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Software Engineering Team Term Project

Deliverable #3

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Introduction:

Our team has begun work on building a testing framework for the Amara project we selected. We've had a fair number of setbacks, from the project's constant updates causing our virtual machine to fail to build the project to the poor documentation for basically any part of the project, but we've found a decent number of methods that should be easily testable given the current state of the project.

Test Cases:

Test ID: 01

Description: Checks for appropriate file extension for torrent files.

Path to file: /project/unisubs/libs/vidscraper/

Component being tested: filetypes.py

Method being tested: isTorrentFilename(file)

Test input: "Torrent.what"

Expected Outcome: False

Test ID: 02

Description: Guesses Extension Type

Path to file: /project/unisubs/libs/vidscraper/

Component being tested: filetypes.py

Method being tested: guessExtension(file_description)

Test input: "video/quicktime"

Expected outcome: .mov

Test ID: 03

Description: Guesses Extension Type

Path to file: /project/unisubs/libs/vidscraper/

Component being tested: filetypes.py

Method being tested: guessExtension(video_description)

Test input: "video/x-matroska"

Expected outcome: .mkv

Test ID: 04

Description: Guesses Mime Type

Path to file: /project/unisubs/libs/vidscraper/

Component being tested: filetypes.py

Method being tested: guessMimeType(filename)

Test input: "test.mov"

Expected outcome: video/quicktime

Test ID: 05

Description: Guesses Mime Type

Path to file: /project/unisubs/libs/vidscraper/

Component being tested: filetypes.py

Method being tested: guessMimeType(filename)

Test input: "test.avi"

Expected outcome: video/x-msvideo

Report:

To start our testing, we are mainly focusing on filetypes.py in order to determine whether a filename and the extension is appropriate for an audio, video and torrent file. Overall, our tests are relatively simple given the scope of the project we selected, but such tests are still useful for big projects like this. These smaller methods are incredibly important to the overall function and security of the complete project.