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COMP.4110-201 Software Engineering I

Macro Buddy 2 — Requirements — Fall 2020

- 1) The user should be able to record a terminal session.
 - 1.1) The user should be able to start the session and stop the session on the macro buddy.
 - 1.2) The user should be able to type and edit commands such as on a live terminal. This includes using the up and down arrows to access the command history.
 - 1.3) The interface for the macro buddy should mimic a regular terminal.
 - 1.4) Entries will be captured from the terminal and stored in a file, which will be later accessible in the macro grid.

- 2) The Macro buddy should successfully generate an automation script from user input.
 - 2.1) The user should be able to choose which directory they save it to.
 - 2.2) The user should later then be able to access the file directly from the macro grid.

- 3) There should be a button that is responsible for starting and stopping the session.
 - 3.1) The UI should give the user the option to parse the script immediately upon stopping or to simply stop recording.

- 4) The user should have access to the macro grid within the UI.
 - 4.1) The macro grid should contain all the procedures recorded.
 - 4.2) The macro grid should have enough space for the user to store at least fifty macros.

5) The Macro buddy should be able to generate the macros quickly and autonomously if the user requests it.

5.1) Once input has been recorded, the macro buddy should be able to generate a script within at most two seconds for a 2.6 GHz processor.

6) The working directory of generated scripts will be determined by contextual clues at the time of recording.

6.1) All scripts, by default, will be executed in the directory from where they were originally recorded.

6.2) To prevent confusion on the user's part, if a script is moved out of the location where it was recorded, it cannot be edited or ran until it is returned to its original macro grid directory.

7) The interface should be simple and intuitive for the user to operate.

7.1) A non-designer, such as a child, should be able to run the macro buddy with relative ease