

LexEVS caGrid Code Examples

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LexEVS Code Examples Links

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Connection to the LexEVS Grid Service

Java Code

```
try{
    LexBIGServiceGridAdapter lbg = new LexBIGServiceGridAdapter
        ("http://localhost:8080/wsrf/services/cagrid/LexEVSGridService");
} catch(java.net.ConnectException e){
    //Error Connecting
    e.printStackTrace();
} catch(org.apache.axis.types.URI.MalformedURIException e){
    //URL Syntax Error
    e.printStackTrace();
}
```

Searching for concepts in NCI Thesaurus containing the string "Gene"

Java Code Snippet

```
//Create a Connection to the Grid Service
LexBIGServiceGrid lbs = new LexBIGServiceGridAdapter(gridServiceURL);

//Set up the CodingSchemeIdentification object to define the Coding Scheme</font>
CodingSchemeIdentification csid = new CodingSchemeIdentification();
csid.setName("NCI Thesaurus");

//Get the CodedNodeSet for that CodingScheme (This returns a CodedNodeSet Service Context)
CodedNodeSetGrid cnsG = lbs.getCodingSchemeConcepts(csid, null);
//getCodingSchemeConcepts is a Grid Service Call

//Set the text to match
MatchCriteria matchText = new MatchCriteria();
matchText.setText("Gene");
//Define a SearchDesignationOption, if any
SearchDesignationOption searchOption = new SearchDesignationOption();

//Choose an algorithm to do the matching
ExtensionIdentification matchAlgorithm = new ExtensionIdentification();
matchAlgorithm.setLexBIGExtensionName("contains");

//Chose a language
LanguageIdentification language = new LanguageIdentification();
language.setIdentifier("en");

//Restrict the CodedNodeSet
cnsG.restrictToMatchingDesignations(matchText, searchOption, matchAlgorithm, language);
//restrictToMatchingDesignations is a Grid Service Call

//Create a SetResolutionPolicy to handle the details of Resolving the CodedNodeSet
//Here, we will set the Maximum number of Concepts returned to 10.
SetResolutionPolicy resolvePolicy = new SetResolutionPolicy();
resolvePolicy.setMaximumToReturn(10);

//Do the resolve
ResolvedConceptReferenceList rcrlst = cnsG.resolveToList(resolvePolicy);
//resolveToList is a Grid Service Call

//Use the returned ResolvedConceptReferenceList to print some details about the concepts found
ResolvedConceptReference[] rcref = rcrlst.getResolvedConceptReference();
for (int i = 0; i < rcref.length; i++) {
    System.out.println(rcref[i].getConceptCode());
    System.out.println(rcref[i].getReferencedEntry().
        getPresentation()[0].getText().getContent());
}
```

Request History Service

Java Code Snippet

```
HistoryServiceGrid history = lbs.getHistoryService(org.LexGrid.LexBIG.DataModel.cagrid.
CodingSchemeIdentification);
```

Request LexBIGService Metadata

Java Code Snippet

```
LexBIGServiceMetadataGrid metadata = lbs.getServiceMetadata();
```

Request LexBIGService Convenience Methods

Java Code Snippet

```
LexBIGServiceConvenienceMethodsGrid lbscm = lbs.getGenericExtensions(org.LexGrid.LexBIG.DataModel.cagrid.  
ExtensionIdentification);
```

LexBIGService Adapter

Java Code Snippet

```
LexBIGService lbs = new LexBIGServiceAdapter("http://lexevsapi-analytical50.nci.nih.gov/wsrp/services/cagrid  
/LexEVSGridService");
```

LexBIGService Grid Adapter

Java Code Snippet

```
LexBIGServiceGrid lbs = new LexBIGServiceGridAdapter("http://lexevsapi-analytical50.nci.nih.gov/wsrp/services  
/cagrid/LexEVSGridService");
```