

CodingSchemeSelectionMenu Java

Java Code

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 */
package org.LexGrid.LexBIG.example;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.ArrayList;
import java.util.Formatter;
import java.util.List;

import org.LexGrid.LexBIG.DataModel.Collections.CodingSchemeRenderingList;
import org.LexGrid.LexBIG.DataModel.Core.CodingSchemeSummary;
import org.LexGrid.LexBIG.DataModel.InterfaceElements.CodingSchemeRendering;
import org.LexGrid.LexBIG.Exceptions.LBException;
import org.LexGrid.LexBIG.Impl.LexBIGServiceImpl;
import org.LexGrid.LexBIG.LexBIGService.LexBIGService;

/**
 * Helper class used to display a list of available code systems and return the
 * user selection.
 */
public class CodingSchemeSelectionMenu {
    static final String Dash5 = "-----";
    static final String Dash15 = "-----";
    static final String Dash25 = "-----";
    static final String Dash30 = "-----";

    public CodingSchemeSelectionMenu() {
        super();
    }

    /**
     * Displays a list of available coding schemes.
     *
     * @return The ordered list of coding scheme summaries as displayed.
     * @throws LBException If an error occurs displaying the list.
     */
    protected List<CodingSchemeSummary> displayCodingSchemes() throws LBException {
        List<CodingSchemeSummary> choices = new ArrayList<CodingSchemeSummary>();

        LexBIGService lbs = LexBIGServiceImpl.defaultInstance();
        CodingSchemeRenderingList schemes = lbs.getSupportedCodingSchemes();

        if (schemes.getCodingSchemeRenderingCount() == 0)
            Util.displayMessage("No coding schemes found.");
    }
}
```

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else {

    Formatter f = new Formatter();

    String format = "%-5.5s|%-30.30s|%-25.25s|%-15.15s\n";
    Object[] hSep = new Object[] { Dash5, Dash30, Dash25, Dash15 };
    f.format(format, hSep);
    f.format(format, new Object[] { "#", "Local Name", "Version", "Tag" });
    f.format(format, hSep);
    CodingSchemeRendering[] csr = schemes.getCodingSchemeRendering();
    for (int i = 1; i <= csr.length; i++) {
        String nu = String.valueOf(i);

        CodingSchemeSummary css = csr[i - 1].getCodingSchemeSummary();
        choices.add(css);

        // Evaluate local name
        String localName = css.getLocalName();
        if (localName != null && localName.length() > 30)
            localName = localName.substring(0, 28) + ">>";

        // Evaluate version
        String version = css.getRepresentsVersion();
        if (version != null && version.length() > 25)
            version = version.substring(0, 23) + ">>";

        // Evaluate tag(s)
        String[] tags = csr[i - 1].getRenderingDetail().getVersionTags().getTag();
        String tag = tags.length > 0 ? tags[0] : "";
        if (tag != null && tag.length() > 15)
            tag = tag.substring(0, 13) + ">>";

        // Output the first line
        f.format(format, new Object[] { nu, localName, version, tag });

        // Output additional tags
        for (int j = 1; j < tags.length; j++) {
            tag = tags[j];
            if (tag != null && tag.length() > 10)
                tag = tag.substring(0, 8) + ">>";
            f.format(format, "", "", "", tag);
        }

        // Output separator
        f.format(format, hSep);
    }
    Util.displayMessage(f.out().toString());
    Util.displayMessage("");
    Util.displayMessage("NOTE: >> indicates column value exceeds the available width.");
}
return choices;
}

/**
 * Display the list of available coding schemes and process the user
 * selection.
 *
 * @return A coding scheme summary corresponding to the user selection; null
 *         if no selection is made or an error occurs.
 */
public CodingSchemeSummary displayAndGetSelection() {
    CodingSchemeSummary css = null;
    try {
        // Display choices ...
        List<CodingSchemeSummary> choices = displayCodingSchemes();

        if (choices.size() > 0) {
            // Process the user input ...
            try {
                Util.displayMessage("Enter the number of the Coding scheme to use, then <Enter> :");
            }
        }
    }
}

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        BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
        int i = new Integer(br.readLine()).intValue();
        if (i > 0 && i <= choices.size())
            css = choices.get(i - 1);
        else
            Util.displayMessage("Entered value is out of range.");
    } catch (NumberFormatException nfe) {
        Util.displayMessage("Entered value must be numeric.");
    } catch (IOException ioe) {
        Util.displayAndLogError("An error occurred while processing the entered value", ioe);
    }
    } else {
        Util.displayMessage("No code systems are available.");
    }
} catch (Exception e) {
    Util.displayAndLogError("An error occurred processing the available code systems", e);
}
return css;
}
}

```