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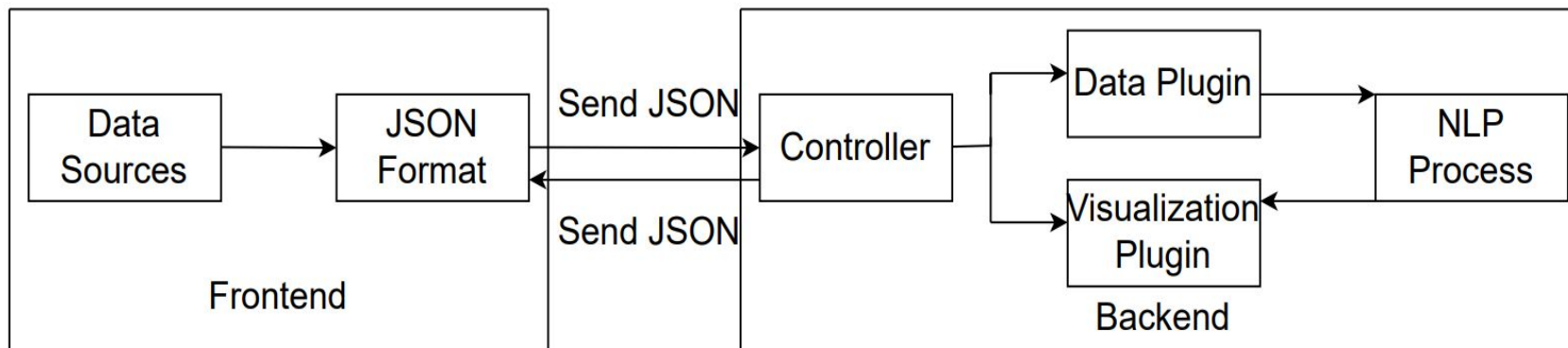# Text Sentiment Analysis Framework

Team: YouShallPass
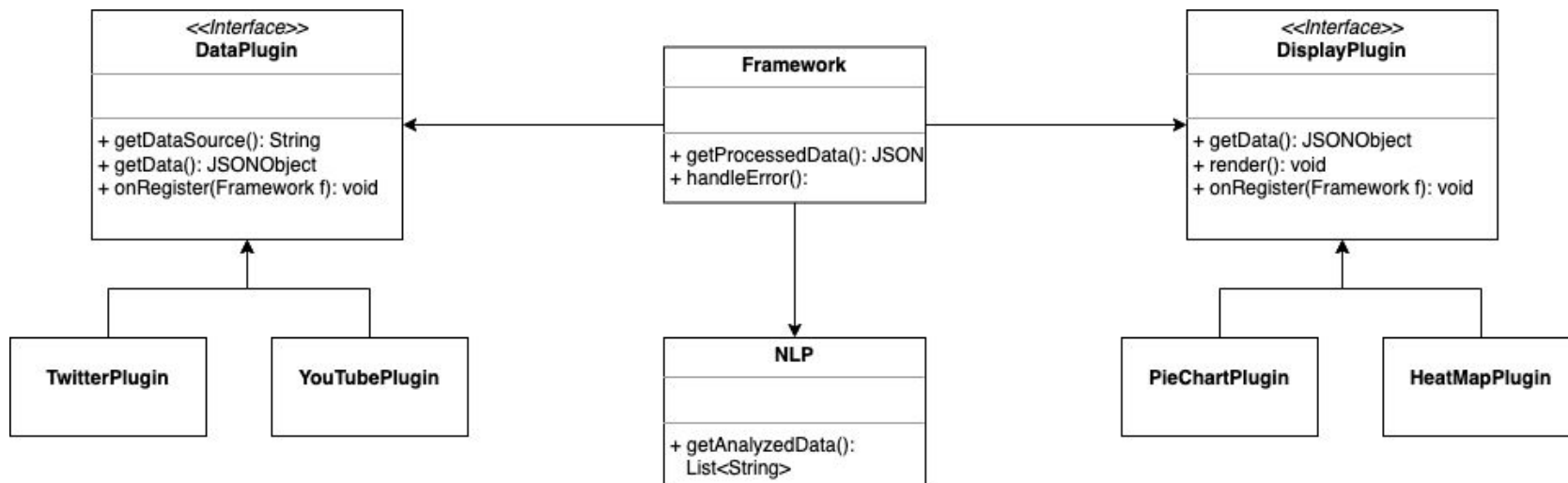Team members: Junyi Lu, Yujia Wang

Domain

- A framework performs sentiment analysis (how positive, negative, or neutral the tone of the text is) on different texts.

- Use Google's Natural Language API for sentiment analysis.

- Texts have different sources (using data plugins).

- Show analysis results in different ways (using visualization plugins).

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Generality

The framework should act as a controller.

Reuse

- Sentiment analysis
- Existing visualizations when adding new data plugin
- Existing data sources when providing new display plugin

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Plugin Interfaces

Data Plugins

- Twitter API
  - take in generic tweets or a user's Twitter messages by providing username

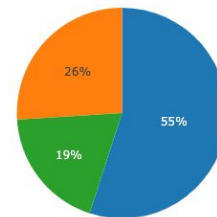- YouTube Data API
  - take in comments from different videos

Display Plugins

- Plotly Graphing Libraries
  - Pie chart

  - Heat map