

Abstract

Information Retrieval has evolved with many methods that can produce high relevance. To get a high relevance value required a good method also tested. This final project performs Latent Semantic Analysis analysis using Gram Schmidt algorithm, then measures the resemblance of document to query using cosine similarity and parameter of recall and precision test to proven Latent Semantic Analysis in finding relevant document and doing process calculation of document search process.

Test results from this final project shows that the latent semantic analysis using Gram Schmidt algorithm proved to be able to find the relevant documents then have the value of recall and precision. The accuracy of the Latent Semantic Analysis system is quite good and also gets a quick time process in searching for relevant documents.

Keywords: *Latent Semantic analysis (LSA), Gram Schmidt algoritm, Recall, Precision.*