一張含有 文字, 電子產品, 螢幕擷取畫面, 軟體 的圖片

自動產生的描述**Artificial Intelligence Information Retrieval(P76I900) - Homework #1 Plus - 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 : **V1.2** 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 features 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 is new in 2nd Homework #1 (Plus)  
-** More pop-up window feature for xml  
- Add File information from Table to Text List (also for pop-up windows)  
- Milit-Search in new windows and highlight  
- New feature to search file keywords (Word Frequency)  
- Use StopWord to get correct keywords for loading files  
- Top 20 Word frequency information for loading file  
- Change all search feature by regex  
**Plan to do (or extend feature for Homework#2)  
-** Save to Database (No which format have to use)  
- Study method for Stemming  
🡺 Could use PorterStemmer to fix keyword issue (eq. mutations/mutation)