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Software Engineering Team Term Project:

Deliverable #4

**Introductions:**

For this week's deliverable, our team had to create 25 test cases and have our script read the test cases files, compare the test results and have the outcome of the comparison open in a HTML file.

**Process:**

For our framework, we had trouble finding functions to test for since the Amara framework had a myriad of import statements and circular dependencies which became quite an issue when trying to test single methods in the python files of the project code. However, there were two files in particular that had methods for testing for different file types that could be submitted as well as audio file types. We tested those thoroughly since our project deals with accessibility and subtitles for videos. Inside the filetype folder we tested guessExtension(), guessMimeType(), isTorrent(), isVideoFilename(), isAudioFilename(), isTorrentFilename(), and a few other methods to get our 25 test cases.

For the runAllTests script we ran into some trouble trying to get the python file to run to get the actual results. However, we did make a big improvement from the last deliverable because now we are recording our results with bash and then outputting the results to an HTML file to make it easier to view. The HTML file also automatically launches once the test cases are complete.

**Report:**

Finding usable test cases has been the hardest challenge for this deliverable as most of the files have a heavy dependency on django and docker imports which have been difficult to get set up to work properly, but we feel confident about getting it complete before the deadline. Scripting has not been as big of an issue as we had originally thought which is a huge positive for us.