

SLIDE AUDIO EXTRACTOR USING GRADIO INTERFACE

This application processes PowerPoint presentations to extract slide text, audio, and images using a Gradio-based interface.

Frontend

- **Framework**: Gradio
- Features:
 - Upload PowerPoint files.
 - Display extracted text from slides.
 - Play generated audio from slide text.
 - Show images extracted from slides.
 - Navigate slides using a "Next" button.

Backend

- Text-to-Speech: pyttsx3 is used to convert slide text into audio.
- PowerPoint Processing: python-pptx is used to extract text and images from slides.
- Image Handling: Pillow is used for processing and saving images.
- File Management: os and io libraries handle directories and binary data.

Necessary Libraries

1. Gradio: For the user interface.
bash
pip install gradio
2. pyttsx3: For text-to-speech conversion.
bash
pip install pyttsx3
3. python-pptx: For handling PowerPoint files.
bash
pip install python-pptx
- 4 Pillow: For image processing.
bash
pip install pillow

Key Features

- Extracts text from PowerPoint slides and converts it into speech (saved as audio files).
- Extracts images (if available) from slides and saves them as PNG files.
- Provides a simple navigation interface for moving through slides.
