

The suggester functionality is an important feature of modern search engines. The aim of the thesis is to implement it for the OpenGrok project. The OpenGrok search engine is based on Apache Lucene and supports its query syntax. Presented suggester implementation supports this query syntax and provides suggestions not only for prefixes but also for wildcards, regular expressions, or phrases. The implementation also takes into account the possibility of grouping queries. That means, if one query is already specified and user is typing another query, then the first query will restrict the suggestions for the second query. The promotion of specific suggestions is based on the underlying Lucene index data structure and previous searches of the users.