

Developers Guide for networkSimDB

Getting the source

Source code is available via sourceforge:

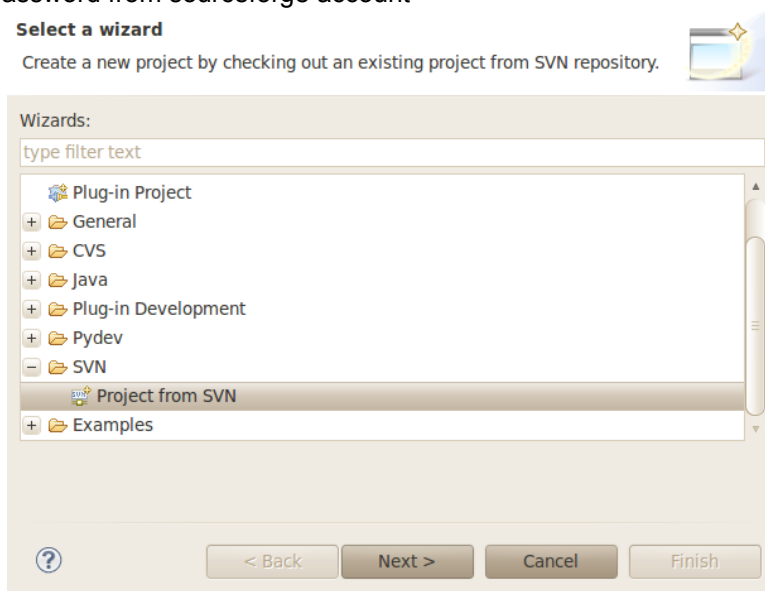
<http://networksimdb.svn.sourceforge.net/viewvc/networksimdb/>

and can be checked out via

svn co <https://networksimdb.svn.sourceforge.net/svnroot/networksimdb> networksimdb

Setting up Eclipse with SVN source

- checkout the SVN as new project (file → new project → SVN → Project from SVN)
 - URL: <https://networksimdb.svn.sourceforge.net/svnroot/networksimdb>
 - User and password from sourceforge account



Directory structure

```
svnroot
  bin
  src
    nsdb
      cytoscape
      db (database content)
      hibernate (hibernate entity and xml definitions)
      test (test data for the source code)
      web (web interface content)
    db
    doc
    documentation
    examples
    lib (
```

Setting up the database

- For testing a local postgresQL database system (<http://www.postgresql.org/>) has to be used.. Postgres has to be installed and a database 'netsimdb_test' with user 'test_user' should be generated. Postgres should run on port 5432 on localhost. These settings can be changed in the 'hibernate.cfg.xml'
<property name="connection.url">jdbc:postgresql://localhost:5432/netsimdb_test</property>
<property name="connection.username">test_user</property>
<property name="connection.password">1234</property>

Setting the buildpath in eclipse

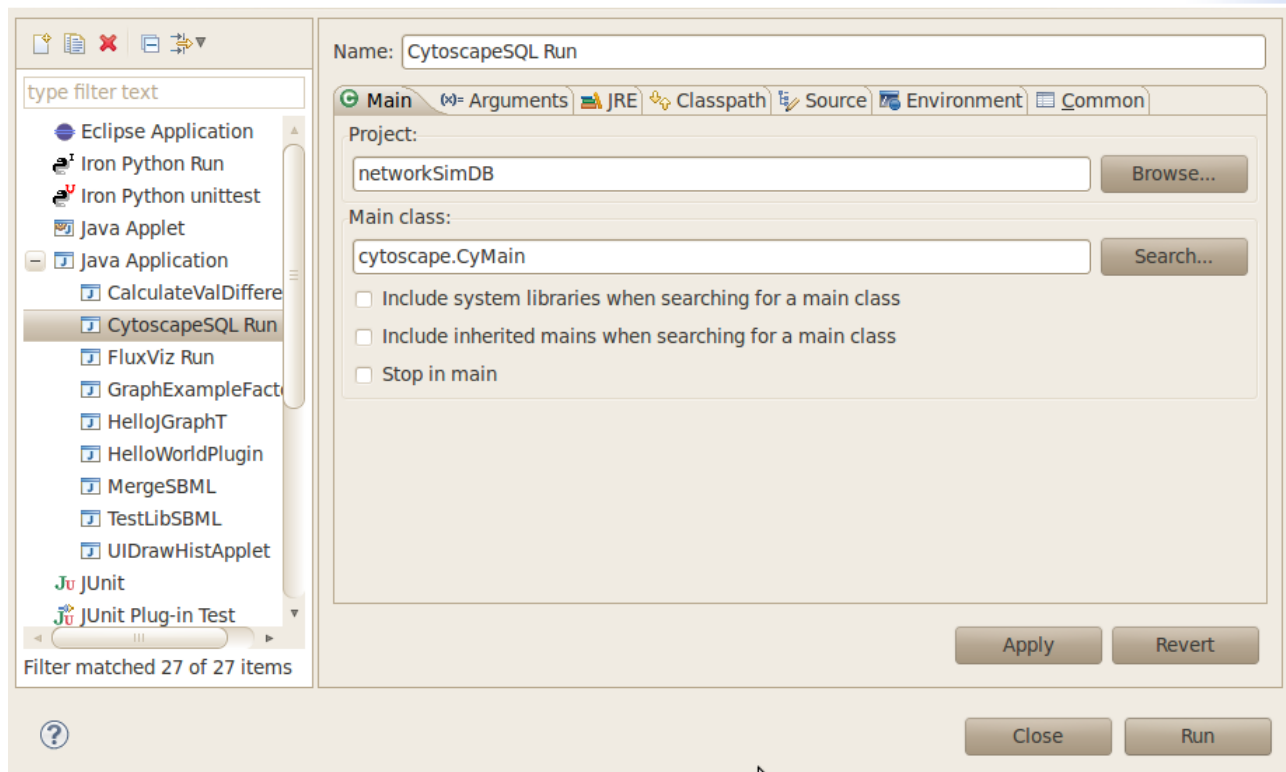
- include all jars in lib into the buildpath
- add all jar files in folder lib to the buildpath. If additional jars are needed, these jars should also be copied to the lib folder.

Eclipse Cytoscape integration

- install Cytoscape for your platform
- copy 'networkSimDBvx.xx.jar' from 'lib/cytoscape/-plugin' into the Cytoscape plugin folder.
- Select CytoscapeSQL.java from nsdb.cytoscape and create application runner (Run → Run configurations)
- Create new run configuration: Main class: cytoscape.CyMain; Name CytoscapeSQL Run

Create, manage, and run configurations

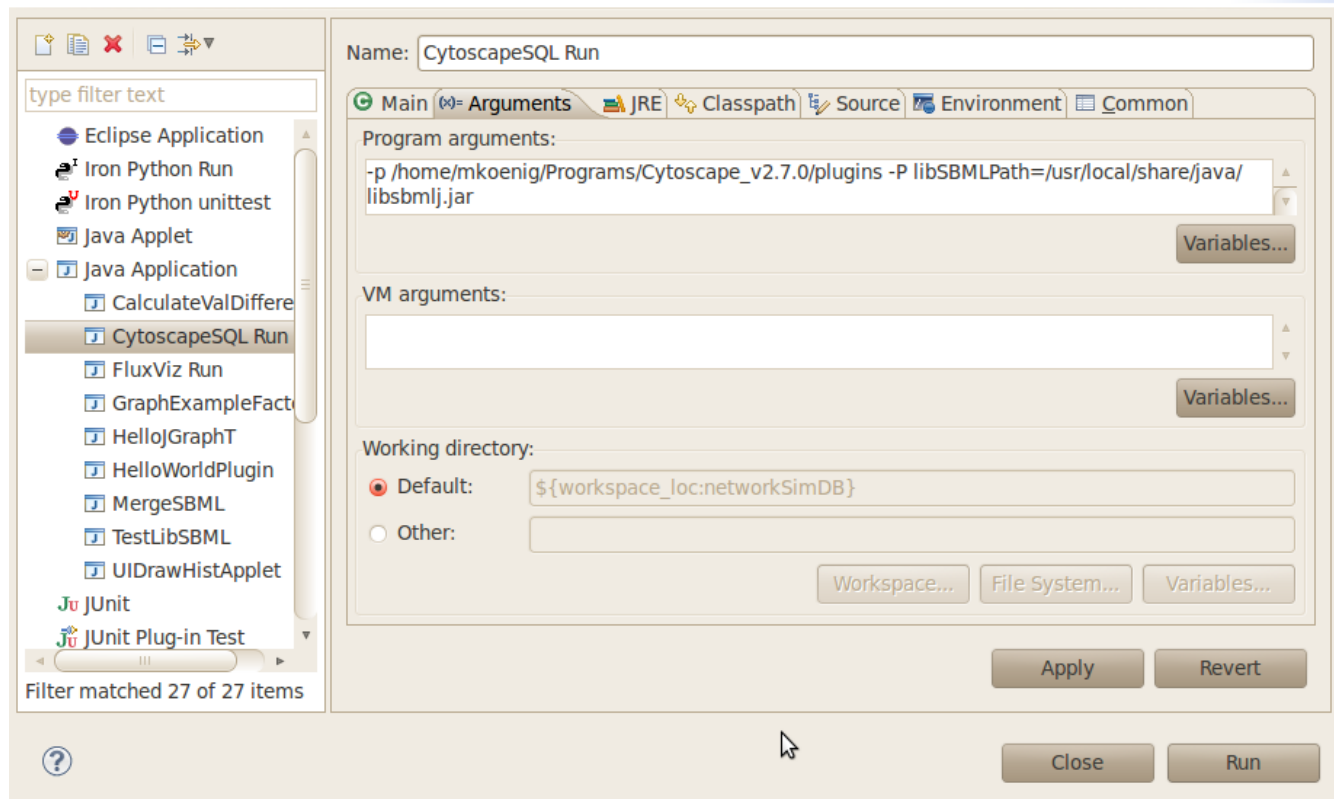
Run a Java application



- arguments: -p /home/mkoenig/Programs/Cytoscape_v2.7.0/plugins -P libSBMLPath=/usr/local/share/java/libsbmlj.jar (replace with installation directory to Cytoscape plugin directory of installation)

Create, manage, and run configurations

Run a Java application



- run starts Cytoscape (changes in source code are reflected in the interface)