

LexEVS Development Setup

This document describes the required software and tools used for setting up and developing LexEVS.

Required Software

Below are the required software and tools necessary to build/compile/develop LexEVS.

- Java JDK 8
- Apache Ant 1.9.3
- Apache Maven 3.3.9 (or greater)
- Git 2.9.2 (or greater)

Database

MySQL is used for LexEVS at NCI in production. This is what we use in development as well.

- MySQL 5.6.x

Additionally, the following lines need to be added to the my.cnf file:

- innodb_file_format=Barracuda
- innodb_file_per_table=true
- innodb_large_prefix=true

Eclipse

We are using Eclipse for our IDE. The instructions below are for setting up Eclipse. IntelliJ can also be used, if that is your preferred IDE.

- Download/install "Eclipse IDE for Java Developers". The latest version that has been used in development is [Eclipse 2019-03 \(4.11\)](#).

Setup

Get the LexEVS project

- Use git to clone the LexEVS project to your local system.
- LexEVS is located here:
 - <https://github.com/lexevs/lexevs>
- Checkout the latest branch. Currently it is "v6.5.3".

Build LexEVS

cd to the "lexevs" directory

- Build the project by running the command "ant"

This will download all the dependencies and build the LexEVS project.

Setup LexEVS in Eclipse

Install the ivy plugin for Eclipse

- Help -> Install New Software
- Add new website: <http://www.apache.org/dist/ant/ivyde/updatesite>
- This will search and return:
 - Apache Ivy library
 - Apache IvyDE Eclipse plugins
- Select both options
- Install and restart Eclipse when prompted

Update the Eclipse Ivy settings

Select Eclipse>Preferences

- Select IvySettings
 - Set the "Ivy settings path:" \${workspace_loc:lbPackager/ivysettings.xml}

Add the LexEVS Project

- Select File->Import...->Git->Projects from Git
 - Select Next...

- Select Existing local repository
 - Select Next...
- Select Add...
 - Select the LexEVS git project that was previously built.
- Select Next...
 - Select "Import Existing Eclipse Projects"
- Select Finish

Once the project is imported, select all of the project folders

- Right click and select Ivy->Resolve

Build LexEVS from Eclipse

You can now build the project in Eclipse.

- In the Project Explorer, right click on lbPackager
- Select Run As->Ant build