

Keyword Emotion Analysis

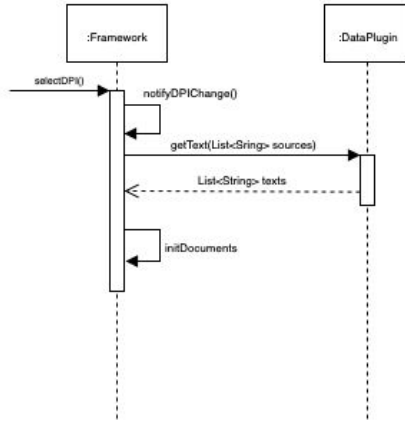
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Overview

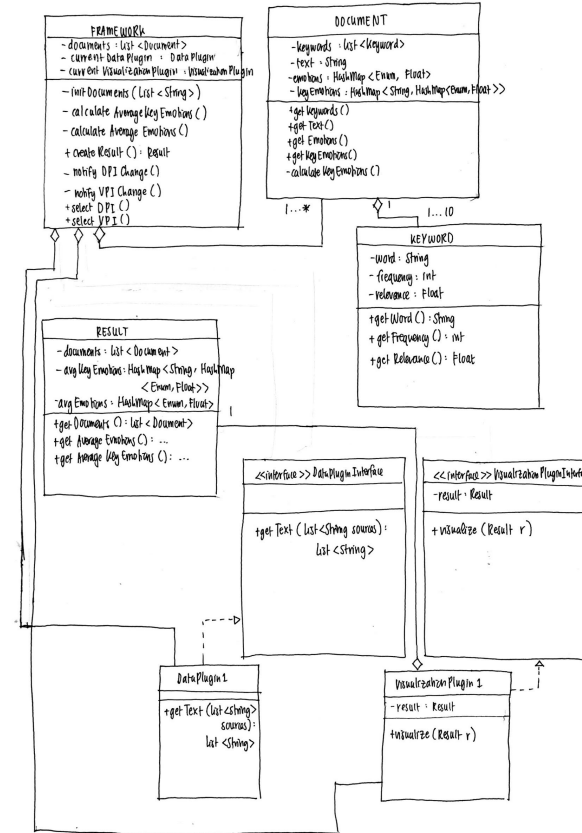
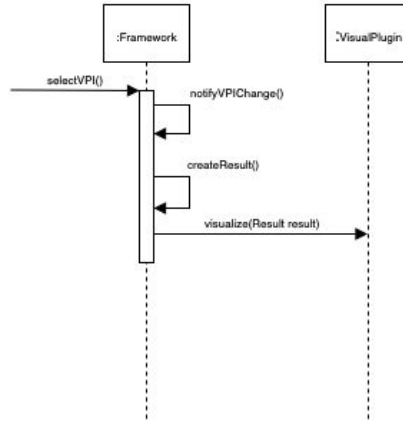
- Given documents represented by strings of text
- The framework analyzes each document's keywords and emotions using IBM Watson Natural Language API
- Gets most common keywords across all documents and maps those keywords to the percentages of each emotion

UML Diagrams

Interaction With Data Plugin



Interaction With Visual Plugin



Project Structure

- framework
 - core
 - *Framework.java*
 - *FrameworkImpl.java*
 - *Document.java*
 - *Emotion.java*
 - *ResultChangeListener.java*
 - *DataPlugin.java*
 - *DisplayPlugin.java*
 - gui
 - *FrameworkGui.java*
- displayPlugin
 - *DisplayPlugin1.java*
- dataPlugin

Flexibility Trade-Offs

- Assume that documents contain similar keywords
- Data plugins designed to draw from variety of sources
- Exposed document class for more flexible display plugins
- Limit emotion analysis to top ten keywords