PDF to Audiobook Converter

❖ Introduction

The PDF to Audiobook Converter is an innovative desktop application designed to convert the contents of PDF documents into clear, spoken audio. This tool is especially useful for visually impaired users, students, audiobook lovers, and multitaskers who prefer listening over reading. By extracting the text from any PDF file and converting it to speech using text-to-speech (TTS) technology, this project helps make digital reading more accessible and convenient. The user-friendly interface allows anyone to upload PDFs, control playback, adjust volume or speed, and even save the audio for future use. This project demonstrates the potential of combining Python libraries with GUI elements to build practical assistive technology.

❖ Abstract

This project focuses on building a user-friendly application that reads text from PDF documents and converts it into audio using speech synthesis. The application provides options to play the audio, adjust speed and volume, and export it as an MP3 file.

❖ Steps Involved in Building the Project

1. **Upload PDF** – Allow the user to select and upload a PDF file from their computer.
2. **Extract Text** – Read and extract all the text content from the uploaded PDF using PyMuPDF.
3. **Clean the Text** – Remove empty pages or unwanted characters to improve audio clarity.
4. **Convert to Speech** – Use pyttsx3 or gTTS to convert the cleaned text into speech.
5. **Play Audio** – Add controls to play, pause, or stop the audio directly in the app.
6. **Save as MP3** – Give the user the option to download and save the audio as an MP3 file.
7. **Add Controls** – Include options to adjust the volume and change speech speed.
8. **Build GUI** – Design a simple and clean interface using Tkinter for easy use.

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❖ Tools Used

- PyMuPDF
- pyttsx3 / gTTS
- Tkinter
- Python

❖ Conclusion

The **PDF to Audiobook Converter** provides a practical solution for transforming textual information into spoken audio. This project demonstrates the power of combining Python libraries with a simple GUI to make reading material accessible to a wider audience.