**Text Summarizer GUI**

**Introduction**

The Text Summarizer GUI application is a tool designed to simplify the process of summarizing and paraphrasing text. It offers a user-friendly interface that allows users to input text, choose from various summarization algorithms, and customize the summary length. Additionally, the application provides features such as plagiarism checking and text paraphrasing, making it a comprehensive tool for text analysis and summarization.

**Features**

1. **Summarization:** Utilizes advanced algorithms such as Latent Semantic Analysis (LSA), LexRank, TextRank, Luhn Summarizer, and Edmundson Summarizer to generate summaries.
2. **Customization:** Allows users to specify the number of sentences in the summary, providing flexibility in the level of detail.
3. **Plagiarism Checking:** Integrates with a sample plagiarism checker API to detect potential plagiarism in the input text.
4. **Text Paraphrasing:** Offers a simple paraphrasing function to rephrase the summarized text.
5. **User-Friendly Interface:** Provides a clean and intuitive graphical interface for ease of use.
6. **Word Count Display:** Shows the word count of the input text to provide additional context.
7. **Full-Screen Mode:** Enables a full-screen view of the application for a distraction-free experience.

**Getting Started**

1. **Installation:** Ensure you have Python installed on your system. Install the required dependencies using `pip`.
2. **Running the Application:** Execute the Python script `text\_summarizer\_gui.py` to launch the application.
3. **Usage:** Enter the text you want to summarize, choose a summarization algorithm, specify the sentence count, and click the "Summarize" button.

**Supported Summarizers**

1. **Latent Semantic Analysis (LSA):** A mathematical technique for extracting contextual information from a collection of texts.
2. **LexRank:** A graph-based algorithm that computes the centrality of sentences.
3. **TextRank:** Another graph-based algorithm that ranks sentences based on their similarity to other sentences.
4. **Luhn Summarizer:** A simple technique that selects sentences containing the most frequent words as keywords.
5. **Edmundson Summarizer:** Considers various features such as location, cue words, and sentence length to score and select sentences.

**Conclusion**

The Text Summarizer GUI application offers a powerful yet easy-to-use solution for summarizing and analyzing text. With its diverse range of summarization algorithms and additional features, it provides users with a comprehensive tool for text summarization, plagiarism checking, and paraphrasing.