The primary body of the program is menu.py, which runs the actual date and time selection process (or rather, will once the program is completely written). It is divided into four functions, three of which build and verify the files and the last of which starts the state machine that comprises the main loop.

Dependencies are pyaudio and readchar 0.7, which needed to be installed, and the time and wave libraries which come default with Python 3.

NOTE: readchar 0.7 requires minor tweaks both before and after installation to function on Windows devices. See the project guidelines for details.

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*create_sound_filenames()*:

The first function executed builds the relative paths for the various .wav files the program needs and sets the globals to be referred to later, then establishes a random .wav file to hold output files from concatenations.

*verify_sound_filenames()*:

The following function checks each path created earlier for validity. It also plays the last one checked, which is used for whichever sound should be played at the start of the program.

*create_menu_globals()*:

Sets up the keybinds, the instruction string, and the time tracker globals for reference by the state machine.

*run_menu()*:

Starts the state machine comprising the main loop. At the moment, it only recognizes Forward, Back, and Quit on a nonsensical series of hours. This is where most of the work remains to be done.

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The second significant file is sound.py, which provides functions related to the .wav files - namely, playing and concatenating. It is a fairly technically complex work, and should not be edited without very good reason.

The third major component are the myriad .wav files contained in the wav_files_provided directory and its subdirectories. Not all are used, but there's little point removing any until we're

sure we don’t need them anymore. The most important thing here is to note that any .wav file that needs to be concatenated needs to have the same parameters, including sampling and frame rate, as any other file it’s merged with.