PROJECT

BBA-CA SEM IV

TOPIC : The Dictator

Done by :

Group Number - 19

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Abstract

This project helps us to read large text files. And allows the user to select from a variety of voices, both natural and artificial, including many tweaks support like for example: Pitch, Rate, Volume, Accents. This project uses both frontend technologies and backend technologies and is aimed to help people understand their content in whatever format , easily , and to increase their work productivity.

Especially for students , who get a lot of notes in .pdf , .docx , .txt format , this project might turn out useful .

Problem Statement

Design a system, that can allow users to read aloud their documents, without the limitation of file formats. Also, if possible, add options to set different pitches, pace, tones, accents, languages.

Motivation

Studying or reading from files becomes boring after sometimes , that's why we came up with the idea to build a website , which will use both frontend and backend technologies , to create a GUI and let the user upload files , read them aloud.

Project Scope & Limitations

The scope for this project is pretty limited , as there are various other tools available in the market , which are free , open source , and more reliable , however , this might be a very useful tool for students who want to read notes and study in a faster way . Also, adding the following features to this project might add some weightage to it :

- Allow users to login / sign-up , so that they can save the files on server , and access from anywhere , anytime .
- Adding a option to resume from the page / column where the user has left off at .
- Adding support for more languages .

Limitations :

- Not all languages are supported.
- Many other better alternatives available in market.
- Not all file formats are supported , currently only - .docx, .pdf, .txt .
- Login feature isn't added yet (I will be maintaining the project on my github and will try to add most of those features mentioned above) .

Project installation and setup

Installation and setup is straight-forward , some requirements :

- Python3
- pip
- packages from requirements.txt

Installation :

- Clone the repository https://github.com/Anonymous-1901/The-Dictator
- Go into the directory – **cd The-Dictator**, and install dependencies , run **pip install -r requirements.txt** for windows & **pip3 install requirements.txt** for Linux / Unix based systems .
- Make sure you have a active internet connection , as it is needed for TTS Engine , and Bootstrap cdn's .
- Run the app.py file – Windows – **python app.py**
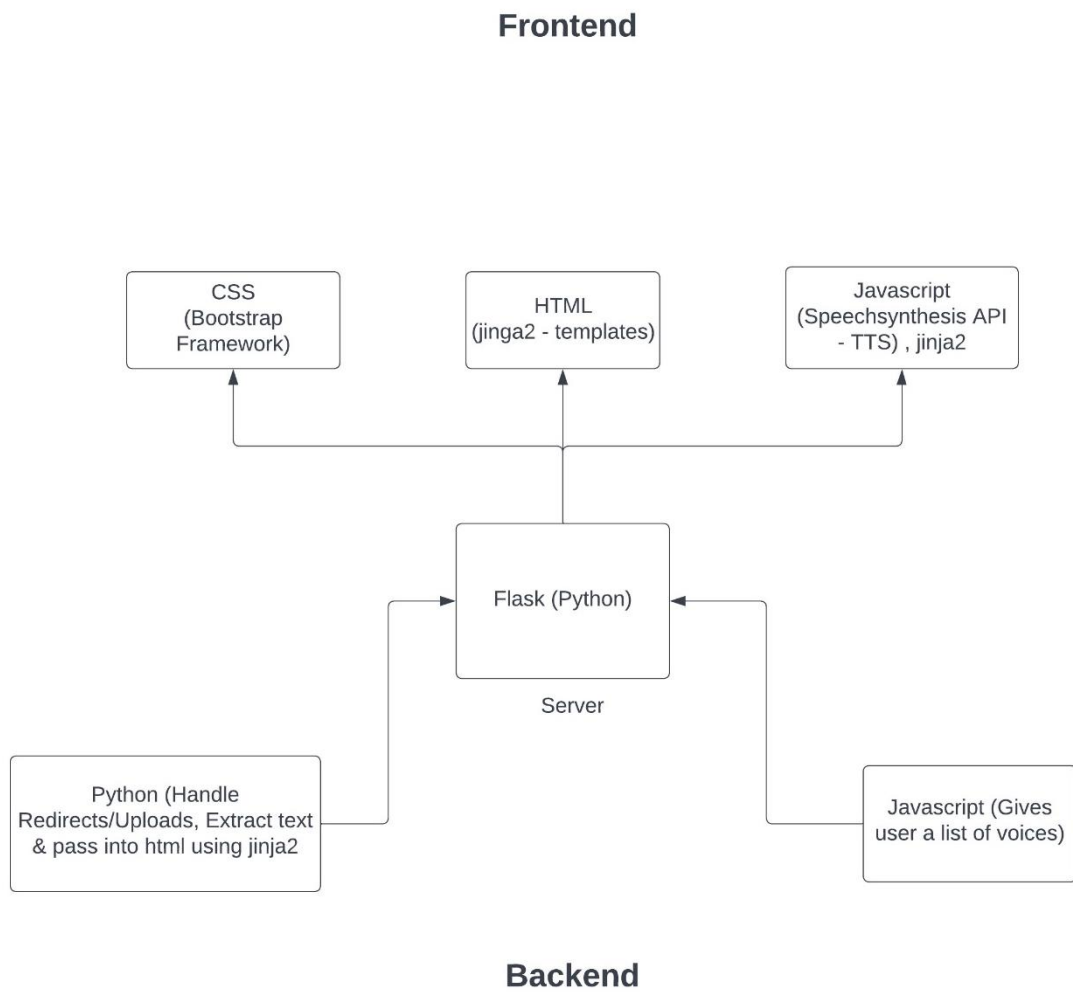 Linux – **python3 app.py**
- That's it !

System Requirements

Ram : 1024 mb or higher

CPU : Intel Celeron n4020 or AMD Athelon 3000 or higher

Disk : Minimum 20 GB

Basic System Diagram

Frontend

| CSS (Bootstrap Framework) | HTML (jinga2 - templates) | Javascript (Speechsynthesis API - TTS) , jinja2 |

Flask (Python)

Server

Python (Handle Redirects/Uploads, Extract text & pass into html using jinja2)

Javascript (Gives user a list of voices)

Backend

THANK YOU !