This Bachelor's Diploma Thesis deals with implementation of a suitable algorithm of duplicate results' reduction into the full-text search engine Egothor. The thesis includes the functionality analysis of Egothor engine as well as the processes occurring during the creation and compilation of an index. The main focus is on the description of given algorithms of duplicate results' reduction followed by their evaluation and comparison. The evaluation of described algorithms is based on the web search engine system Egothor environment, where the most suitable one for the implementation is chosen. More speciffically, for the purpose of this thesis a completely implemented algorithm with further functional requirements is used. The conclusion consists of the description of the final implementation.