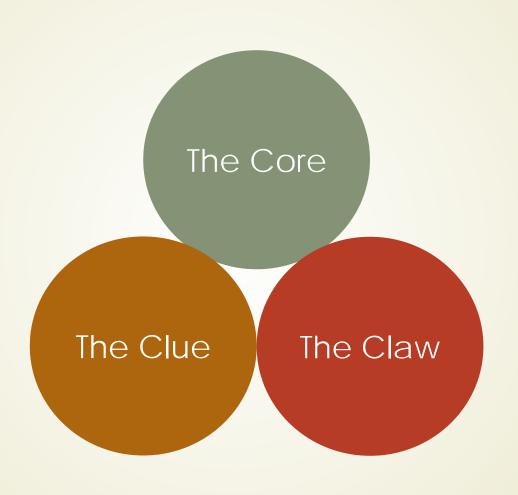
# Expert Search The Clue

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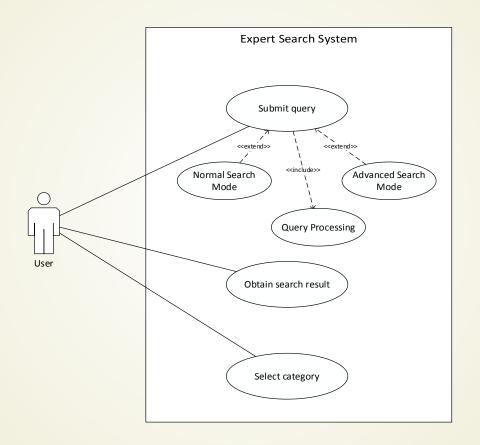
## Expert Search



### What is The Clue?

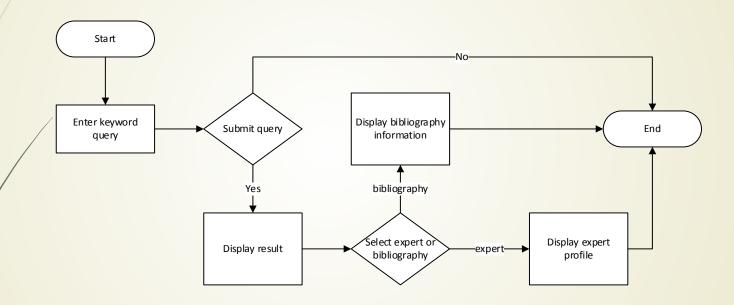
- User interaction and visualization tool of Expert Search
- Manage all the query processing in Expert Search
- Guide and assist user search for expert and relevant bibliography

### Use Case



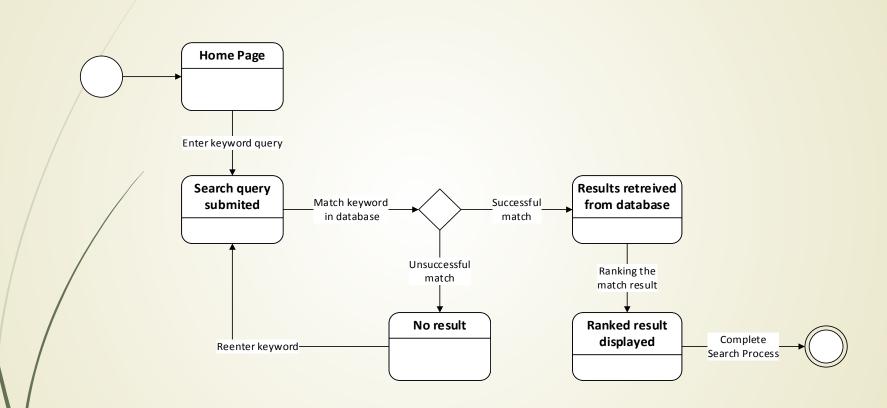
The Use Case diagram of "The Clue" Expert Search System

### Flow Chart



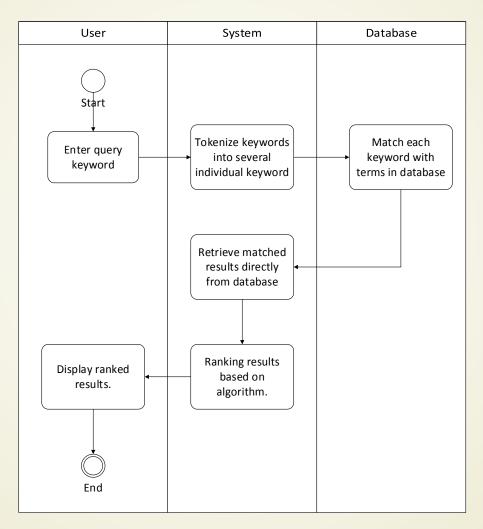
The Flow Chart of query processing in Expert Search System

## State Diagram



The State Diagram of the query processing

## **Activity Diagram**



The Activity Diagram of query processing in Expert System.

## Function, Feature & Algorithm

## Keyword Tokenization's and Matching Function

#### **Keyword tokenization**

 A function to break down keywords query into a set of keywords

#### **Matching Function**

- Tokenized keywords match with a list of term's dictionary in database
- Select candidates which related to the keywords.

## Ranking Algorithm

 Improve the accuracy of searching method by proposing an algorithm to process and rank the result

#### Factors affecting the ranking results

- Occurrence of keyword in title
- Occurrence of keyword in abstract
- Age of the bibliography
- Conference place

#### Implicit feedback (User Behavior Feedback)

Search Result Relevant Feedback

## Search Result Relevant Feedback (Relevance feedback)

 To improve the ranking algorithm of search keyword in term of user behavior feedback

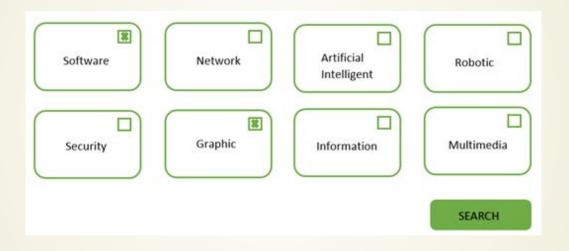
#### Step

- 1. User enter a keyword query. E.g. software
- 2. Display a list of results.
- 3. User click one of the result (bibliography).
- 4. A function is triggered to increase the relevance score between selected result (bibliography) and keyword query in database.

## **Query Log**

- QueryTrackerFunction()
- Track the query keywords inputted by user each time and store to database
- Analysis the frequency of keyword during query
- Use for most frequent search keywords chart
- To help admin improve the content/ bibliography in database

## Navigation Optimization - Keywords Categories



Multi select function in Keyword Categories

## Advanced Search Query

- Narrow down the search result
- Improve accuracy of the results using several parameter

Advanced Search		
Title:		
Abstract:		
Author:		
Date Range:	to	
	Submit	all

Q & A