MuseBoard Project Explanation

MuseBoard is a creative AI project that blends poetic text generation, artistic poster design, and emotion-based music mapping into a single interactive experience.  
  
Project Structure:  
  
1. app.py  
 - Main Flask application that handles routing and user interaction.  
 - Accepts user input (emotion, language, number of lines).  
 - Generates poems using a Hugging Face model via Groq.  
 - Passes poem to functions that create a visual poster and select background music.  
  
2. muse\_utils.py  
 - Contains core utility functions:  
 - `generate\_poem(emotion, language, num\_lines)`: Uses Groq’s LLM to generate emotion-based multilingual poems.  
 - `create\_poster(poem, emotion)`: Creates a visually artistic poster using PIL based on the emotion and poem.  
 - `select\_music(emotion)`: Maps emotion to background music and returns corresponding music file.  
  
3. static/  
 - css/: Stylesheet (style.css) for MuseBoard interface.  
 - poster/: Stores dynamically generated poster images.  
 - music/: Stores pre-mapped music files based on emotion.  
 - generate/: Holds generated poem (lyrics.txt), music file (music.wav), and text-to-speech audio (tts.wav).  
  
4. templates/  
 - museboard.html: Main UI where user submits prompt.  
 - poster.html: Displays the generated artistic poster.  
 - music.html: Plays background music and/or TTS version of poem.  
  
Features:  
- Multilingual poem generation based on emotion and line count.  
- Emotion-mapped music generation and playback.  
- Poster creation with artistic styling using the generated poem.  
- Text-to-speech for auditory feedback of the poem.

Output:  
  








  
  
  
