Project Proposal

Title: Identifying keywords in legal articles using ML techniques

Aim of the proposed project:

The aim of this project is to identify related keywords in legal articles, even though they are not directly mentioned in the article. The system should be able to understand the context and identify the related keywords and search articles from the database when the key words are given.

Background/Short Description of the project:

The client needs a system to store legal documents and search them using keywords.Therefore,it is needed to build a web based system to store those legal documents and facilitate accurate and efficient searching when they are searched by keywords or combination of keywords.Moreover,system should have a mechanism to automatically identify key words and categorize them according to those keywords when a document is uploaded.

The system should be a secure system and only the authorised persons can login and upload the documents and search the documents.Only the admins can upload documents ,both admins and users can search the documents.

Expected Outcomes (In point form state what is planned to achieve):

For Admin :-

- Can upload documents (document and keywords in our phase1, in phase2 machine will choose keywords and admin may have to verify then)
- Can update a particular document
- Can delete document
- Can view documents, list of all documents, search by keywords and see the list

For clients (readers):-

- Can search documents using keyword(as single keyword/ phrases), after the search the related document list will be displayed, also the documents that cited the related documents should be given as a separate list
- Need to create an account and pay, or login with existing account to view documents

References

- https://www.lawnet.gov.lk
- Keyword Extraction Using Support Vector Machine Kuo Zhang, Hui Xu, Jie Tang, and Juanzi Li Department of Computer Science and Technology, Tsinghua University Beijing, P.R.China, 100084
- Method, system and apparatus for automatic keyword extraction ,InventorAndras CsomaiRada MihalceaCurrent Assignee University of North Texas System University of North Texas

Peer Review

(Must evaluate the proposal providing suggestions for improvement)