

This master thesis covers implementation of a suitable algorithm of transaction processing existing in DBMS environment into the fulltext search engine Egothor. The thesis consists of analysis of functionality of the Egothor system, of the processes being executed during creation and management of the index and analysis of the original source code of the search engine project. Description of the existing algorithms of transaction processing follows along with their evaluation and comparison. Evaluation of the described algorithms is primarily concentrated on the environment of the web search engine Egothor and the most suitable method is chosen for further implementation. As a part of the thesis the chosen algorithm has been fully implemented along with some other project functional requirements. Description of the final implementation closes this master thesis.