



VidEdit

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Outline

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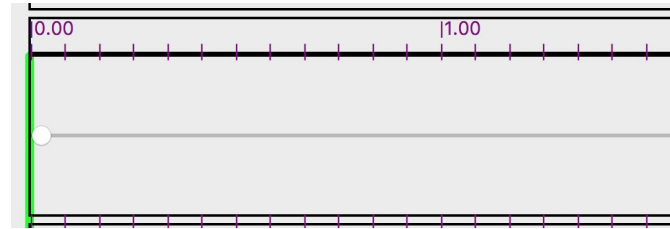
Use Cases

- User X wants to create their own video...
 - Import files(Video and audio)
 - Preview files
 - Place on timeline
 - Add subtitles
 - Playback of all placed files
 - Export the video



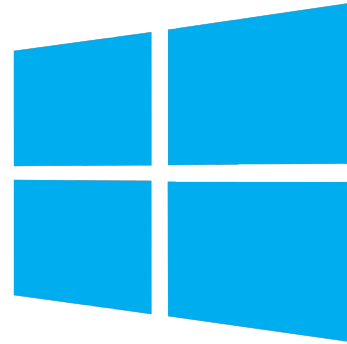
Description of Application

- Simple Video Editor
 - Create a project
 - Audio
 - Video
 - Subtitles
 - Playback



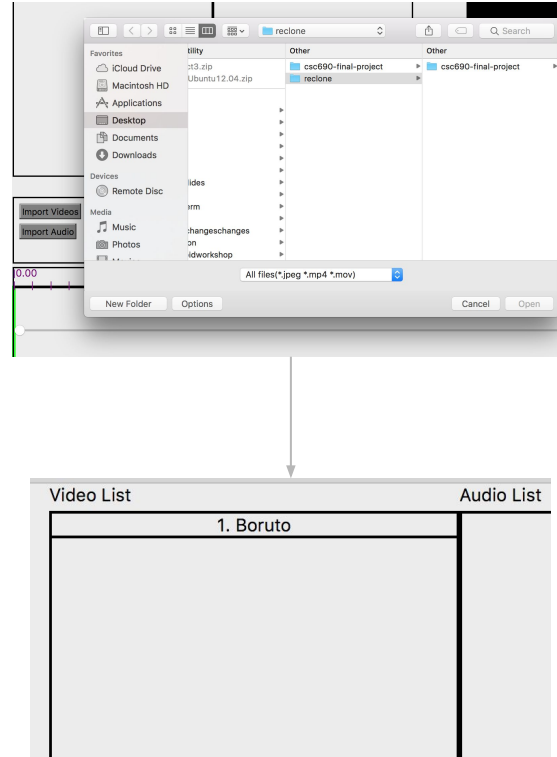
Software and Libraries Used

- PyQt5
 - To play videos and audio
 - Create subtitles
 - Creates view
- Ffmpeg
 - Adds subtitles to video
 - Merges Audio with video
 - Creates final video
- Platforms
 - Windows



Input Media Types and Operations

- Input Types
 - Video(.mov, .mp4)
 - Audio(.mp3,.wav)
- Operations
 - Edit
 - Annotate
 - Browse
 - Display



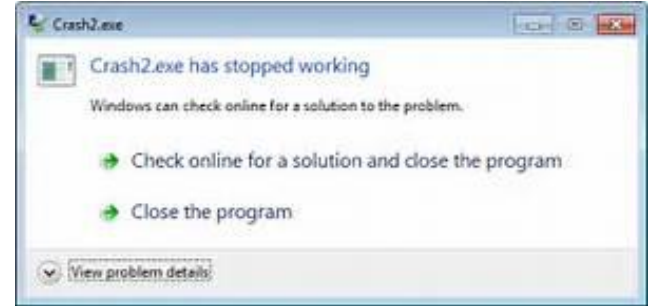
Operations cont.

- Users can save/export as...
 - Project files
 - Complete video
 - Srt is created

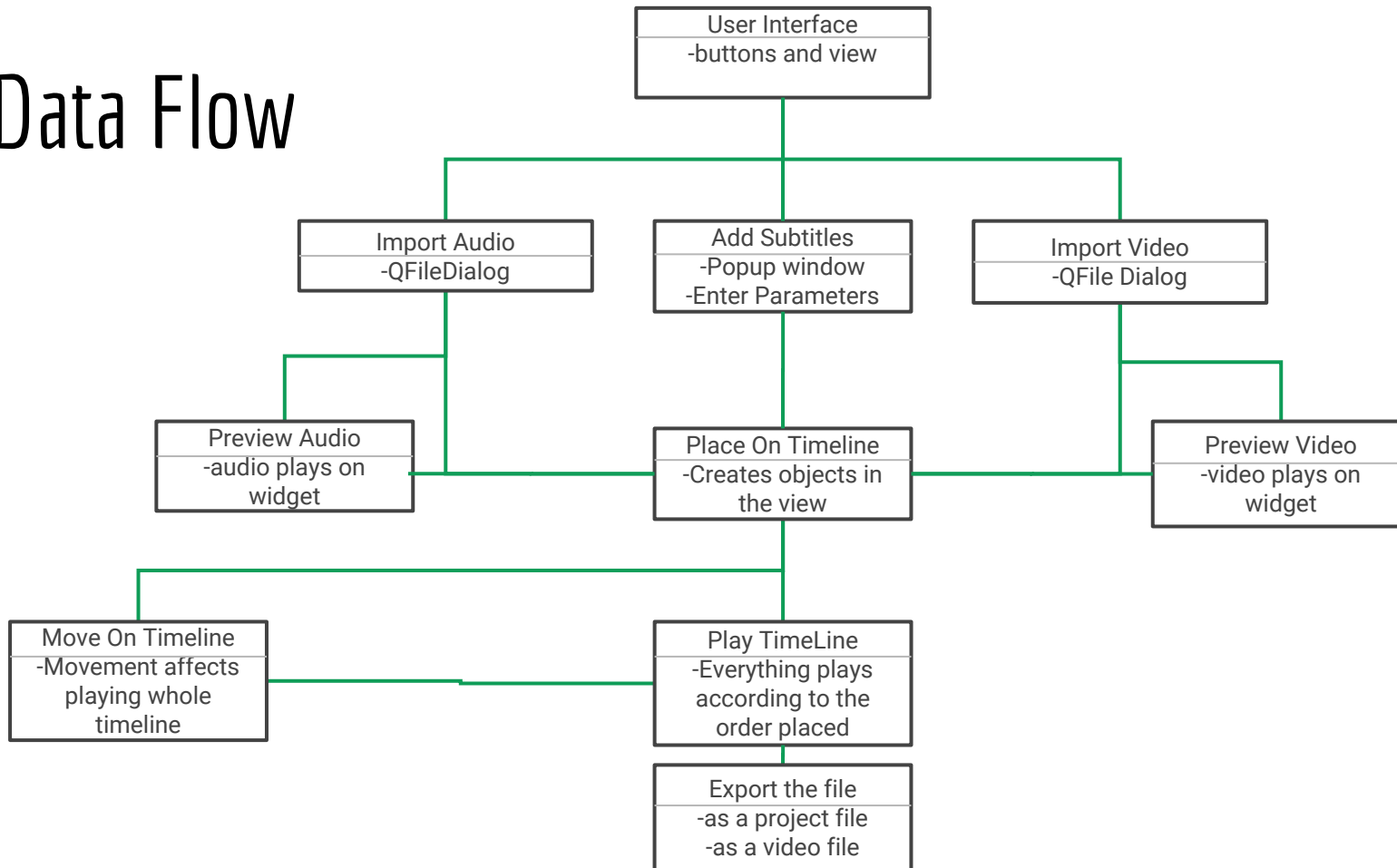


Problems We Had

- FFMPEG
 - Should use MoviePy instead
 - Bugs
 - Unable to merge videos
 - Slow
- Dual systems
 - Windows vs Mac
 - Used both to develop
 - Extensive testing
 - Windows codec problem

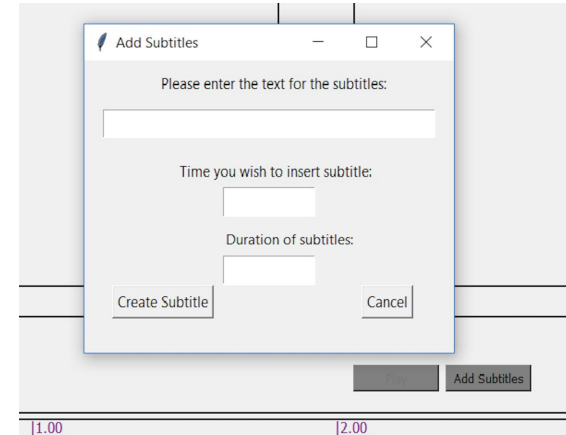
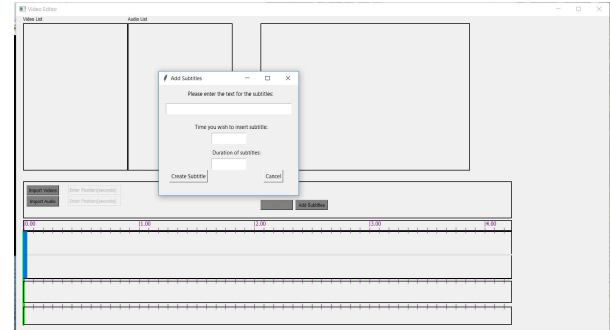


Data Flow



Evaluation

- What we have accomplished...
 - Importing of files
 - Preview of files
 - Place on timeline
 - Add subtitles
 - Playback of timeline
 - Implementation of FFMPEG
 - But.. ffmpeg fails

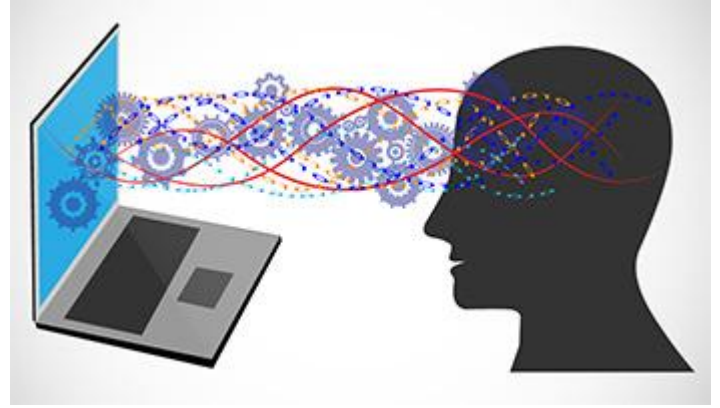


Attempt at Solutions

- Initially FFMPEG
 - Render the video before playback
 - Slow
- Revamped the timeline
- Too late to try another library

Conclusion

- Interesting project
 - What we learned
 - Difficulty of project
 - Thinking outside of the box
 - Accepting advice on QTimer
 - Also exclusion of drag and drop
 - Overall great experience



Website: <http://videdit.herokuapp.com/> ?