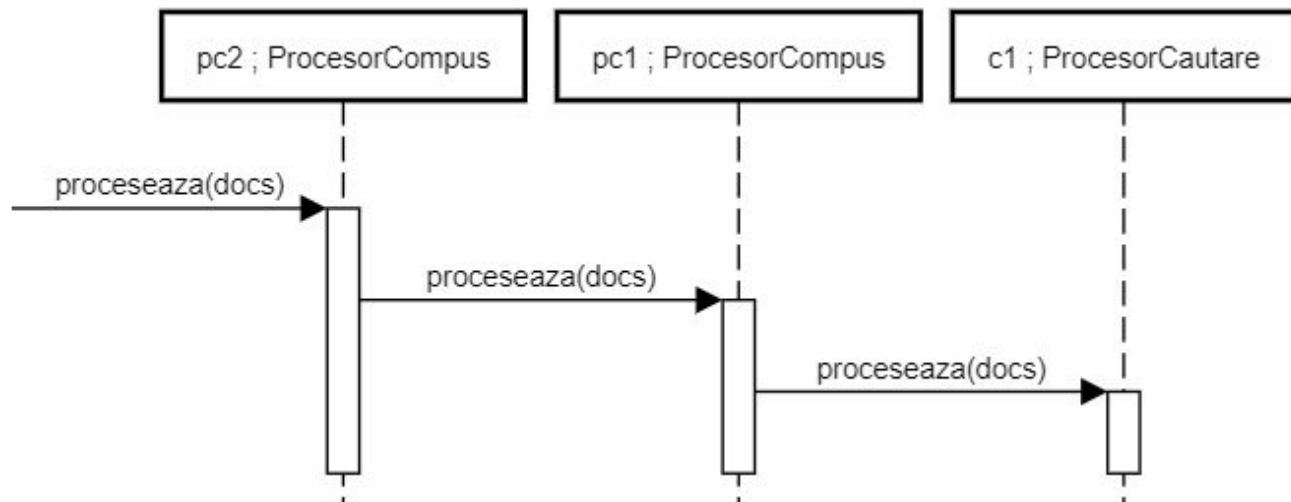


# c1.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)



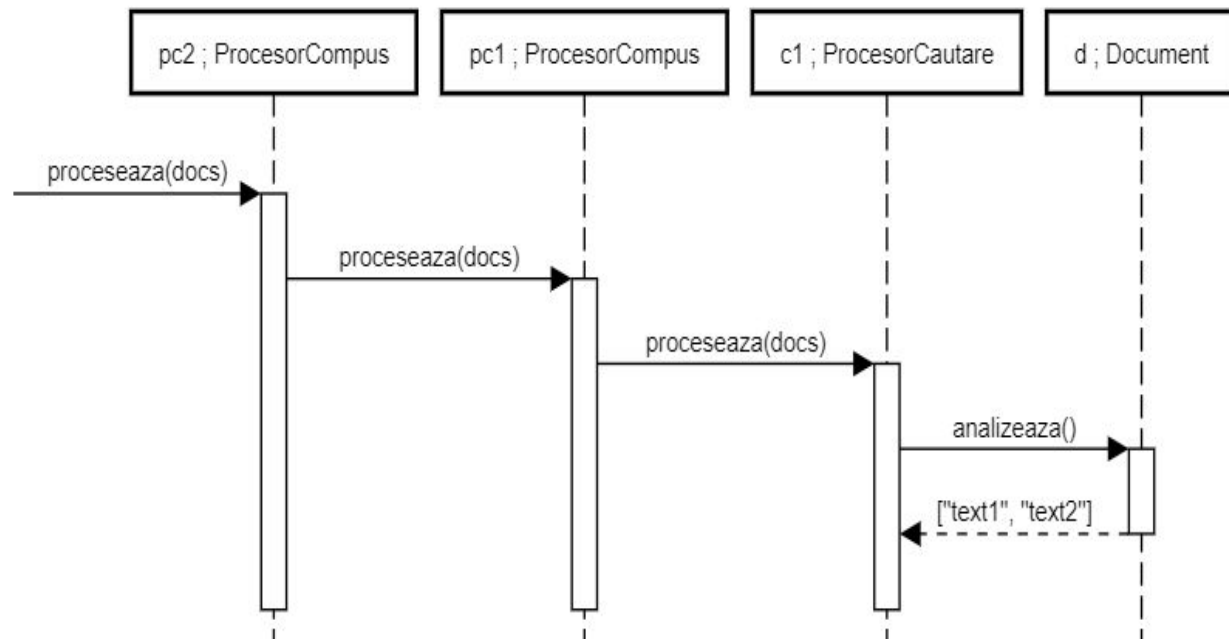
# d.analizeaza() in c1

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()



# c2.proceseaza(docs)

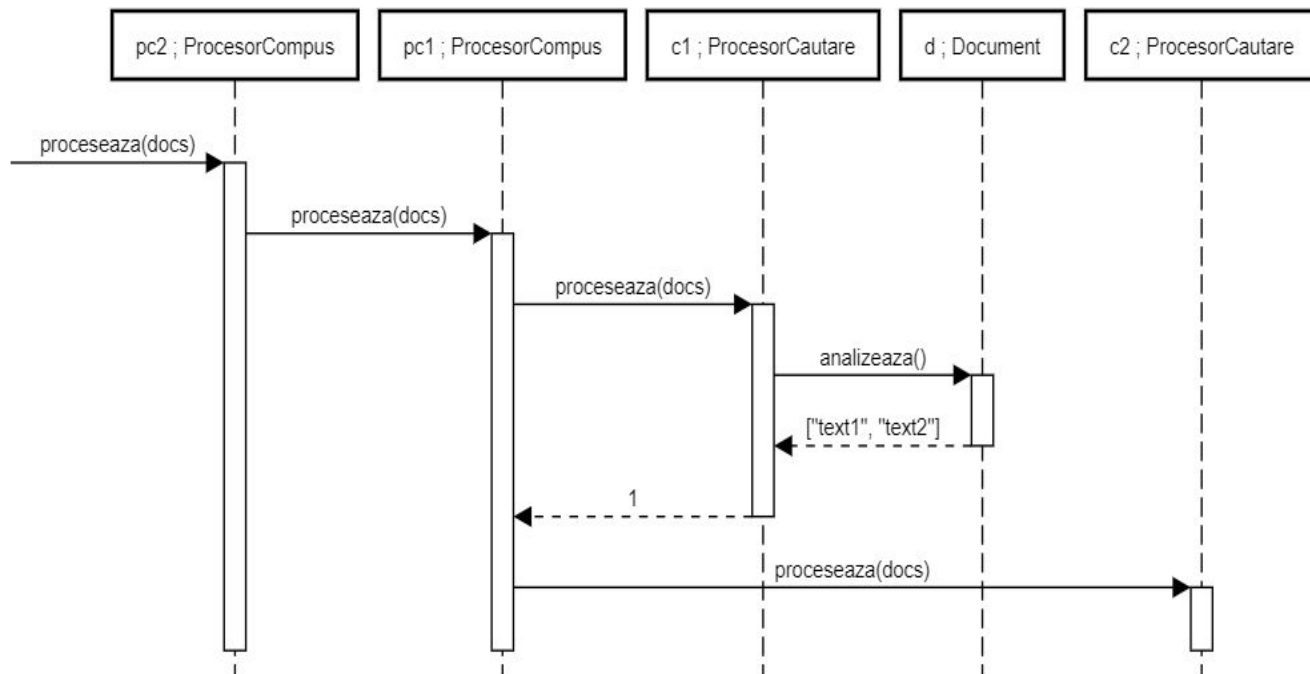
pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)



# d.analizeaza() in c2

pc2.proceseaza(docs)

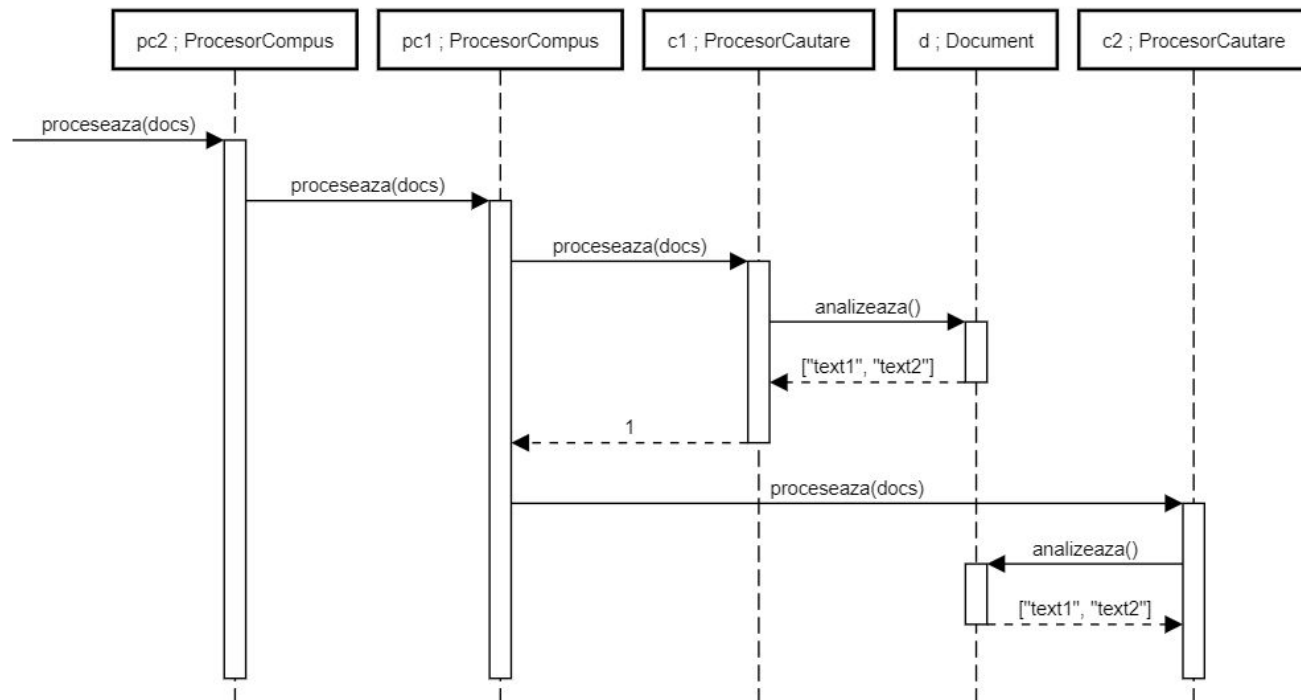
pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()



# c3.proceseaza(docs)

pc2.proceseaza(docs)

pc1.proceseaza(docs)

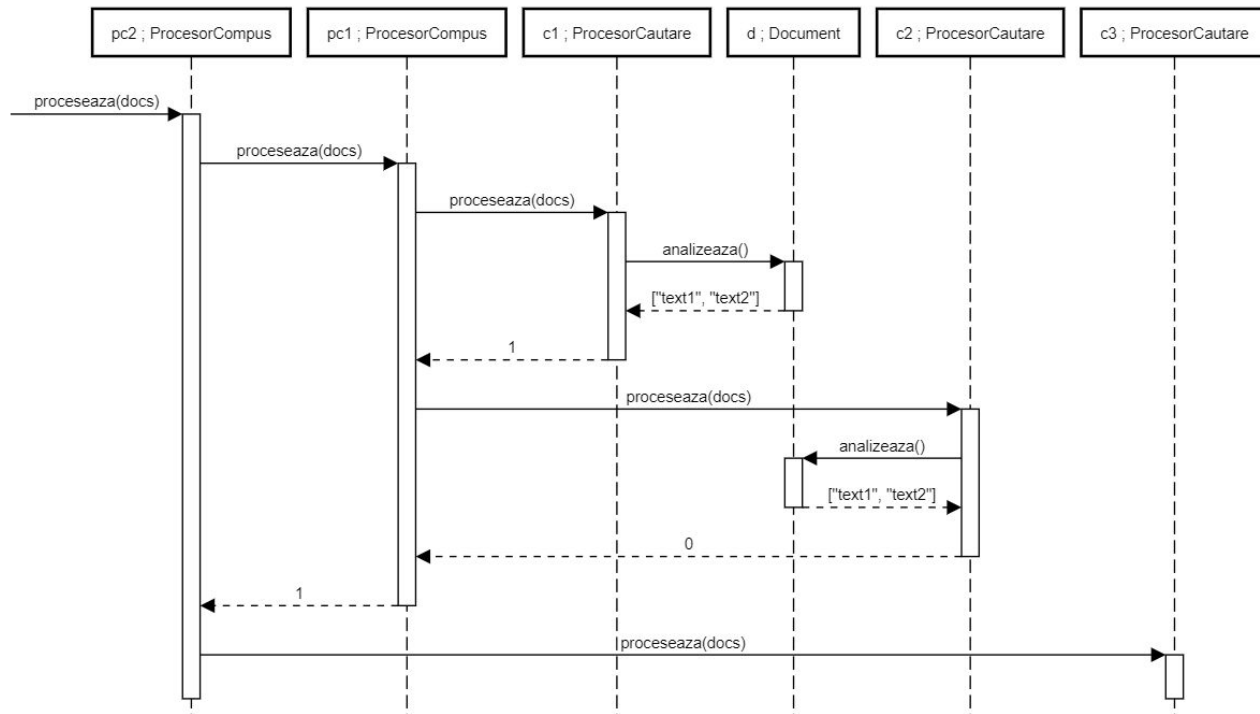
c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)



# d.analizeaza() in c3

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

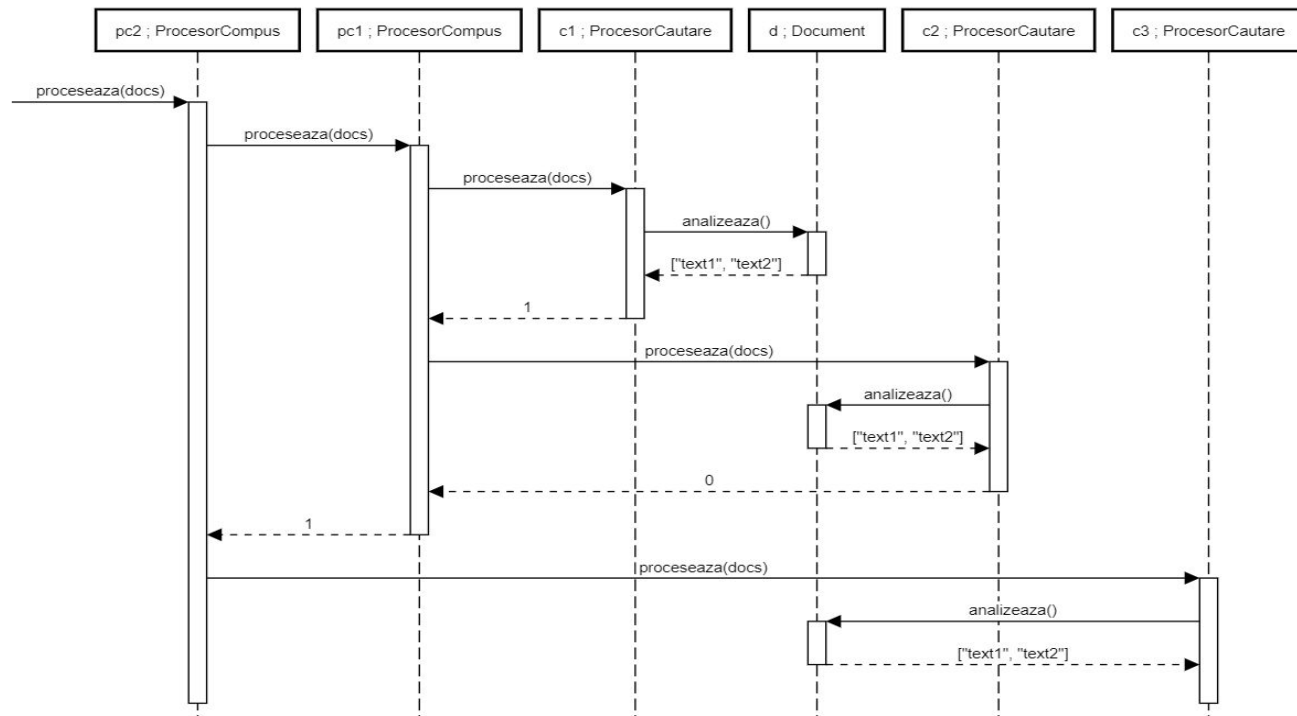
d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)

d.analizeaza()





# Versiune finala

pc2.proceseaza(docs)

pc1.proceseaza(docs)

c1.proceseaza(docs)

d.analizeaza()

c2.proceseaza(docs)

d.analizeaza()

c3.proceseaza(docs)

d.analizeaza()

