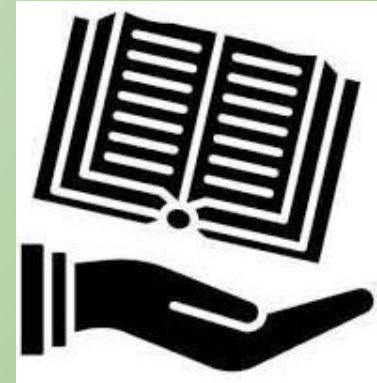


OBJECTIVE

➤Developing a Python application that extracts news articles or content from a specified HTML source (webpage) and converts the data extracted into spoken words using text-to-speech technology and it also provides options for language(like English and Tamil) with an user friendly UI.The news that is played by the application will be always updated and will be accurate.

The issues:

1.low literacy rate of Blind people 2.Ordinary people aren't aware of current affairs











IDEA

Idea:

- Around 45 Million people in India are visually impaired and 0.45 Million of them are children. Literacy rate among these people is just 1% to 2% of the normal literacy rate in India.
- People often say "Newspapers is basic tool for education". If the blind lacks the ability to read, this project of mine will help them to educate through AI generated-speech and in the meantime they will be aware of current affairs.
- And also the ordinary people could listen to the news while performing their daily works without distraction. So this project would boost Multitasking in ordinary people's life and enhances time management.

TECHNOLOGY

TECHNOLOGY	TOOLS / LIBRARIES	DESCRIPTION
1.PYTHON PROGRAMMING	 	<ul style="list-style-type: none"> ➤ High level language ➤ Vast libraries ➤ Friendly IDLE
2.WEB SCRAPING	 	<ul style="list-style-type: none"> ➤ BeautifulSoup (BS4) Lib ➤ LXML parser
3.TEXT-SPEECH TECHNOLOGY		<ul style="list-style-type: none"> ➤ Gtts Lib -Text to Audio ➤ Playsound Lib -Play audio
4.PY-GUI	 	<ul style="list-style-type: none"> ➤ Using Tkinter GUI
5.VOICE RECOGNITION TECHNOLOGY		<ul style="list-style-type: none"> ➤ Using SpeechRecognition lib

Work Flow

1.To Find appropriate source



2.To scrap the required information



Voice recognition for selecting options

Selecting Manually

Converts the text & tracted into audio file



Playsound Module plays the audio file



Use case

Let us assume a person: Vijay Kumar

Character:He's a busy person who is continuously committed with his daily works from the morning till evening.He would definitely be tired and he would probably sleep earlier.

Use Case :In the meantime,he should also be aware of what's happening in the society,So he can just play the “Automated News Reader”,which will summarize him the news in the language that he prefer to hear without distracting him or straining him much.



Use Case 2:A blind-man could keep himself updated about the society like an ordinary person.

Dependencies

We require a set of python libraries and internet connection.

Python libs:

- Tkinter
- BeautifulSoup
- Gtts
- Playsound
- Requests

Novelty

→Enhanced Accessibility:
Users with visual impairments or those preferring auditory learning styles. enhances accessibility, making news consumption more inclusive.



→Multitasking convenience



→Adaptability to user needs(Lang preferences,specified content..)

→Efficiency and time-saving

CONTACT FOR HELP

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HARSACH DEVELOPERS
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****Your issue will be sorted out within 48 hours**