PDF TO AUDIO CONVERTER AND TRANSLATOR

Project Reference No.: *45S_BE_2099*

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Introduction:

Today there is a wide spread talk about improvement of the human interface to the computer. Because no longer people want to sit and read data. Since there is a painstaking effort to be taken, this involves strain to their eyes. Voice is a better interface when it comes to illiterate people rather than Graphic User Interface in English. In this system user can easily convert text to speech, which will help blind people to hear the text. In this system there is one major module namely User, User will be allowed to upload the pdf file in order to convert into an audio file. System converts the uploaded pdf file to audio file and saves its details into database and audio file in a folder.

All the converted pdf to audio files will be listed to the user and he/she can play and listen to the audio file. Python is widely used for analyzing the data but the data need not be in the required format always. In such cases, we convert that format (like PDF or JPG etc.) to the text format, in order to analyze the data in better way. Python offers many libraries to do this task. Along with reading any PDF document out loud, this application can also translate and vocalize any text into up to four languages.

Objectives:

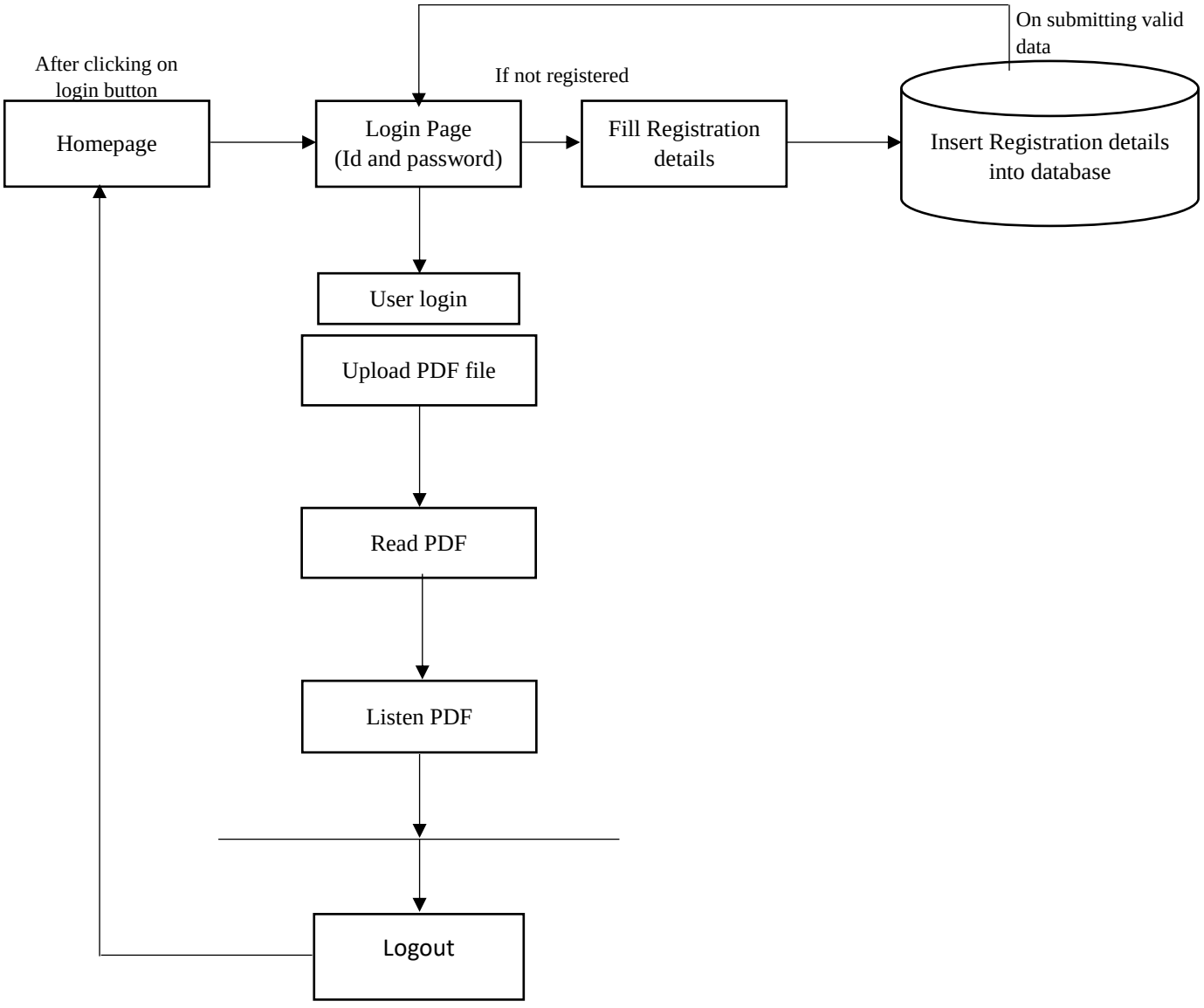
- To Convert the pdf to audio with the click of a button.
- To translate the speech in all regional languages.
- To provide means of converting written text from a descriptive form to a spoken language that is easily understandable by end users.
- In this system user can easily convert text to speech, which will help blind people to hear the text.
- In this system there is one major module namely User, User will be allowed to upload the PDF file in order to convert into an audio file.

Methodology: Modules and Their Description
The system comprises of 1 major module with their sub-modules as follows:

User:

- Upload PDF file: User will be allowed to upload the pdf file in order to convert into an audio file.
- Read PDF: System converts the uploaded pdf file to audio file and saves its details into database and audio file in a folder.
- Listen PDF: All the converted pdf to audio files will be listed to the user and he/she can play and listen to the audio file.

System architecture:



The Project is designed and developed in Django Framework. We used Django Framework for coding of the project. Created and maintained all databases into MySQL Server, in that we create tables, write query for store data or record of project.

❖ **Hardware Requirement:**

- Processor –Core i3
- Hard Disk – 160 GB
- Memory – 1GB RAM
- Monitor

❖ **Software Requirement:**

- Windows 7 or higher
- Python
- Django framework
- MySQL database

Results and Conclusion:

This is our project of System Design about “Pdf to Audio Converter” developed in Django in Python programming language. The Development of this system takes a lot of efforts from us. We think this system gave a lot of satisfaction to all of us. Though every task is never said to be perfect in this development field even more improvement may be possible in this application. We learned so many things and gained a lot of knowledge about development field. We hope this will prove fruitful to us.

Scope for future work:

- The current uploading system needs improvement as it takes long time for larger pdf to get uploaded.
- The system consist of regional languages, with time we can also include foreign languages (German, French, Russian, etc).
- The document translation is supporting for PDF document, further it can be used for translating documents with extensions .txt, .docx , .ppt, etc
- This system will be very helpful to visually impaired people.