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COMP.4110-201 Software Engineering I
Macro Buddy 2 — Requirements — Fall 2020

1) The Macro Buddy should have a Terminal Emulator (T.E.) embedded in it.
    1.1) The T.E. should always be active whenever Macro Buddy is on.
    1.2) The T.E should recreate the look and feel of a Terminal
    1.3) The T.E. should be able to copy the user's commands and store them for generating a macro later in the program's life.

2) The user should be able to record a session from the Terminal Emulator.
    2.1) The user should be able to start the session and stop the session on the macro buddy using the GUI buttons.
    2.2) The interface for the macro buddy should mimic the appearance and functionality of a real terminal.
        2.2.1) The user should be able to type and edit commands such as on a real terminal.
        2.2.2) The T.E. should have access to current working directory in order that it may execute commands.
    2.3) Entries will be captured from the terminal and stored in a file which will be later accessible in the macro grid.

3) The Macro Buddy should be able to generate an Macro from user input.
    3.1) After the user stops recording, MB2 should be able to process the input in order to generate a macro file.
    3.2) MB2 should create a macro supported by the user's OS.
    3.3) Once input has been recorded, the macro buddy should be able to successfully generate a macro file within at most two seconds using a 2.6 GHz processor.

4) A file organization system dubbed as "Macro Grid" will be used to organize the macro files into an ordered list of macros that will be displayed on the GUI.
    4.1) The macro grid should contain all the macros recorded by the user up to at least fifty individual macros.
    4.2) As new macros are recorded, they should be added to placeholder slots on the Macro Grid GUI layout.

5) MacroBuddy2 should maintain the ability to track its generated Macro files.
    5.1) All macros by default, will be stored within the program's directory.
    5.2) The program shall allow the user to load Macros from outside of the default directory.
    5.3) The program's tracking system shall be consistent and loadable across multiple sessions.