# Abstract

Information retrieval systems is the study of pecarian information on the collection of documents, search the document itself, the search metadata to the document. Information retrieval systems are used to reduce the information that is too much so it is difficult to manage. With a system of information retrieval information search is expected to be done effectively and provide accurate results that can find relevant data.

Binary Independence Retrieval is combined with a probabilistic model of binary. If another model calculated the number of times a term, then the BIR model this value is binary, that is there or not. Probabilistic part of the model have on the calculation of similarity of a document with the query. This model assumes that the word appears in a document not related to each other.

Okapi BM25 model was developed based on the basic probabilistic model that ranks documents in decreasing order of value relevance of a document to the information required. Okapi BM25 rank documents based on probability and using the term frequency to rank similarity.

**Keywords** : Information Retrieval System, Binary Independence Retrieval, Okapi BM2.