# SE4OJS User documentation

### Overview

* The application consists of several modules, rdfizing different aspects of an xml file in JATS-format:
  + “Client” module:

### Project Setup

* Currently, no user interface or packaged binary is offered for download – the sources need to be compiled and the program must run from either command-line or an IDE.
* The project consists of several maven modules -> make sure maven is installed on your machine to compile the projects
* SE4OJS requires Java7

### Running SE4OJS

* The entry point, i.e. the main method to run the application is se4ojs\sources\client\src\main\java\org\zpid\se4ojs\app\SE4OJSRdfizer.java
* Possible arguments are:

|  |  |  |
| --- | --- | --- |
| “-in” “path/to/dir” | Input directory containing the JATS-xml Files (Version 1.0). | mandatory |
| “-out” “path/to/dir” | Output directory for the generated rdf-files | mandatory |
| “-rdf” | Rdfize metadata. Produces an rdf file in the output dir containing article metadata representations. | optional |
| “-structure” | Rdfize the text structure. Produces an rdf file in the output dir containing article metadata representations, in text citations and citation frequency informationi for references. | (Optional)  Mandatory, if “-annotationNCBO” or “-annotaionUMLS” is used |
| “-annotationNcbo” |  | Optional; must be used in conjunction with “-structure” |
| “-annotationUMLS” | MetaMap must be set up and | Optional; must be used in conjunction with “-structure” |

* Currently, content annotation is dependent of text structure rdfization -> if you want to annotate the textual content, you also need to specify text-structure rdfization
* Sample run configuration in Eclipse (includes all possible rdfization steps. If you would like to use content annotation, please read the section on content annotation before running the program

### RDFization

* Rdfization of article metadata (by the Jats2Spar module) is independent from text-structure rdfization or content annotation.

### Content Annotation

* MetaMap must be installed and the metaMap server and tokenizer must be up and running.

### Configuration

* In the client module, properties can be set: /client/src/main/resources/config.properties. This includes
  + Base URI for the generated RDF resources (e.g.” <http://www.zpid.org/resource>”)
  + Your NCBO API-key for access to the NCBO Annotator
  + Lists of ontologies for each annotator service to use for textual content annotation
  + Article language: Articles in other languages are ignored and not rdfized
* If UMLS Annotator is used, MetaMap must be installed and running

### Running the Program

* The main class to run the application is SE4OJSRdfizer.
  + The following example configuration steps refer to the Eclipse IDE (Eclipse Luna)
    - Import the maven projects into Eclipse
      * (1) run mvn eclipse:eclipse to generate the .project information
      * 2) File -> Import -> Existing Maven Projects
    - Create a Run Configuration:



