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Modernisation of Desktop Java NooJ Version: User Interface and Dictionaries

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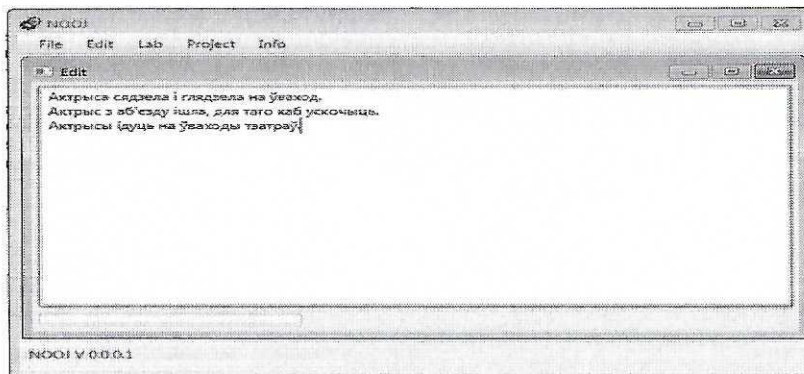
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In the context of the rapid development of information technology, the question arises of coexisting, updating and upgrading the software developed earlier. The software is designed to perform a set of functions specific to its design. However, over time, conditions, as well as tasks of functioning, can change. This leads to the decision to replace or upgrade the software. Software upgrades are aimed, as a rule, at expanding the supported functionality, adapting it to the constantly changing operating conditions and tasks assigned to it.

NooJ is a development environment used to construct large-coverage formalized descriptions of natural languages and apply them to large corpora in real time. For the reasons listed above, the question arises of how to modernize the NooJ system [1].

In the paper, we will show new implementation of a way to lookup in a dictionary throw using hashtables for improving performance and simplify the engine structure. We had present the first version of this logic in May 2017 now we have present the second version engine without issues and bugs[2]. Also, we present the user interface, that has been redesigned using the JavaFX framework in the direction of greater customization. We will show what we can do with the help of a new interface.



After the user interface is finished, we will begin to integrate the user interface and new dictionary engine. After the integration, we will debug and test the new system.

References

1. Max Silberztein. 2014. Nooj Manual. <http://www.nooj4nlp.net>. Date of access : 20.12.2017.
2. Hetsevich Y., Kryvaltsevich A., Kazloŭskaja N., Drahun A., Zianoŭka J., Ščarbakou A. (2018) Sentiment Analysis Algorithms for the Belarusian NooJ Module in Touristic Sphere. In: Mbarki S., Mourchid M., Silberztein M. (eds) Formalizing Natural Languages with NooJ and Its Natural Language Processing Applications. NooJ 2017.