

Programming Lab III, WS 2016/2017

Handout 5

Dr. Marc Zimmermann, Jens Dörpinghaus
2016-11-15

Fifth task – Writing a failsafe Sequence Alignment Writer, perform further unit tests

Has to be completed finally at 2016-12-06, 23:59pm.

The next task will be to write the results of the sequence alignment into a file. Therefore, you have to create a writer (or **Consumer**, as it is called in UIMA).

Here's the list of topics you have to complete:

- Create a writer (**Consumer**) which writes the resulting alignments into a text file.
 - Checkout the consumer artifact from maven
 - Read from the created view of your annotator from task 4
 - Write a concept file of how an alignment can be represented in HTML.
 - Write the sequence alignment into a HTML file in the Stockholm format used by PFAM (c.f. http://en.wikipedia.org/wiki/Stockholm_format)
 - Implement the corresponding unit tests concerning the output file format.
 - Upload an example output file into the SVN – it is anyhow needed for the unit test.
 - Run the test using the Eclipse plugin for JUnit (run as → Junit test), switch to the *JUnit* view and make a screenshot of the successful test run – to be committed in the svn in src/test/resources.
 - Make a screenshot of a browser displaying the output HTML file – to be committed in the svn in src/test/resources.

We will checkout your code and run the unit tests - all of them should be green.

Please make sure that you commit code that is either self-explaining or has comments to explain your code.

Good luck and have fun!