

## **Abstract**

Search engines usage in finding relevant documents to user's Information Needs (IN) often face several obstacles. The large numbers of documents in the web and user's difficulties in determining the appropriate query to retrieve relevant documents are two of the obstacles. In this Final Project, analysis and implementation of a search technique using meta search engine which accepts long query input is done. The uses of long query make users easier to express their IN. This is because a long query resembles natural language. The use of long queries increased the probability to retrieve all relevant documents to the specific IN. Long Query Meta Search Engine treats the long query input with certain method to build all sub-queries possibilities and sends them to a search engine. Usability of a search engine before and after the meta search engine implementation is analyzed. The analysis shows that search engine usability is increased after the meta search engine implementation.

**Keywords:** Information Needs (IN), query, long query, search engine, meta search engine, usability.