Nowadays, it is necessary to process huge amount of information what is reflected by actual trends in informatics. The objective of the thesis is to give the theoretical analysis and implementation of processing and searching tool which allows the user to go through a huge number of unstructured document collections. Such system is called the information retrieval system. This work is an alternative to already existed system Egothor, which is the implementation of boolean model. Because of the possibility of comparing the results from retrieval system models, the implemented system is established on a competitive vector model. In this work is also created one modular system which allows comparing and processing the results from any independent information retrieval systems to one integrated review. This system is called the optimal retrieval system. The precision and recall – the subjective qualitative parameters of system are growing up. The optimal retrieval system was tested in configuration with two underlying systems what practically approved it's advantages.