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ONLINE PDF TO AUDIO CONVERTER AND TRANSLATOR

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ABSTRACT

Be it browsing through the seemingly endless pages of terms and conditions on an important official document or kicking back and flipping through an intriguing eBook- reading is quite an undeniable and inescapable part of our everyday lives. However, reading anything demands our complete undivided attention making it nearly impossible for us to multitask. This Online PDF to Audio Converter and Translator was created by using Python (Django) can instantly convert any PDF text into audio. Along with reading any PDF document out loud, this application can also translate and vocalize any text into up to five languages.

Keywords: Audio Converter, Translator, Django (Python Framework).

I. INTRODUCTION

As we know few people like to save their time, they will use this PDF to Audio so they can multitask. PDF converter saves your time, they are simple solution for creating a personal e-filing system. With this solution you can manage larger PDF and documented information more effectively. This is a best way to keep down the paper use and keep edited work in digital format. This is done easily using Django, it helps to authenticate registration and login process. If a person is traveling, he\she cannot read a book, instead of reading, they can listen to it. Reading stories or essays or any text can be arduous however an audiobook would make the task easy, by reading the text. However, an audio reading of the text is convenient and does not require much concentration as reading requires. 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 own task as well as listening to the audio. In this project, we have implemented a simple online PDF toaudio converter using python technology.

When we compare with the current features present in a normal audiobook converter, they convert PDF texts (or images)into speech, and they have volume controls with single voice conversion (either male or female). Only a single choice is given to the user in case of voice modification. They provide the play and pause options. The speed of voice is alwaysfixed. In this current busy scheduled human do not get time to read a book, or to convert the PDF file into an MP3 player using third-party applications or web applications. Even I have a directory at which I store pdf books that I plan on reading, but I never do. So, I thought hey, why do not I make them audiobooks and listen to them while I do something else! In this system, we are developing a GUI based web application using python to convert the PDF file into audio format and read it out to the user. The application is more user friendly as it does not require any audio file or MP3 player.

II. METHODOLOGY

The waterfall model is a basic model used in system development life cycle to develop a system with a linear and sequential format. It is termed as waterfall because the model develops systematically from one part to another in downward approach. The waterfall approach doesn't define the process to go backward to the last phase to handle changes in resources. The waterfall approach is the better approach that was used for software development projects.

- **Vs code –**

Visual Studio Code is a free coding editor that helps you start coding quickly. Use it to code in any programming language, without switching editors. Visual Studio Code has support for many languages, includingPython, Java, C++, JavaScript, and more. Visual Studio Code is a free source code editor that fully supports Python and

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useful features such as real-time collaboration

- **Python 3.9-**

Python language is mostly used for developing web apps and software, task automation, data analysis, and data visualization. Python googletrans is a module to translate text. It uses the Google Translate Ajax API to detect languages and translate text. PyPDF2 is a python library used for doing major tasks on PDF files such as extracting the file to specific data, merging the 2 or more PDF files, splitting the pages from PDF file, adding watermarks to a file, encrypt and decrypt the PDF files, etc. We are going to use the PyPDF2 library in this project. It is an original python library so it can execute on any platform without any platform-related dependencies on any libraries.

- **Django 4 –**

Django had used to build almost any type of website and web app from content management systems,through to social networking app and traditional news sites. It can work with any client-side framework, and can deliver website in almost any pattern.

Django uses the Python 2/3 Compatible Source strategy. Of course, you're free to choose another strategy for your own, especially if you don't need to stay compatible with Python 3. But authors of pluggable applications are encouraged to use the same porting strategy as Django itself.

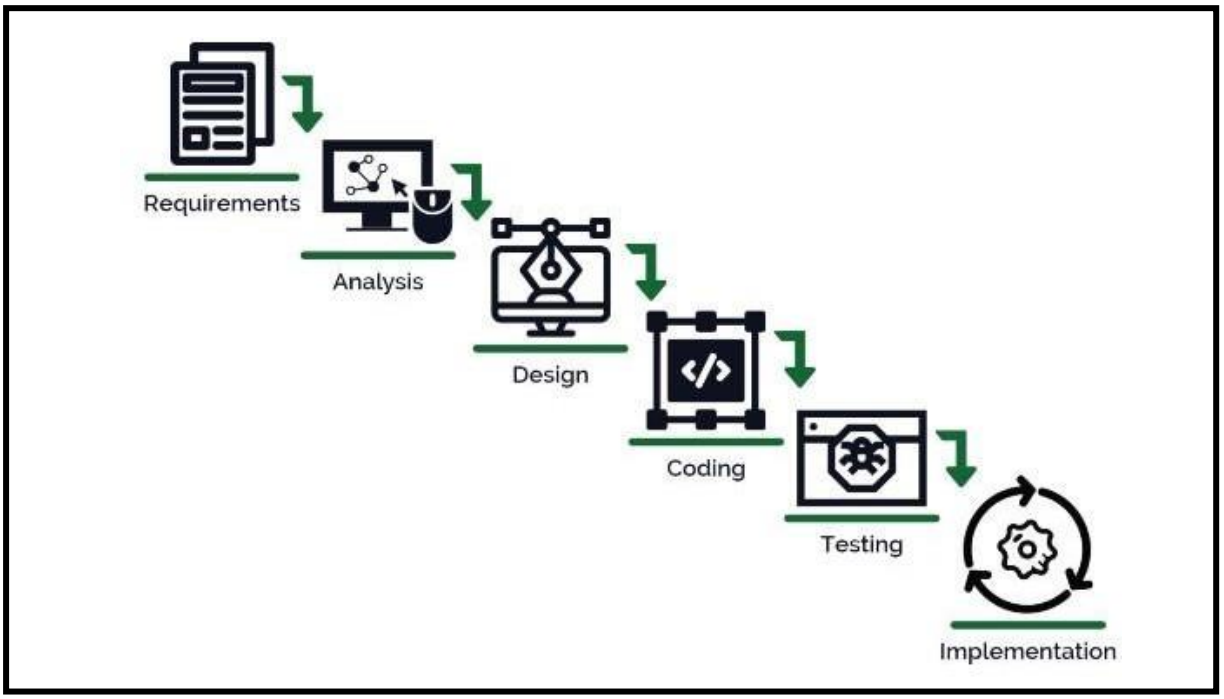

Figure 1: Waterfall Model

The Workflow of the project is:

III. MODELING AND ANALYSIS

- In this PDF to Audio Converter the user needs to select any PDF file from the desired location by pressing theopen pdf.
- After select the PDF file
- After selecting the type of translating language, we want the program to read out the pdf in the particular voice we haves elected.
- We can tune the volume of speech.
- To exit the program, we press the exit button.

Working of system is described as: From the block diagram, we can understand the basic functionality of the project. The main feature in our project is to convert a .pdf file into a .mp3 or .mp4 file. For this, we had used two libraries (i.e. pyPDF2). PyPDF2 – It will help with the text from the PDF and is capable of extracting document

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information, splitting documentspage by page, merging documents page by page, etc

- First, the program will import the PyPDF2 modules.
- Then to open the Pdf fill we have used PdfFileReader().
- Then to select the page to be read we used the getPage() method.
- To extract the text from the page we have used extract text.
- Then by using PyPDF2 it will convert text to speech.

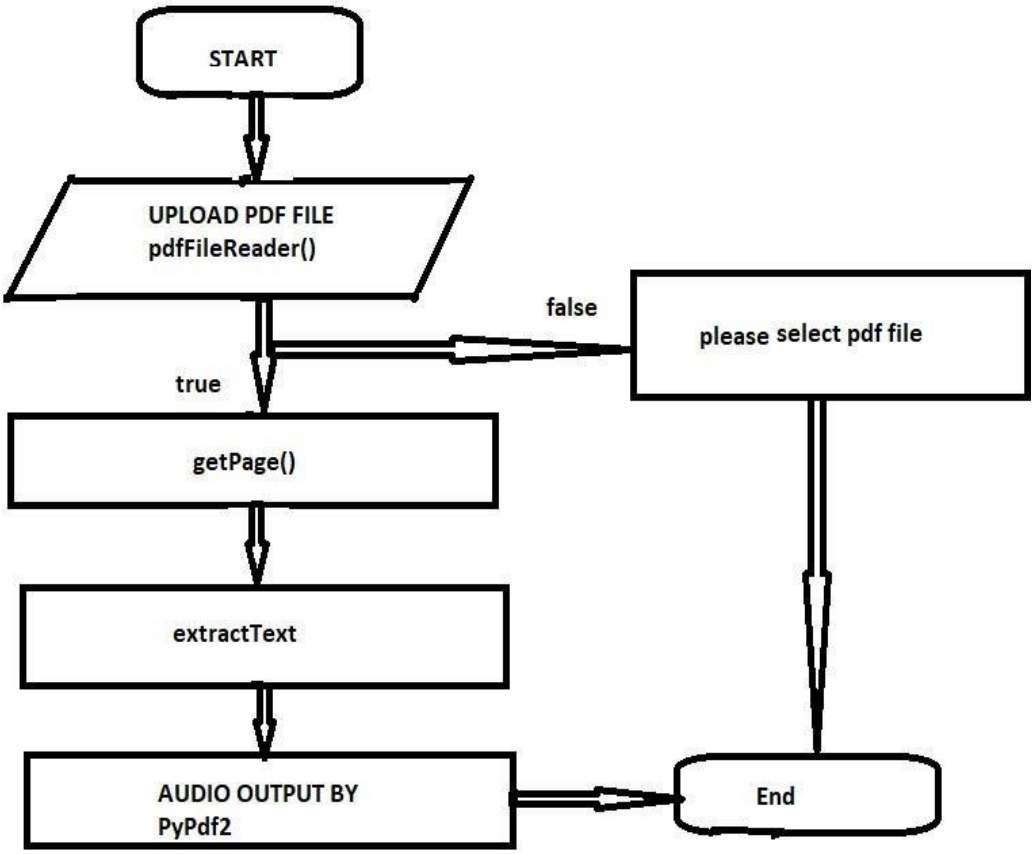

Figure 2: Flow-Chart

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IV. RESULTS AND DISCUSSION

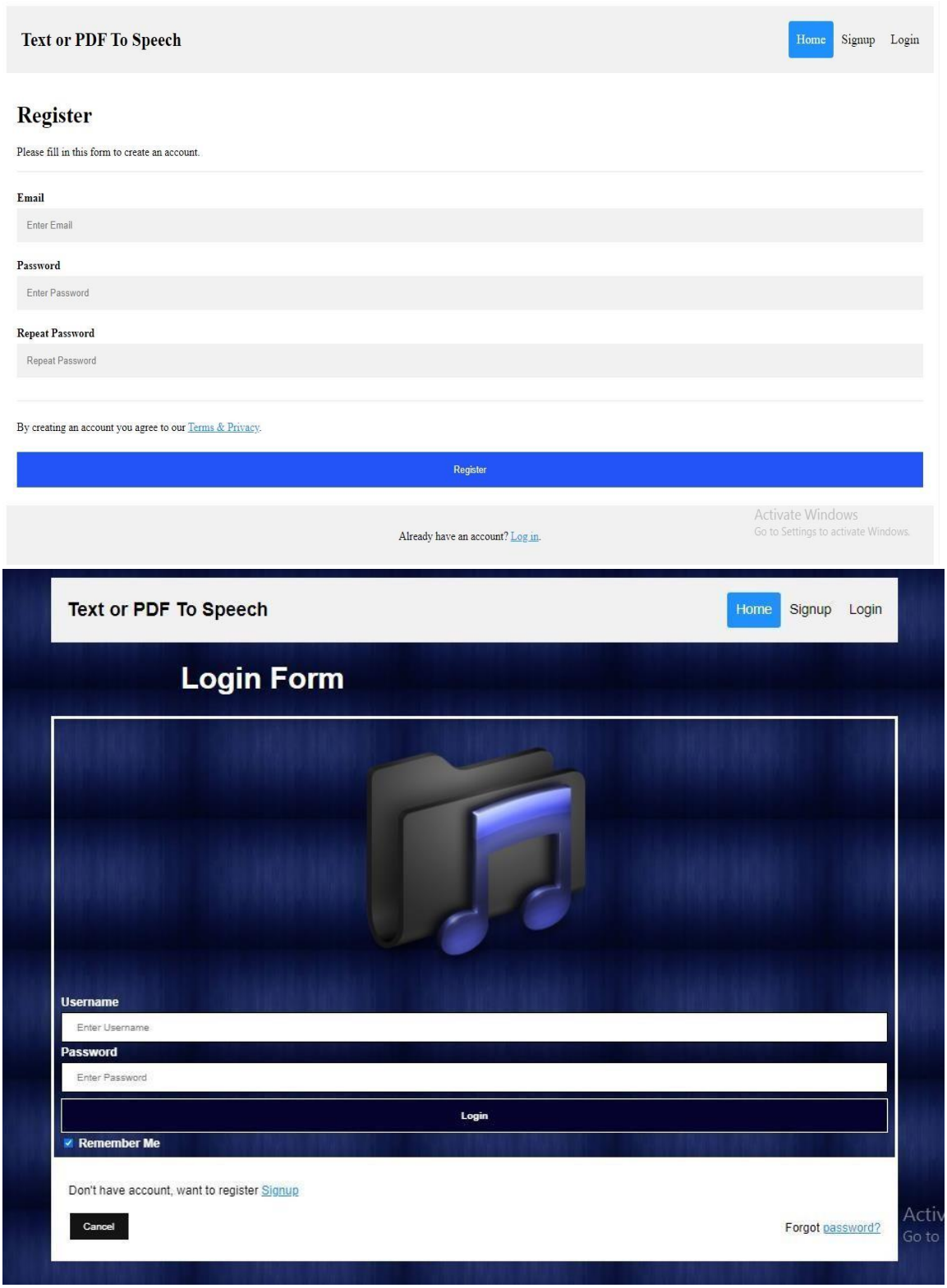

Figure 3: Output of login and register

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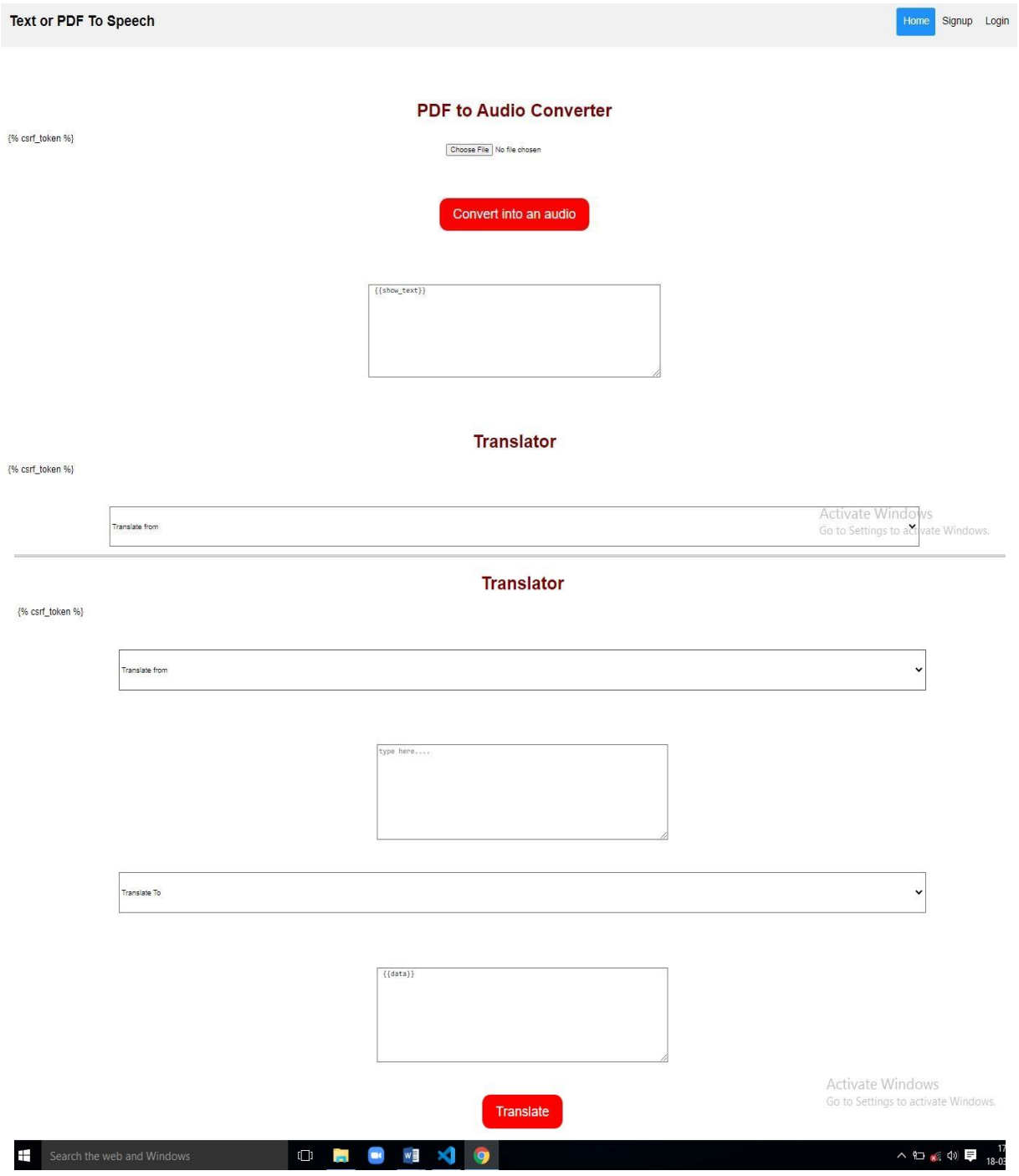

Figure 4: Converter and Translator

V. CONCLUSION

It was seen that this code performs really well in reading straightforward PDF text files. Should enable users to select the desired PDF and convert it to audio and display text in, so the user can understand that particular text has been read. Should enable students with reading disabilities. The success of this research paper is significantly given the most use of audiobooks in literacy and library across the globe. Teachers and school librarians may also use these findings as a rationale for adding audiobooks to the list of reading strategies used successfully with struggling readers. We are more interested in upcoming research on the use of audio novels with struggling readers who are younger than those who participated in the studies and on audiobook usage of English Language Learners usually. At this point, the point of view does not have a stop feature, we intend to add more features and do more interesting things with the application of Machine Learning in the audiobook.

With the help of ML, we can add the features that willrecognize the commands of the user and implement the operations as the user wants. This feature will help mostly for the disabled persons like the blind and handicap.

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