

Alumni Video Donations

Milestone 1

December 3, 2021

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CSCI 491 with Dr Nelson

Project Status

As of December 3, 2021, our team's SRS and Vision and Scope documentation has been completed. We met with our client, Filip Jagodzinski, periodically over the past quarter and have gained a good understanding of what he wanted out of the project. We coded and presented a proof of concept to our client and received feedback, as well as different styles of videos in which to test. The plan for our project going forward is to advance from a proof of concept to something that closely resembles our final product.

The idea for the project is to intake videos we film through sessions of students and faculty. They will sign a waiver and be instructed to say words or phrases. We will take the videos and pass them into our splitter program to edit the videos and pass them into a folder with the appropriate titles.

The splitter works by listening for specific silence length and splits the audio on a silence the minimum length or longer. The split video we refer to as snippets, which are stored in a folder based on its content. The minimum silence length is what we will use to direct the recording sessions by asking individuals to wait a certain amount of seconds between words or phrases.

Once our client wants to create the donation videos, they should be able to input a CSV file with alumni's name and grad year. The stitcher will randomly select a type of video to stitch and pull the required snippets created by our splitter program. It will then store the stitched video in a hashed URL, and store the alumni's name, grad year, and the URL in an output CSV. The output file will then be what the office accesses when they want to send the video donation emails to alumni.

Goals Met

- Completed all SRS documents
- Completed all Vision and Scope documents
- Recorded 12 short video clips used for testing a proof of concept program
- Wrote a basic video splitter in Python that takes one 30-second long 720p video and divides it into smaller clips based on audio gaps
- Wrote a basic video stitcher in Python that took 12 1-second long 720p video snippets and stitched them together into one long video
- Presented our two proof of concept programs to our customer, Dr. Filip Jagodzinski
- Chose a Zoomvid-6 ATUS/WWU rental camera to record videos for Winter Quarter
- Approximated run time of our program
- Approximated storage needed for our program, videos, and snippets

Goals Not Met

- Contact WWU Foundation and IRB about waivers for using student images
- Contact clubs for video pre edited snippets
- Set up recording sessions for students and faculty
- Test our program(s) on large sets of videos and snippets
- Finish the program
- URL hashing
- Create waivers
- Create tests for our program
- Create presentations for 492 and 493
- Test program(s) with CSV files
- Have client test the program(s)
- Arrange a storage location with Jagodzinski for our videos and CSV files
- Find a way to advertise the video recording sessions for CS Alumni and Faculty

Plan for 492

- Week 1
 - Begin development of a combined splitter and stitcher program that can split and stitch any number of given videos

- Contact WWU Foundation and IRB concerning the use of students and staff in videos
 - Find a secure and convenient place to store our output CSV files and video snippets with Dr. Filip Jagodzinski.
 - Plan sessions
- Week 2
- Continue development on program(s)
 - Create waivers
 - Start to look for students, staff, and alumni to start filming videos