The proposed PDF to audio converter is intended to do the task of reading a pdf which will eliminate the efforts of printing the bulky Braille script books & manual recording of normal textbooks

In the current busy routine people do not have time to take a book and spend time reading it, instead, everyone needs alternative access to read the content

When a person tends to read a book, it requires to invest his/her time in reading. Whereas the audiobook makes the task easy, and the user can perform their task as well as listen to the audio.

It provides an alternative way to access the books and any pdf file for lazy, readers, and others.

In the current generation students, researchers, and authors don’t find time to read a book on an electronic device as that might strain their eyes and might face other issues (headache, itchiness in the eye).

So, to overcome those problems we have designed an application that extracts the text from the selected PDF and reads it out to the user.

Audiobooks allow students to hear explicit sounds of letters and letter patterns that form words. Audiobooks also help students engage in text and gain exposure to more words, ultimately improving vocabulary, comprehension, and critical thinking skills.

In this project, we present a simple way to combine different Python libraries for creating an Audiobook that takes a PDF file path as input and reads the text in the PDF file to the user via audio. Python programming language was used to create this project

Using this PDF to Audio Converter the user will be able to listen to his\her favorite PDF and can do their daily routine

An audio reading of the text is convenient and does not require much concentration as reading requires

In this project, we have implemented a simple PDF to audio converter using python.

When we compare it with the current features present in a normal audiobook converter, they convert PDF texts (or images) into speech and have volume controls with single voice conversion (either male or female). Only a single language choice is given to the user in case of voice modification.

While seeing the Audiobook converter which we have built, it converts the PDF text (or images) into speech with differences in the same PDF document

In this project conversion of PDF text into audio can be achieved by translating the text into our desired language.

The PDF to the audio system will power text on screens to read aloud (speak) with support for many languages

The user can also save, and modify the PDF document, while the audio of the converted PDF is running in the background. This exclusive feature reduces the time consumption of writing notes and reduces paper consumption.

To create a PDF to Audiobook Converter using different python files, functions, and definitions. The main packages used in this audiobook converter are PyMuPDf, Pytesseract, Fitz, and Pygame.

The Workflow of the project is:

In this PDF to Audio Converter the user needs to select any PDF file from the desired location by pressing the open pdf.

After selecting the PDF file, we have to select the Range of pages we want to convert into the audio.

After selecting the Range, we have to select in which language we want the pdf to be converted.

After pressing the enter key, Program will display the desired output.

To exit the program, we press the cancel button.

ALGORITHM

Take the PDF file and convert each page into an image using the PyMuPDF library.

Take the image(s) and scan the text in the image using the Pytesseract OCR library.

Use Google Text to Speech (gTTS) library to convert text to audio files.

Get the Pygame mixer to play the audio file loud.

Convert text in the selected language and create a .txt file for storing the converted text.

ADVANTAGES

It avoids eye strain from too much reading.

It helps seniors or those having vision problems.

It can help in reading large paragraphs and offers a range of different languages

DISADVANTAGES

Pronunciation analysis from the written text is a major concern.

It is difficult to build a perfect system.

Filtering background noise is a task that can even be difficult for humans to accomplish