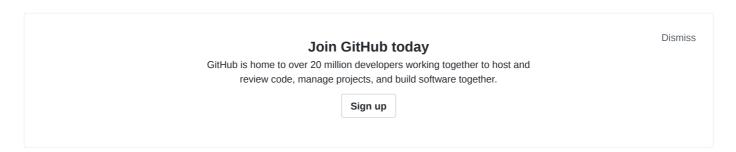
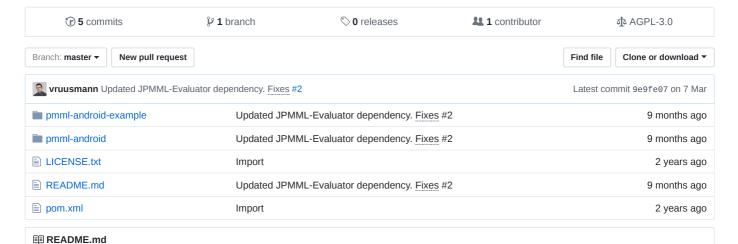
ipmml / jpmml-android



PMML evaluator library for the Android operating system (http://www.android.com/)



JPMML-Android

PMML evaluator library for the Android operating system (http://www.android.com/).

Features

• Full support for PMML specification versions 3.0 through 4.3. The evaluation is handled by the [JPMML-Evaluator] (https://github.com/jpmml/jpmml-evaluator) library.

Prerequisites

• Android 3.0 or newer.

Installation

Enter the project root directory and build using [Apache Maven] (http://maven.apache.org/):

mvn clean install

The build produces two files:

- pmml-android/target/pmml-android-1.0-SNAPSHOT.jar Library JAR file.
- $\bullet \quad \text{pmml-android-example/target/pmml-android-example-1.0-SNAPSHOT.apk} \quad \textbf{-Example App APK file}.$

Usage

Android does not provide its own JAXB runtime, and is generally unsuitable for working with standard JAXB runtimes such as GlassFish Metro or EclipseLink MOXy. Therefore, the org.dmg.pmml.pmml instance has to be obtained by other means.

The suggested workaround is to transmit models using Java Serialization.

Models can be converted from PMML data format to Java Serialization (SER) data format using the JPMML-Model Maven plugin:

```
<plugin>
        <groupId>org.jpmml</groupId>
        <artifactId>pmml-maven-plugin</artifactId>
        <version>${pmml-model.version}</version>
        <executions>
                <execution>
                         <phase>process-resources</phase>
                         <goals>
                                 <goal>ser</goal>
                         </goals>
                         <configuration>
                                 <modelSets>
                                         <modelSet>
                                                 <dir>src/main/pmml</dir>
                                                 <outputDir>target/generated-sources/combined-assets/output
                                         </modelSet>
                                 </modelSets>
                                 <visitorClasses>
                                         <visitorClass>org.jpmml.model.visitors.StringInterner</visitorClass</pre>
                                 </visitorClasses>
                         </configuration>
                </execution>
        </executions>
</plugin>
```

The App can use the org.jpmml.android.EvaluatorUtil#createEvaluator(InputStream) utility method to create a model evaluator instance based on a streamable SER asset or resource:

```
public ModelEvaluator<?> loadSer(String serName) throws Exception {
         AssetManager assetManager = getAssets();

         try(InputStream is = assetManager.open(serName)){
              return org.jpmml.android.EvaluatorUtil.createEvaluator(is);
        }
}
```

Extra caution is required to ensure that the SER producer (ie. the JPMML-Model Maven plugin) and the SER consumer (ie. the JPMML-Android library) are using exactly the same version of the JPMML-Model library at all times.

License

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Additional information

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