

## **VidEdit**

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**GitHub Link:** <https://github.com/C-lp/csc690-final-project>

**Website Link:** <https://videdit.herokuapp.com/>

### **Use Case**

User X recorded an amazing video to capture San Francisco's beauty and would like to edit the video. Our application will allow User X to upload his video/photos and even an audio file to complement the video. User X can then edit the video by cropping segments out, changing hue, saturation or grayscale. Since User X also recorded locals speaking, with our application, he can create subtitles just by using our sound to text recognition.

### **Category**

This application falls under a category of movies and videos.

### **Development Language**

Python as a desktop application. Application runs only on Windows.

### **Major Multimedia Operations**

- Edit - Since we have a video as a final product, being able to place audio files and video showcases the operation of edit.
- Annotate - The function of adding subtitles is considered annotating the video at certain points of time.
- Browse -After browsing and selecting files from the desktop, we are able to browse the files we have imported by clicking each list. Order and name of files are shown.
- Display - The function of previewing each item in the import list and displaying the whole video.

### **Libraries**

Libraries we would use are: FFMPEG, PYQT5, TKinter

### **Media Types and Input/Output Files**

The input data is located on the hard drive.

Input types are video (.mp4, .mov)

Audio ( .mp3,.wav)

Subtitle text file(.srt)

### **Output**

Video file(.mp4)

## **Interactions**

Mouse events:

- Menu bar containing buttons
  - Click functional buttons
    - Import videos/audios
    - Select directory items,
    - Playback/ Pause/ Stop video
    - Adding subtitles
    - Placing files on timeline and moving them
- Select frames from the timeline

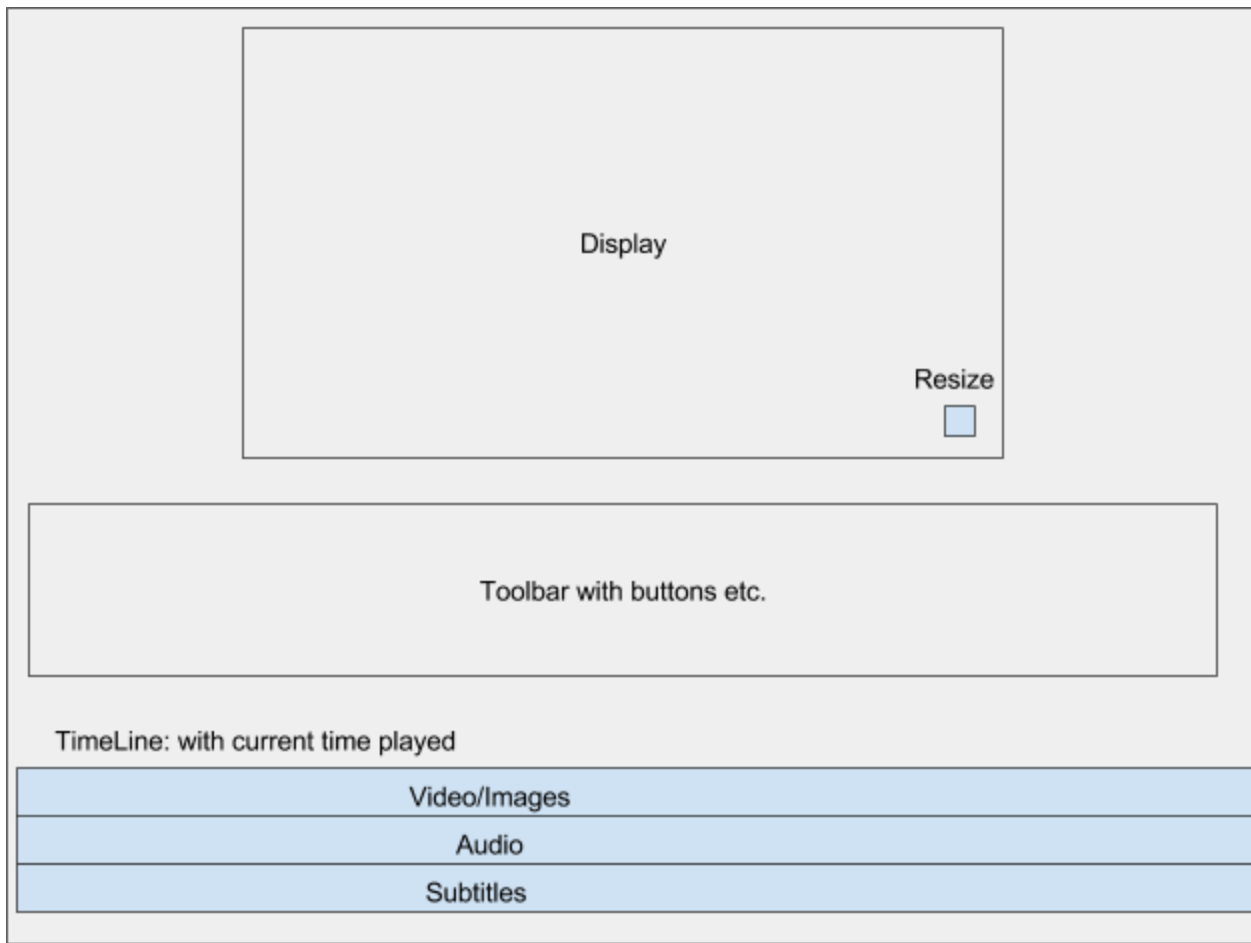
## **Accomplished Functions**

- Importing files(Audio and Video)
  - Import List is created for browsing
- Preview of imported Files
  - Separated playback
- Adding of subtitles to timeline and displaying them on screen
  - Partially working, One subtitle shown
- Placing files on timeline based on user input
  - Can move after on timeline
- Playing back all files on timeline
  - Some bugs, but works on first run
  - Videos should still play after moving them on timeline
- Exporting project as a video
  - Can be exported if there is only one video, Audio file has to be on timeline also
  - Multiple rendering of videos exports as a black(empty) video but sound plays for duration of soundtrack

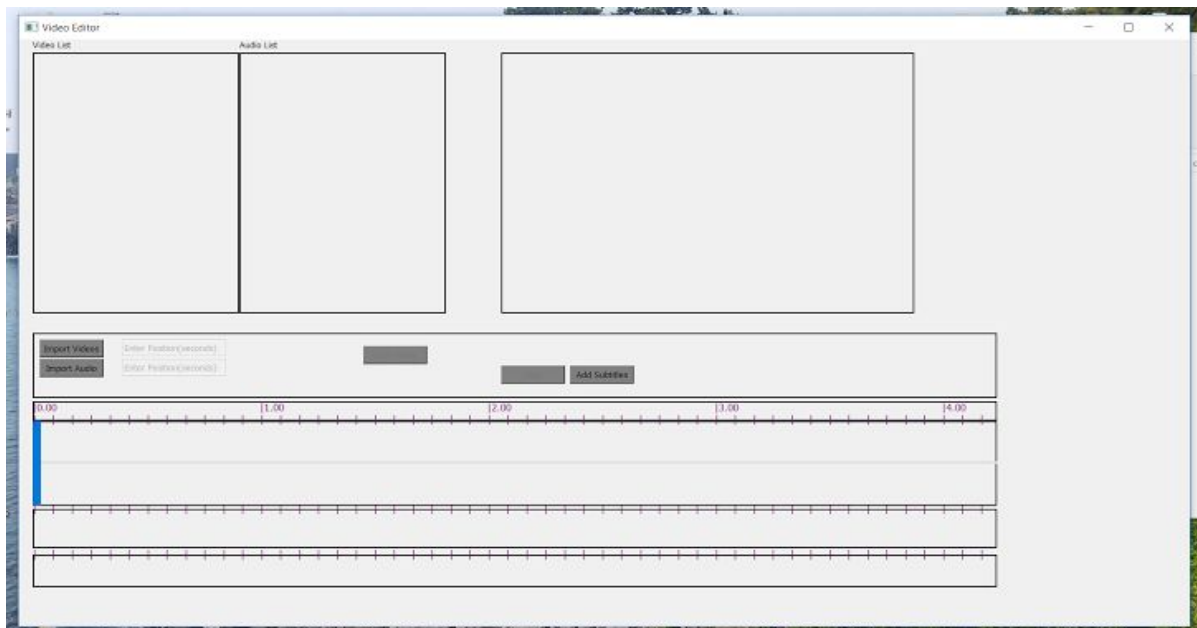
## **Conditionals While Running Program**

- If an audio file or subtitle is imported and in the timeline, must import a video file as well.
- Videos can played alone on the timeline.
- Any media can be previewed while in the list.
- Can only export/save a video with an audio file if there is a video.
- Save/export works if only videos are on timeline

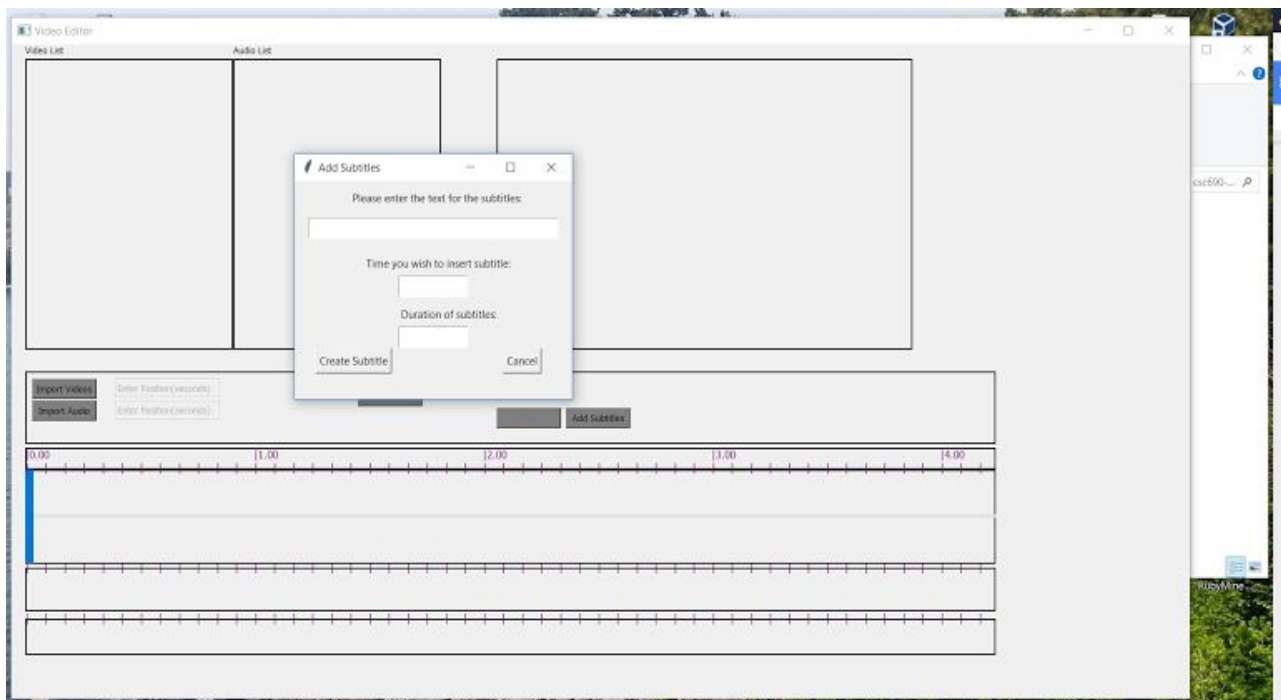
WireFrame



Current Application



Subtitle button pressed



Imported video and audio, subtitles added, video playing

