Documentation: slidegen_gui_tkinter.py

Overview:
This script implements a desktop GUI-based presentation generator using Tkinter and python-pptx. It allows
users to input a topic manually or upload a .csv/.txt batch file. The script uses the OpenAl API to generate
slide-wise content and optional DALL-E-style images per slide. It generates a .pptx file downloadable locally.
Logs are visible in the interface for transparency.
Key Features:
Tkinter GUI: User-friendly interface for input and feedback.
2. Topic Input: Direct topic entry or batch file upload.
3. Image Generation: Optionally generate DALL-E-style images per slide.
4. Downloadable Output: Saves .pptx presentation to local directory.
5. Live Logging: Real-time display of logs in the app interface.
How It Works:
1. Input Handling:
- Single topic via entry box.
- Batch topics via .csv/.txt.
2. GPT Call:
- Uses OpenAI's `gpt-4` to generate slide-wise content.

3. Parsing and PPTX Creation:
- The GPT output is parsed to extract slide titles and bullet points.
- `python-pptx` is used to create the presentation.
- Images are added using `openai.Image.create()` and `requests.get()`.
4. Logging:
- Progress and errors are logged to a text widget in the GUI.
Installation & Local Use:
Clone the repository or copy the file locally.
2. Install dependencies:
pip install openai python-pptx pillow requests
3. Run the script:
python slidegen_gui_tkinter.py
4. Enter topic or upload file and click "Generate".
5. Output .pptx will be saved in the same directory.
Deployment Options:
- Use as a standalone desktop tool.
- Convert into an executable with pyinstaller:
pyinstalleronefile slidegen_gui_tkinter.py

Environment Variables Required:

- OPENAI_API_KEY: Your OpenAl API key must be set or hardcoded.
Security Note:
Avoid hardcoding API keys in shared environments. Use environment variables or a config file.