

# Alumni Video Donations M7

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April 20, 2022

## 1 General Progress Report

The primary focus of our work since the previous milestone was to get every component of our program to run faster using multiprocessing. As of this writing, uploading, downloading, and video weaving have been implemented using multiprocessing and still needs to be stress-tested with large xlsx and csv files and individual video weaving tasks before being considered completed. Our website is now fully deployed online and has been reviewed by our customer and designed in accordance with WWU's typography standards. We have also begun to implement file I/O and error checking into our program so that it is easier to use for future developers and for the customer. We had previously believed access tokens upon uploading finished videos to Firebase were necessary to view the videos on the website, but with further testing and refinement of the website, we have found that is no longer necessary. The website is able to successfully fetch those videos from Firebase and render them on our webpage. Despite these accomplishments, there remains quite a bit of refinement to be done for the project before Give Day. The code in our code-test folder still needs to be migrated and narrowed down into two centralized files: weave.py and storage-access.py. There is quite a bit of placeholder code in our main() function of weave.py that has been logically split up into several smaller methods. The main() method will be removed once testing of those functions has been completed. Also, there remains a bug in our program that we have not been able to test if our changes have fixed yet. The bug is duplicate videos would be woven together, mainly which is contributed towards a path issue. Finally, the video content itself needs further enhancement by adding a credits list, additional Western branding, and personalization, in addition to undergoing further review by our customer until the desired results have been achieved. The user's guide for future developers of our project is partially complete, and this exhaustive reference will be uploaded to both our git repository and our Firebase account.

## 2 Team Accomplishments

- Finished basic multiprocessing for all program functionalities
- Finished the alumni website and deployed it online
- Program reads files in both CSV and XLSX format

## 3 Goals Met

- Finished multiprocessing
- Western Logos added to website
- Access tokens are handled
- Deployed website to Firebase Account
- Begin transferring redundant code from main() method in weave.py and dividing it into helper functions

- Normalize clip audio mid-process
- Test our program with our customer Filip Jagodzinski's sample excel file with 19 anonymized alumni
- Added file I/O and user input error handling

## 4 Goals Not Met

- Add Western logos to our video content
- Add Credits to our video content
- Clean all redundant and unused code
- Stress test our program
- Personalize videos and make them more aesthetically pleasing and accessible
- Migrate all code from test-csv.py into weave.py and remove the splitter.py program so that there will be only two program files remaining: weave.py and storage-access.py
- Completely migrate all back-up code out of the main() function in weave.py to make program more readable and efficient with multiprocessing
- Complete all video weaving bugfixes
- Thoroughly test multiprocessing and analyze runtimes

## 5 Updated Expectations

See section Quarter Plan below for more details

- Weeks 1-4:
  - Add multiprocessing
  - Refine videos
  - Add access tokens
  - Test on small amounts of videos
  - Clean up website and move hosting to Firebase
- Weeks 5-9:
  - Begin large scale testing
  - Continue to refine videos
  - Develop documentation further
  - Turn project into executable file
- Weeks 10-11:
  - Continue website cleanup
  - Prepare and give 493 presentations

## 6 Branch Description

- master - All the most current project work is pushed to this branch (testing code, planning documents, etc.). The code-test folder is being cleaned up soon so that all photo and video content exists solely on our Google Firebase account, wwucsgiving.
- MS-2 - All project work pushed before Milestone 2's date.
- MS-3 - All project work pushed before Milestone 3's date.
- MS-4 - All project work pushed before Milestone 4's date.
- MS-5 - All project work pushed before Milestone 5's date.
- MS-6 - All project work pushed before Milestone 6's date.
- MS-7 - All project work pushed before Milestone 7's date.

## 7 Quarter Plan

- Week 1 (Mar 28 - Apr 1)
  - Multiprocessing
  - Refine videos
  - Update CSV reference in program
  - ~~Add access tokens~~ (unnecessary for our project)
  - Test on videos 2-30 (with upload turned off)
- Week 2 (Apr 4 - Apr 8)
  - MS6 (Have access token working, make headway on multiprocessing)
  - Multiprocessing
  - Refine videos
  - Begin hosting website on Firebase
  - Test on videos 2-30 (with upload turned off)
- Week 3 (Apr 11 - Apr 15)
  - Multiprocessing
  - Refine videos
  - Refine website hosted by Firebase
  - ~~Test on videos 1000 (with upload turned off)~~ (Moved to week 4)
- Week 4 (Apr 18 - Apr 22)
  - MS7 (Have multiprocessing working and video content well organized)
  - Refine videos
  - Refine website
  - Begin development on an installable executable
  - Test on videos 1000 (with upload turned off)
  - Begin full scale testing (10,000 videos) (expected to take a while)
- Week 5 (Apr 25 - Apr 29)

- Monitor video making process (fix bugs)
  - Let client try product
  - Inspect output videos
  - Improve program
  - Refine videos
  - Refine website
  - ~~Begin development on an installable executable~~ (Moved to week 4)
- Week 6 (May 2 - May 6)
  - MS8 (Have begun refining documentation, ~~have website hosted by Firebase~~ (already accomplished), have an installable executable)
  - Full scale test again (10,000 videos) (expected to take a while)
  - Refine videos
  - Refine website
- Week 7 (May 9 - May 13)
  - Documentation
  - Refine videos
  - Refine website
  - Begin making the final videos (expected to take a while)
- Week 8 (May 16 - May 20)
  - MS9 (Have all the videos made and website finished)
  - Documentation
  - Monitor video making process
- Week 9 (May 23 - May 27)
  - Verify final videos
  - Videos sent out for give day (May 26)
  - Prepare for presentation
- Week 10 (May 30 - Jun 3)
  - Documentation
  - Use feedback to from give day to improve product
  - Present + watch presentations
- Week 11 (Jun 6 - Jun 10)
  - Watch presentations

## 8 Team Member Accomplishments

- Simone Davison - (Hours Worked: 19)
  - Added multiprocessing to weave.py.
  - Unit and integration tested along the way with small test cases.
  - Added handling for csv and xlsx files.
  - Added user input handling to weave.py:
    - \* Verify input is accessible.
    - \* Send the program to the proper helper function depending on the file type.
    - \* Prompt user for rows and verify if they are correct.
    - \* Verifies with user if it is okay to overwrite existing files.
- Andrew Lanum - (Hours Worked: 5 hours )
  - Updated website to be more visually pleasing
  - Began working on re-organizing video clips to differentiate between short and long messages
  - Started work on updating video visuals, text, and overall layout
  - Fixed weave program to normalize video audio levels
- Austin Morin - (Hours Worked: 11 hours, 50 minutes)
  - Debugged our deployed website.
  - Removed React functionality entirely from our webpack app due to excessive problems and overhauled the website as a webpack app.
  - Ran tests on the deployed website on multiple browsers and Google accounts.
  - Edited our site to accommodate copyright and WWU typography standards.
  - Did some Firebase organization to fix a path issue in our program.
  - Began cleaning weave.py's main() function