

Selemca Mental world

This software is server software. It consists of several web apps that perform the different functions for Epistemics of the Virtual. The user can access the functionality via a web browser. The server is meant to run in a server environment. It has to have access to a MySQL server, a Tomcat installation and requires a fixed IP or DNS name.

Installation

Requirements:

- MySQL version 5.x. plus administrator rights to create a schema and a user
- JDK 8 or higher
- Apache tomcat 8.x

Installation process:

Intended audience: professional server maintainer. You need access to a server having Java, MySQL and Tomcat installed, and have administrator rights

MySQL

1. create a database schema called 'beliefsystem' with character set: utf8
2. create a user 'selemca' with a password that has full access to this schema

Configuration

1. Make a directory to hold the software's settings file
2. Make an environment variable 'SELEMCA_HOME' pointing to the directory you created. Persist the variable so it is set with every run of Tomcat
Alternatively create the directory /usr/local/selemca which will be used when SELEMCA_HOME is not set.
3. From the installation files copy database.properties, ServerApplicationSettings.properties and wordnet_2_0.rdf to \$SELEMCA_HOME
It is important that the user running tomcat has read access to these files and in case of ServerApplicationSettings.properties also write access! If needed hand over file ownership: `chown tomcat8 *`
4. Edit database.properties, set the password you used for the selemca user in MySQL

Tomcat

1. From the installation files copy BeliefSystem.war, BeliefSystemAdmin.war, MentalWorldAdmin.war and MentalWorldApp.war to the webapp directory
2. Start Tomcat if not already running

Sample data

Add some sample data to the Belief system. The epistemics model is designed to extend on prior knowledge.

It has to have some knowledge, otherwise it is mentally blind (as in it cannot compare what it sees to anything it knows. It needs some basic context)

This sample data is just a starting point. One can later change concepts and relations, or upload a whole new belief system to replace this one.

1. Open a browser and go to: `http://<server>:<port>/BeliefSystemAdmin/`
2. Select tab 'Import/Export'
3. Choose file 'beliefsystem.zip' from the installation files
4. Click 'Start upload'
5. The 'Concepts' and 'Associations' tabs should show the sample data.

Components

The Selemca Epistemics of the Virtual software consists of the following components:

BeliefSystem: Holds the belief system. Can be queried using REST calls. Url:

`http://<server>:<port>/BeliefSystem`

BeliefSystemAdmin: Administration of the belief system. This is a web application to inspect and change concepts and relations in the belief system used by the mental world application. Url:

`http://<server>:<port>/BeliefSystemAdmin`

MentalWorldAdmin: Administration of the mental world application. This is a web application to change settings that direct the behaviour of the Epistemics of the Virtual application. Url:

`http://<server>:<port>/MentalWorldAdmin`

MentalWorldApp: The Epistemics of the Virtual user application. Use this to offer observations to the mental world and see how it responds to this observation. Url:

`http://<server>:<port>/MentalWorldApp`