

# Projet Doctologie



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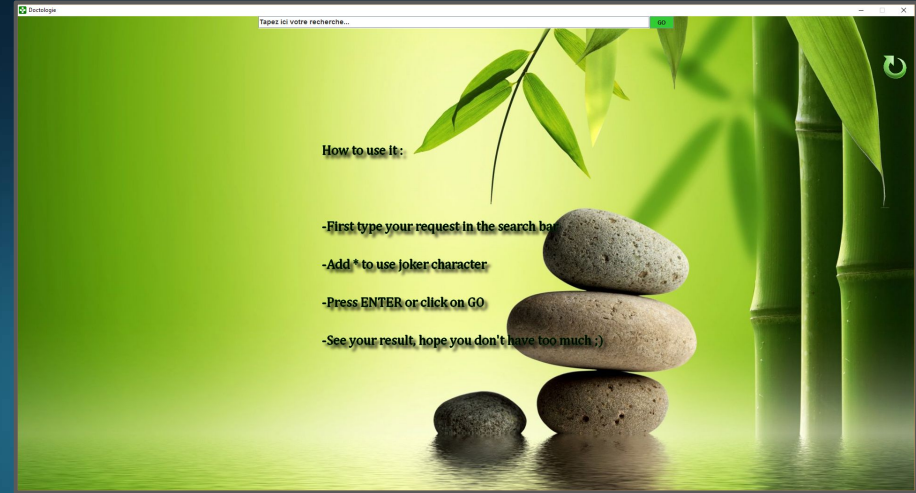
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# Introduction

- 7 bases de données
- Java/Eclipse
- 4 API/librairies
- Interface graphique simple
- Recherche rapide\*



# Les sources

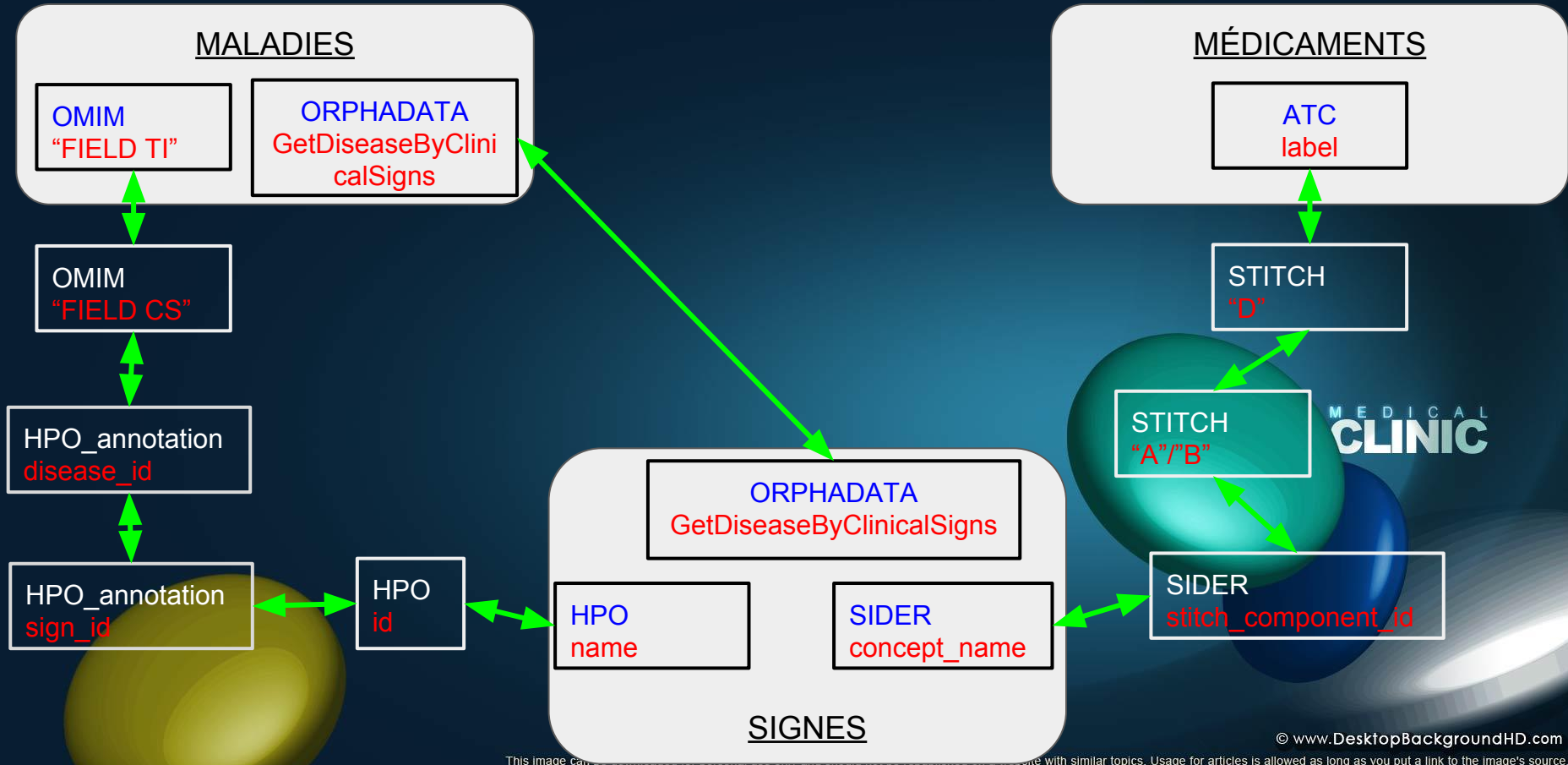
- OrphaData
- Sider 4.1
- STITCH
- ATC
- HPO
- HPO\_Annotation
- Omim

- API LightCouch
- Librairie MYSQL
- LUCENE
- LUCENE
- LUCENE
- Librairie SQL Light
- LUCENE

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# Mappings :



# Démonstration



# Point technique

- Java/Eclipse
- 1 API DATA (CouchDB)
- 1 API index (Lucene)
- 2 librairies (MySQL & SQLite)
- Java Swing
- Prétraitement ~ 1h

```
1 package main;
2
3 import java.io.BufferedReader;
4
5
6
7
8 public class MainSearch {
9
10     public MainSearch() {}
11
12     private static MainWindow window ;
13
14     public static DiseasesCollection searchDiseaseBySign(String request){
15         ArrayList<String> diseasesOrphadata = new ArrayList<String>();
16         ArrayList<ArrayList<String>> diseasesHPO = new ArrayList<ArrayList<String>>();
17
18         diseasesOrphadata.clear();
19         // Orphadata
20         ArrayList<String> signs = new ArrayList<String>();
21
22         String[] listSigns = null;
23         listSigns = request.split(",");
24         for (int i = 0 ; i<listSigns.length ; i++){
25             signs.add(listSigns[i]);
26         }
27         diseasesOrphadata = SearchCouchDB.getDiseaseBySign(signs);
28
29         // HPO
30         try {
31             SearchFilesObs.main2(request);
32             diseasesHPO = SearchFilesObs.getResultList();
33         } catch (Exception e) {
34             e.printStackTrace();
35         }
36         ArrayList<String> diseasesHPOClean = new ArrayList<String>();
37         for (int i = 0 ; i < diseasesHPO.size() ; i++){
38             System.out.println(diseasesHPO);
39             if (!diseasesHPOClean.contains(diseasesHPO.get(i).get(0))){
40                 diseasesHPOClean.add(diseasesHPO.get(i).get(0));
41             }
42         }
43
44         // HPO_annotations
45         ArrayList<String> listIdDiseases = new ArrayList<String>();
46         for (int i = 0 ; i < diseasesHPOClean.size() ; i++){
```

# Conclusion

- Fonctionnel
- Simple
- Facilement améliorable
- Mise à jour





# Merci pour votre attention



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