Text to Speech Reader for Browser

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**Steps to Run the Project**

1. **Install Required Libraries**: Open the command prompt in the folder containing the project and execute:
2. pip install pyperclip keyboard gtts
3. **Run the Script**: Double-click the run.bat file to execute the script.
4. **Select and Copy Text**: Open your browser, select the text you want to read, and press Ctrl+C to copy it to the clipboard.
5. **Trigger the Reader**: Press the hotkey Ctrl+Alt+P to convert the selected text to speech. The audio will play automatically.
6. **Exit the Application**: To stop the script, press the Esc key.

**Flow of Code and Importance of the App**

This project uses the gTTS (Google Text-to-Speech) engine to read selected text aloud. The app continuously runs in the background, listens for a predefined hotkey, retrieves the text from the clipboard, converts it to audio, and plays it for the user.

The app can be used for various applications, such as:

* Reading articles, documents, or emails aloud.
* Enhancing accessibility for visually impaired users.
* Multitasking by listening to content while performing other tasks.

**Key Features**

* Hotkey-based trigger (Ctrl+Alt+P) for quick and convenient access.
* Automatic detection and reading of clipboard content.
* Integration with gTTS for converting text to speech in multiple languages.

**gTTS Engine: Limitations and Basics**

* **Character Limit**: The gTTS engine processes approximately 1,000-2,000 characters per request. For longer text, the script can be extended to split the text into smaller chunks.
* **Language Support**: gTTS supports multiple languages, providing versatility for various users and applications.
* **Use Cases**: This engine is suitable for:
  + Reading online content aloud.
  + Voice notifications or announcements.
  + Accessibility tools for people with visual impairments.

This project simplifies text-to-speech conversion, making it a valuable tool for accessibility and productivity in daily tasks.