Project Proposal (CSC-461)

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Image and Video File Type Conversion

1. What's the problem?

    The issue of having numerous file types is that some applications may require you to use specific

file types in their software. It is important to have methods to convert between file types to allow

people to use software easier.

2. What has been done?

    Current file conversion options tend to cost money, or are posted on insecure websites. You can

not always be too sure what you are downloading when installing the converted file.

3. My approach to this project is to begin with researching JPEG and PNG file formats. After doing this

I will begin implementing a file conversion program for decoding to a BMP file format and encoding

these common photo file types from a BMP format. Since I am only a one person team I think this is a

reasonable amount of work to accomplish for my project. There are multiple types of JPEG formats

and I would like to include as many as possible, but this will take a fair amount of time. Lastly, I would

like the program to display the steps to encoding and decoding these formats to the user, so you can

visually see what is going on. If I have the time after completing the decoding and encoding of these

file types, I would like to at least get some research done into MP3 and WAV audio file formats and

potentially begin the decoding steps of these formats.

4. I plan to deliver this on my GitHub page and use command line to run the program. By November

23rd (our update date) I want to have finished the JPEG decoder and encoder. After this I want to have

implemented the PNG encoder and decoder by December 4th. With any extra time I would like to

begin programming the decoder and encoder of some basic audio file types. Furthermore, if time

permits creating a GUI would be of interest too, but these will be bonuses to the project.

5. Website link: https://github.com/dustinjowsey/CSC-461_Project