

MetaDataSearch Java

Java Code

```
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 *         http://www.eclipse.org/legal/epl-v10.html
 */
package org.LexGrid.LexBIG.example;

import java.util.Enumeration;
import org.LexGrid.LexBIG.DataModel.Collections.AbsoluteCodingSchemeVersionReferenceList;
import org.LexGrid.LexBIG.DataModel.Collections.MetadataPropertyList;
import org.LexGrid.LexBIG.DataModel.Core.AbsoluteCodingSchemeVersionReference;
import org.LexGrid.LexBIG.DataModel.Core.MetadataProperty;
import org.LexGrid.LexBIG.Exceptions.LBException;
import org.LexGrid.LexBIG.Impl.LexBIGServiceImpl;
import org.LexGrid.LexBIG.LexBIGService.LexBIGService;
import org.LexGrid.LexBIG.LexBIGService.LexBIGServiceMetadata;

/**
 * Example how to query stored metadata for a code system. For the example, use
 * the LoadSampleMetaDataData.bat to load the required code system and metadata.
 */
public class MetaDataSearch {

    public MetaDataSearch() {
        super();
    }

    /**
     * Entry point for processing.
     *
     * @param args
     */
    public static void main(String[] args) {

        if (args.length < 1) {
            System.out.println("Example: MetaDataSearch \"test string\"");
            return;
        }
        ;

        try {
            String s = args[0];
            System.out.println("string passed: " + s);
            new MetaDataSearch().run(s);
        } catch (Exception e) {
            Util.displayAndLogError("REQUEST FAILED !!!", e);
        }
    }

    public void run(String s) throws LBException {
```

```

try {
    LexBIGService lbs = LexBIGServiceImpl.defaultInstance();

    LexBIGServiceMetadata smd = lbs.getServiceMetadata();

    AbsoluteCodingSchemeVersionReferenceList al = smd.listCodingSchemes();

    int i = 0;
    AbsoluteCodingSchemeVersionReference ref = null;

    for (Enumeration<AbsoluteCodingSchemeVersionReference> items = al
        .enumerateAbsoluteCodingSchemeVersionReference(); items.hasMoreElements();) {
        ref = items.nextElement();
        String curn = ref.getCodingSchemeURN();
        String csvers = ref.getCodingSchemeVersion();

        // Search for localName in metadata for specified coding scheme
        smd = lbs.getServiceMetadata();
        smd.restrictToCodingScheme(ref);

        // Restrict to properties. In this example, 'localName'
        smd.restrictToProperties(new String[] { s });
        printCodingSchemes(curn, csvers, smd.resolve(), s);

        i++;
    }

    System.out.println();

} catch (Exception e) {
    e.printStackTrace();
}

}

private static void printCodingSchemes(String urn, String version, MetadataPropertyList mdpl, String
searchString) {

    int i = 0;
    System.out.println("Results for metadata search in coding scheme: " + urn + " (" + version + ")");
    System.out.println();
    System.out.println("Search String: " + searchString);
    System.out.println();

    for (Enumeration<MetadataProperty> items = mdpl.enumerateMetadataProperty(); items.hasMoreElements();) {
        MetadataProperty mdp = items.nextElement();
        i++;

        System.out.println("[ " + i + " ] " + mdp.getValue());

    }
    System.out.println();
    System.out.println("Count: " + i);

    System.out.println();
    System.out.println();

}

}

```