Automated Multilingual Daily Quote Generator

Objective:
Develop a Python-based system that automatically fetches, translates, and delivers daily motivational quotes via multiple formats, including text files, images, speech, and email.

Requirements & Functionality

Your task is to implement a Python application that:

1. **Fetches Quotes:**

   o Retrieves random quotes from an online API (https://dummyjson.com/quotes/random).

   o Extracts the quote and the author's name.

2. **Translates Quotes:**

   o Allows the user to specify a target language.

   o Uses an external translation library to translate both the quote and author's name into the selected language.

3. **Saves Quotes in Multiple Formats:**

   o **Text File:** Stores the translated quotes in a file named translated_quotes.txt.

   o **Image File:** Generates an image (translated_quotes.png) displaying the quotes in a visually appealing format.

   o **Speech:** Converts the translated quotes into speech using text-to-speech (TTS).

4. **Email Notification System:**

   o Sends the translated quotes as an email attachment (both as text and an image).

   o Uses SMTP to send the email.

   o Requires user credentials for email authentication.

5. **Automation & Scheduling:**

   o Runs the translation process at a scheduled time every day.

   o Uses the schedule library to trigger daily execution.

Implementation Constraints

- Ensure error handling for API failures and translation errors.

- The email-sending feature should handle authentication securely (avoid hardcoding credentials).

- Use object-oriented principles where applicable (e.g., defining a QuoteFetcher class).

- Optimize image generation by using appropriate fonts and spacing.

- The text-to-speech feature should read out only the translated quotes.

Submission Guidelines

- Submit a Python script (main.py) implementing all features.

- Provide a requirements.txt file listing all dependencies.

- Ensure that your code runs without errors.

- Comment on key sections of the code to improve readability.

pip install translate requests schedule pillow pyttsx3s