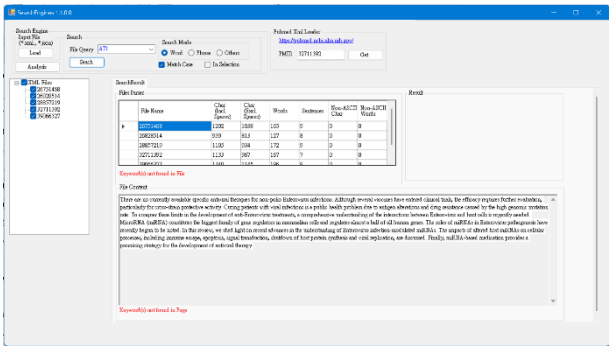
Artificial Intelligence Information Retrieval(P76I900) - Homework #1 - P77131061 – 黃偉凱 (Huang, Wei-Kai)



My Search Engine Application features

Application use GitHub mange

https://github.com/rainsman-wk/ncku-113-P76I900

This Homework Application Version : **V1.1** for demo in class

- Project Create by C# Windows Form (.Net Framework v4.8)
- Use MVP (**Model-View-Presenter**) Architecture design
- Simple View Explanation: **[MainForm]** / **[TopView]** / [**FileListView]** / **[ResultView]**
- All views as connect to [**ToolModel]** to do data exchange and trigger via **Event.**
- **File Paring** :Load feature in (*.xml)* with **xml element** search in <Abstract> and <AbstractText>
- **File Analyze** to List<string> of [Content], [Word] and [Sentence]
    - **The number of feature use normal C# method to get counts (Incl. and excl. space)**
    - Non-Ascii count get by "[^\u0000-\u007F]" and "\b\w*" and "\w*\b"
- Each Load file store input data for view text search and save in class variants first.
- The Search feature including different search mode , the idea come from tool "Notepad++"
    - Search can provide in **Full Text Search** and **Selected Text Search** for each files
    - Search mode including Word(split by space) and search on **[Word List]**
    - Phrase search as same idea but search on **[Sentence List]**
    - Others search as search on **Regular expression** by **Regular expression**
- **The result have two block File Result** and **Content Result(Full Text)**
    - Files result can display all file analyze value and search result in remind file
    - Content Result can display all keywords and highlighted and give result counts

What I learn for #1 Home word:

Xml format , Regular expression and how to correctly use C# Eevert interface implementation.

What I plan to do as

Homework #1 plus to give two view and search including words frequently calculation