

Jawahar Education Society's
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YOUTUBE VIDEO SUMMARIZER

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INTRODUCTION

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- Enormous number of video are being created and shared on the Internet through out the day.
- It has become really difficult to spend time in watching such videos which may have a longer duration than expected .
- Summarizing the captions or transcript of any you tube video, it is able to pull the most important information and condense it into a small paragraph.
- Reading this paragraph would take a tiny fraction of the total length of the video, while still providing the most important points to the user.

MOTIVATION

- The main motivation to make the YouTube Video Summarizer is to save time.
- To get the concept of the video rather than watch the entire video for a tremendous time.
- There are countless occurrences where YouTube videos lure users in with eye catching titles and thumbnails, and the next thing they know, half the day has passed.

PROBLEM STATEMENT & OBJECTIVES

- You Tube Video Summarization aims to generate a short synopsis that summarizes the video content by selecting its most informative and important parts.
- To save time by showing a brief on what topics are covered in the video.
- Our project uses python techniques to extract the summary of the video. Its always difficult to run these codes for a common user.

LITERATURE SURVEY

SURVEY OF EXISTING SYSTEM

- The previous work of this already exists. In existing system, they created the summarization only in one language.
- Over the last decade, several YouTube summarizers tools have been developed and it is still receiving increased interest from both educators and researchers.
- In this project, there is a limitation of user input like only selected you tube video link can be access.

LIMITATION EXISTING SYSTEM OR RESEARCH GAP

- Most of the available software are extensions which are not available for all browsers.
- No text to speech conversion
- Does not provide the ability to change languages.
- Can crash a browser if they take up too much resources.

MINI PROJECT CONTRIBUTION

- Our project is a small attempt for developing YouTube Video Summarizer using python.
- Firstly, we generated set of algorithms that we want to implement in this project with the help of many existing system and their limitations.

PROPOSED SYSTEM

INTRODUCTION

- We are going to implement summarization in different languages.
- Also Proposed system will give summary in Audio format.
- Summarized text would be downloadable by the user.

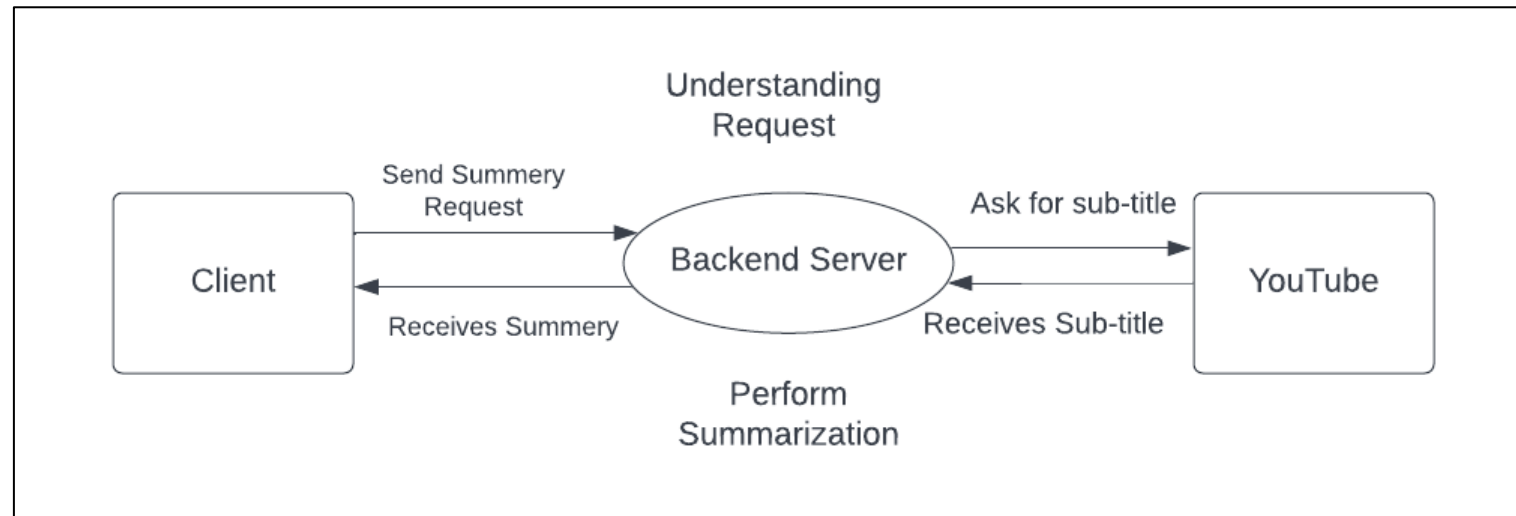
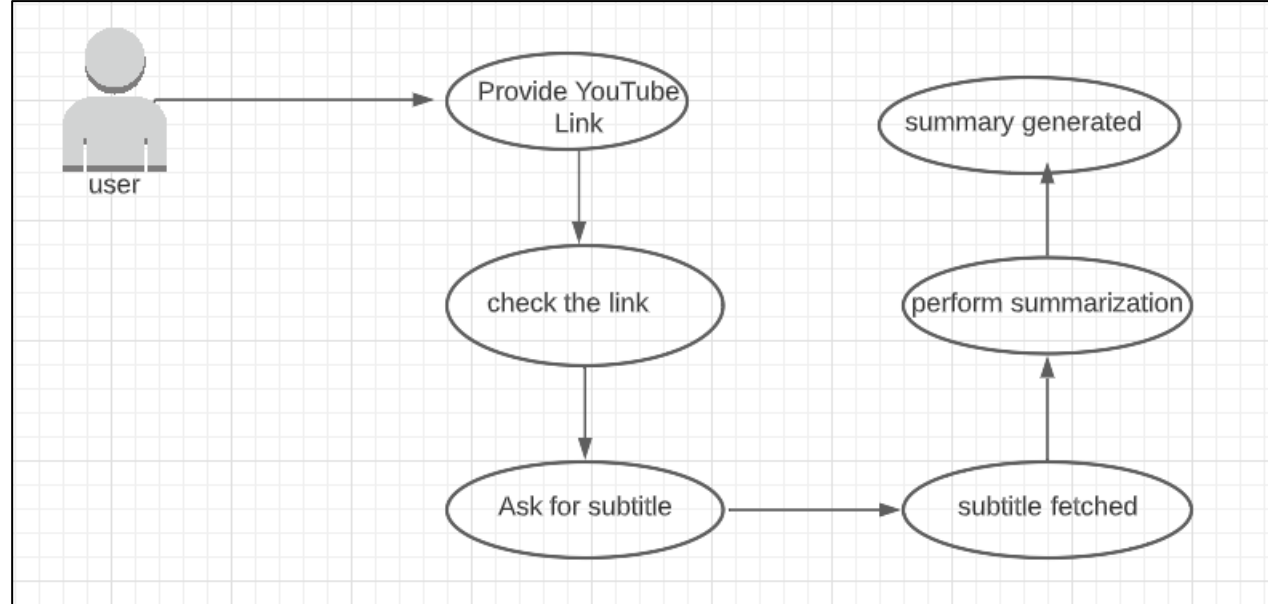


Fig. Demonstration DFD

ARCHITECTURE AND FRAMEWORK



ARCHITECTURE AND FRAMEWORK

1. Extract transcript using YouTube-transcript-api.
2. Summarize the transcript using pipeline.
3. Translate the summary into various dialects using google translator.
4. Audio output using gTTS.
5. For UI used Tkinter.

DETAILS OF HARDWARE & SOFTWARE

➤ Software Requirements:

- Operating System - Windows 10
- Language - python
- Browser - Any of Mozilla, Opera, Chrome etc.
- Software Development Kit – Jupyter notebook, Google Colab

➤ Hardware Requirements:

- Processor – Intel Core i3
- RAM – 8GB

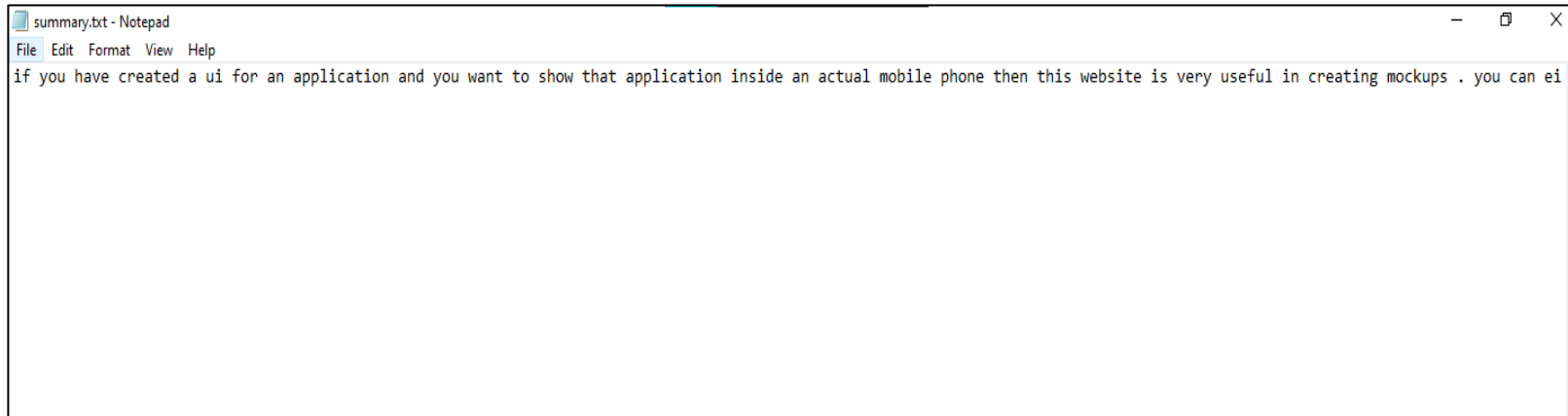
RESULTS AND DISCUSSION


```
In [7]: original_text = final_tra1
summary_text = summarization(original_text)[0]['summary_text']
print("Summary:", summary_text)
```

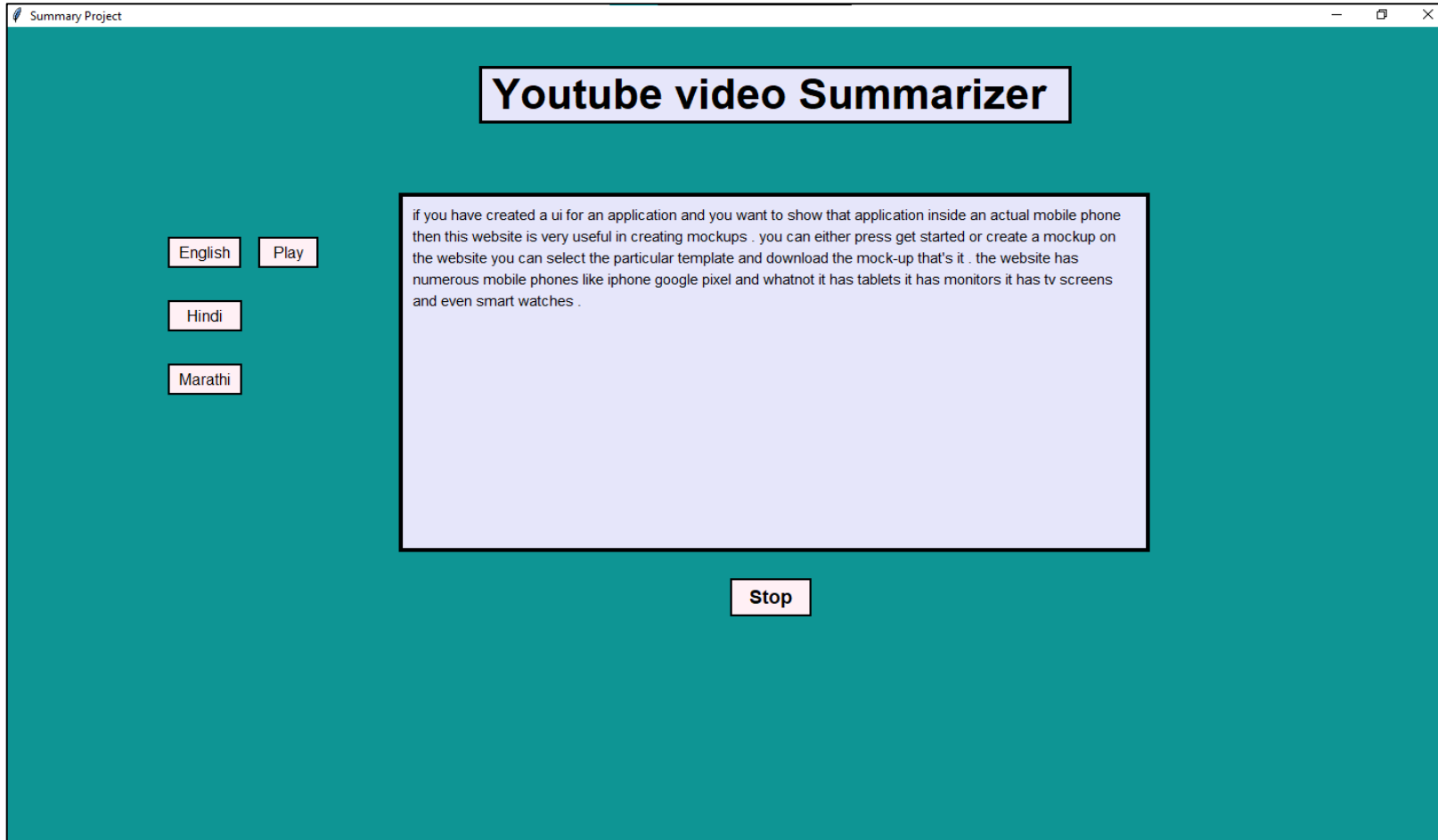
Token indices sequence length is longer than the specified maximum sequence length for this model (1442 > 512). Running this sequence through the model will result in indexing errors

Summary: if you have created a ui for an application and you want to show that application inside an actual mobile phone then this website is very useful in creating mockups . you can either press get started or create a mockup on the website you can select the particular template and download the mock-up that's it . the website has numerous mobile phones like iphone google pixel and whatnot it has tablets it has monitors it has tv screens and even smart watches .

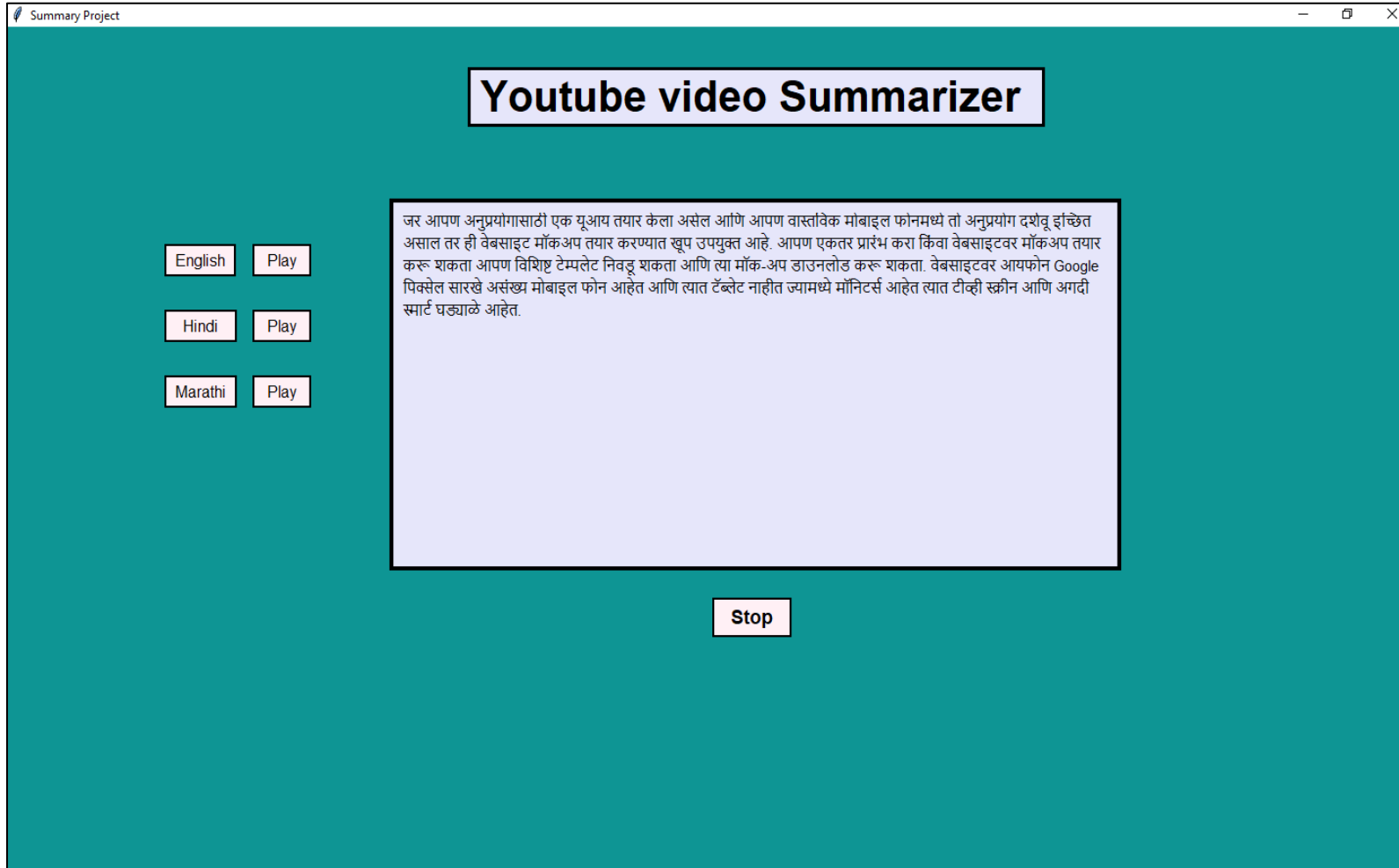
Summary Generated



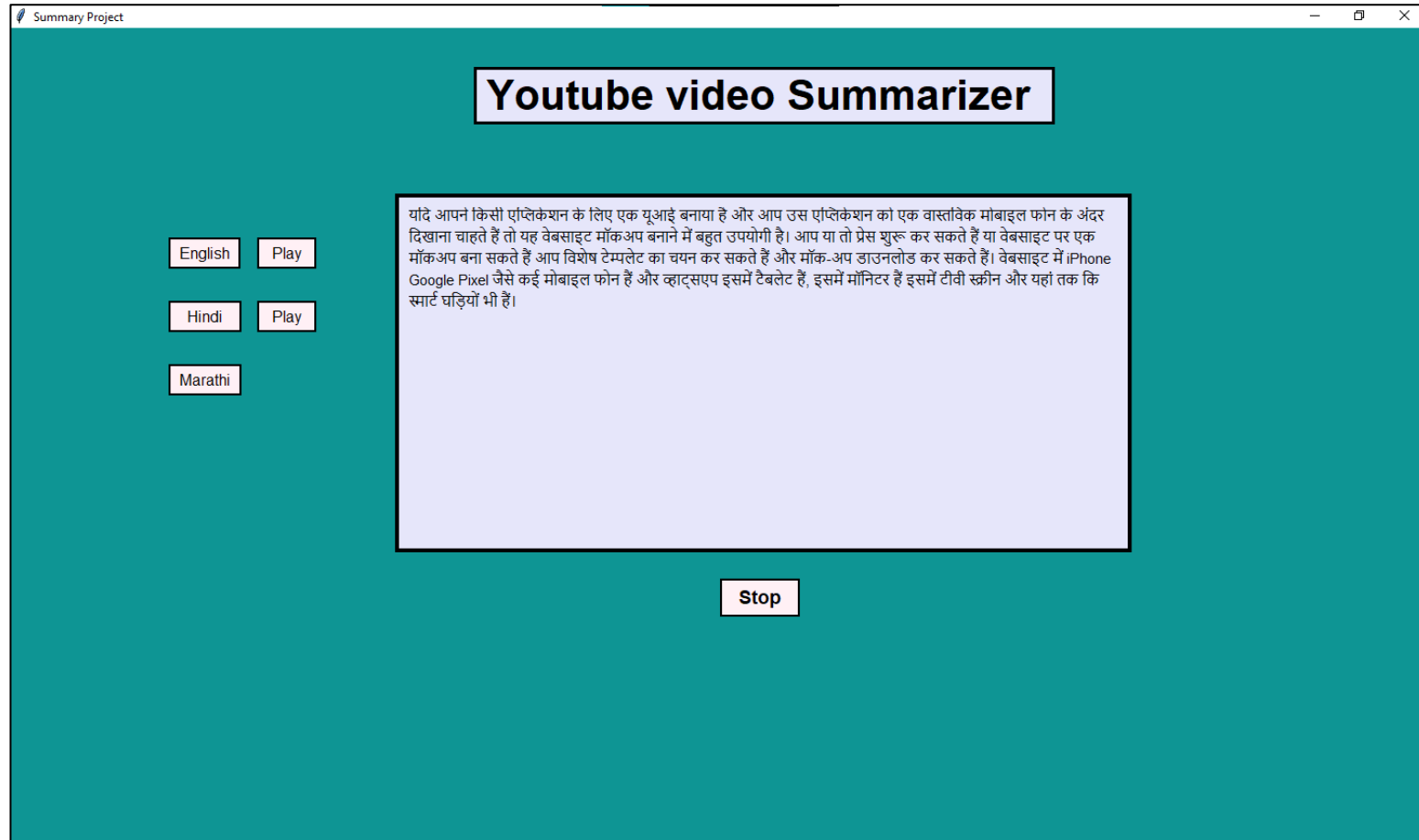
Summary.txt



Summary



Conversion of language (Marathi)



Conversion language (Hindi)

CONCLUSION

The conclusion of the YouTube video summarizer is to make system which will give short summary for the YouTube video.

By doing this project we able to access summary for the entire video.

REFERENCES

- [pypi.org project: youtube-transcript-api](https://pypi.org/project/youtube-transcript-api/)
- [pythonbasics.org : transcribe-audio](https://pythonbasics.org/transcribe-audio/)
- [translate-text-in-python](#)

THANK YOU