**WhatsApp Chat Compiler**

I want a program to take a .zip file containing a text file \_chat.txt and all the associated media files and compile them into a .html file, properly formatted with the colours of dark mode (possible mode switching).

The program only needs to work for 1-1 private messages (maybe I’ll upgrade it to group messages later). There will be a lib folder containing configurable formatting rules and a background.png. The program needs to produce a .html file that can play voice messages (.opus files), videos (.mp4 files), music attachments (.mp3 files), and display photos (.jpg files).

Necessary features:

* Give the program a directory of a .zip file
* Copies .zip file
* Unzips copied file into temp directory
* Prog creates .html file, using \_chat.txt to create the texts
* Embeds photos, videos, audio messages, and stickers
* Uses /lib/ to create spacings, colours, background, and formatting
* Tells user that the .html file is complete
* Deletes temp folder & copied .zip file

Optional features:

* Progress bar
* Profile picture

Code Modules:

* Initial setup (copies .zip, creates backup, reads .zip)
* Whole message parser (gets date & time, sender, & text)
* Text parser to find formatting characters (underscores and asterisks) and replace them with the relevant HTML tags
* Text parser to
* Inserts text into .html file & moves to next message

Checks:

* Attachment-only messages ["<attached: ":">"]
* Underscores
* Asterisks
* Links “http”