# **Task**: Translate a Video from English to German

**Objective:** Create an MVP for video translation.

**Inputs**

* A video file with original audio.
* The original transcription of the audio.

**Outputs:** A new video with the translated audio in German.

**Requirements**

1. **Audio Translation**:
   * Translate the audio from English to German, while preserving the identity, tone, and quality of the original audio.
2. **Video Synchronization**:
   * Revise the video with the new audio.
   * Ensure that the video remains synchronized with the new audio throughout.
   * Smooth out any visual distortions or discontinuities to maintain a natural flow.
3. **(Optional) Lip-sync**:
   * Adjust the lip-sync to ensure the video accurately reflects the new audio, with matching lip movements.

**Deliverables**

* **Code Repository**:
  + A public GitHub repository containing:
    - The source code for the solution.
    - A README.md file with:
      * Detailed setup and execution instructions.
      * General review of the pipeline and its main steps.
      * Notes on any assumptions or limitations of the solution.
      * Example commands or scripts to test the functionality.
* **Example Input Files**:
  + A sample video file with original audio.
  + The original and translated transcriptions for testing.
* **Example Output Files**:
  + The new audio file generated based on the translated transcription.
  + The updated video file with seamless transitions and synchronization.

**Submission**

* Push the solution to a public GitHub repository and share the link. Ensure the repository includes all necessary dependencies (e.g., requirements.txt or Dockerfile) and clear instructions for testing the solution.