20141107 Install Guide - Metadata.API

Overview

This guide will help you get the RTD Metadata.API installed and ready to use.

The Metadata.API defines the CRUD am(create, read, update, delete) operations on metadata objects supported by this system. The metadata objects include Types, Functions, Concepts, Derived Concepts, MessageDefinitions, and Model Definitions. All functions take String values as input in XML or JSON Format and return a JSON string of ApiResult objectd.

Prerequisites:

- Install Scala 2.10.4
- Install the Java Development Kit (JDK 1.7.1 or greater)
- Install joda-convert-1.6.jar into a local directory (example: $HOME/libs). This jar file is needed in the CLASSPATH variable for successful compilation of scala code generated by model compiler.
- The definition of the data models and rule sets used in your business that need to be created.

After you have installed Scala, the JDK, and the RTD engine binary, you can:

- Write your own functions
- Use the JAR to compile those functions

Usage:

Note: these steps were verified only on a Linux(centos 6.5) VM.

1. In the trunk, (github/RTD/trunk) run the following commands:

```
sbt package
sbt
> project MetadataAPI
> assembly
```

2. Update the config file "RTD/trunk/MetadataAPI/src/main/resources/MetadataAPI.properties" to suit your environment.

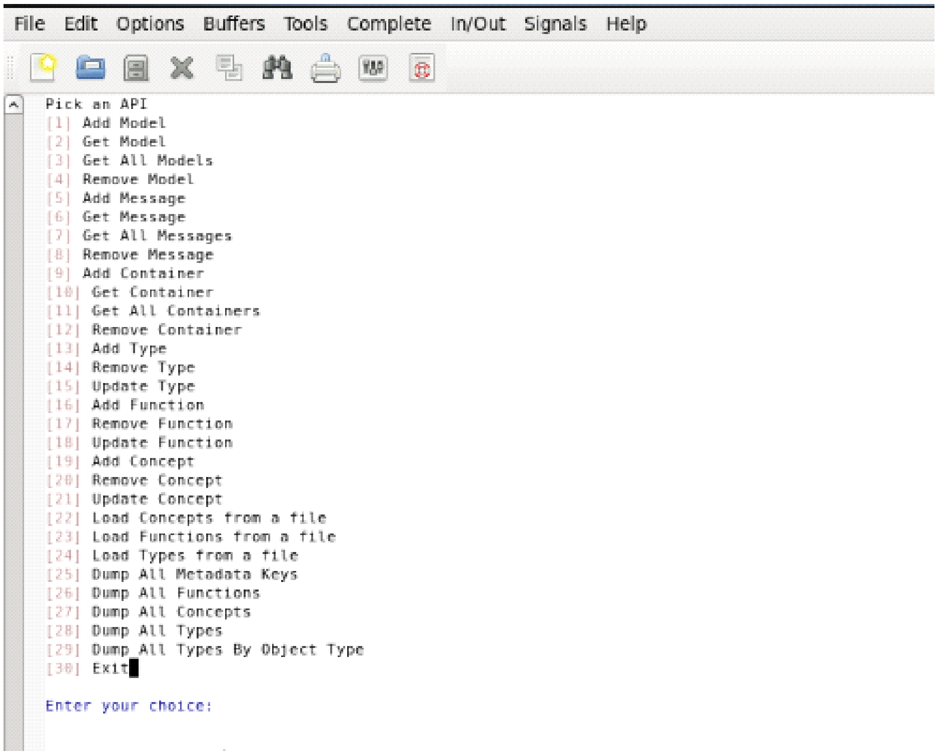
3. Make sure the directory specified by the property "JAR_TARGET_DIR" exists. (This directory is a staging directory to compile scala code generated by model compiler.)

Note: CLASSPATH may contain a lot of unnecessary jar files, but some of them are required to compile scala code generated by model compiler.

4. Start MetadataAPI test harness using fat-jar java -jar: RTD/trunk/MetadataAPI/target/scala-2.10/MetadataAPI-1.0

5. You will see the UI shown here. Enter the number of the item you want to create. It is fairly intuitive from there.

6.



```
Pick an API
[1] Add Model
[2] Get Model
[3] Get All Models
[4] Remove Model
[5] Add Message
[6] Get Message
[7] Get All Messages
[8] Remove Message
[9] Add Container
[10] Get Container
[11] Get All Containers
[12] Remove Container
[13] Add Type
[14] Remove Type
[15] Update Type
[16] Add Function
[17] Remove Function
[18] Update Function
[19] Add Concept
[20] Remove Concept
[21] Update Concept
[22] Load Concepts from a file
[23] Load Functions from a file
[24] Load Types from a file
[25] Dump All Metadata Keys
[26] Dump All Functions
[27] Dump All Concepts
[28] Dump All Types
[29] Dump All Types By Object Type
[30] Exit

Enter your choice:
```