



Overview of Macro Buddy 3

Software Engineering COMP 4110
University of Massachusetts Lowell
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Team members:

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Customer: Linux users

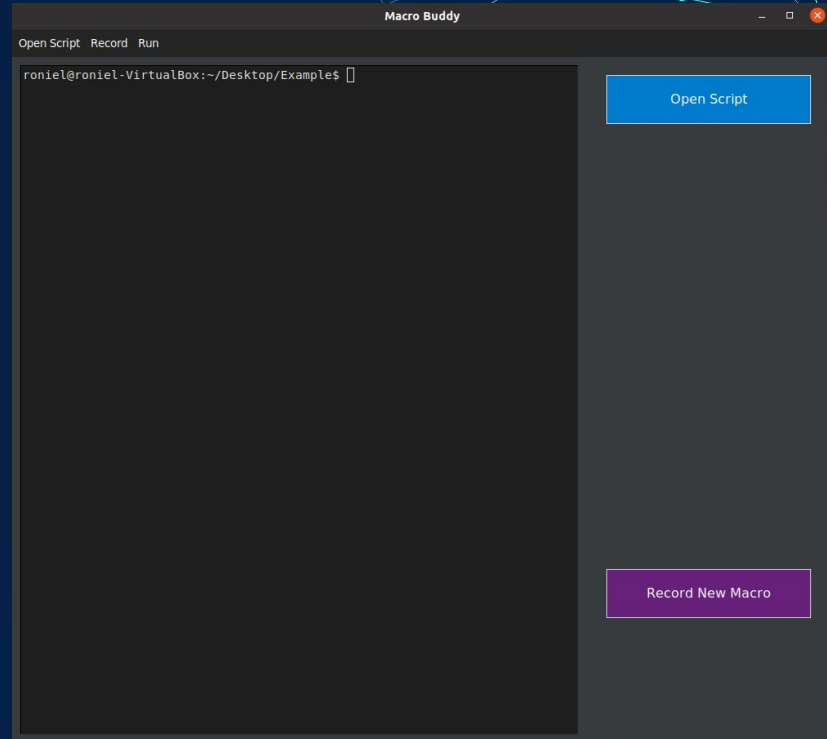
Instructor: Dr. James Daly*

*Please direct all inquiries to the instructor.



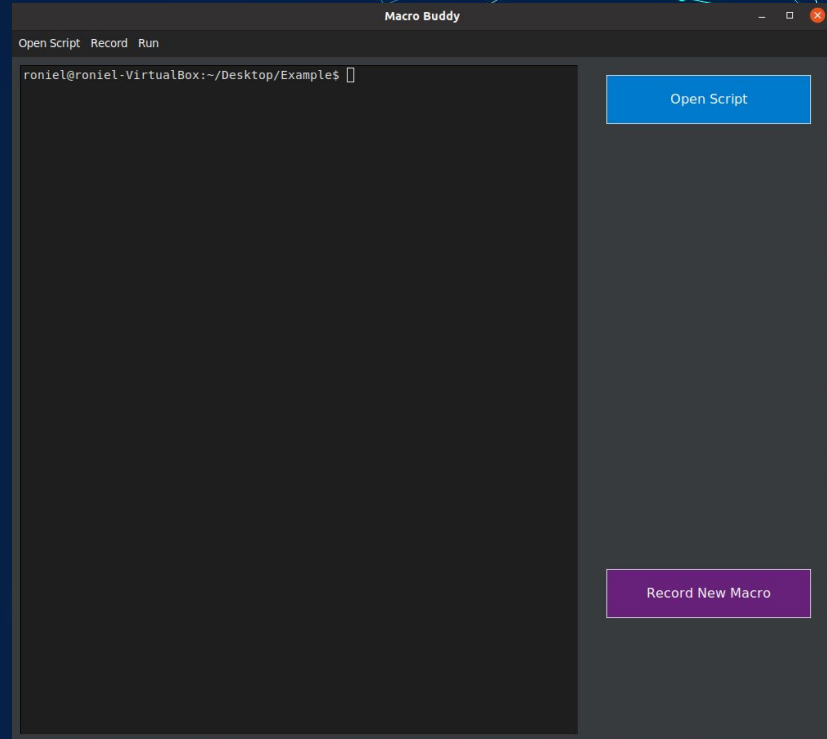
Project Overview

- Application provides users a seamless transition between terminal use and shell script writing



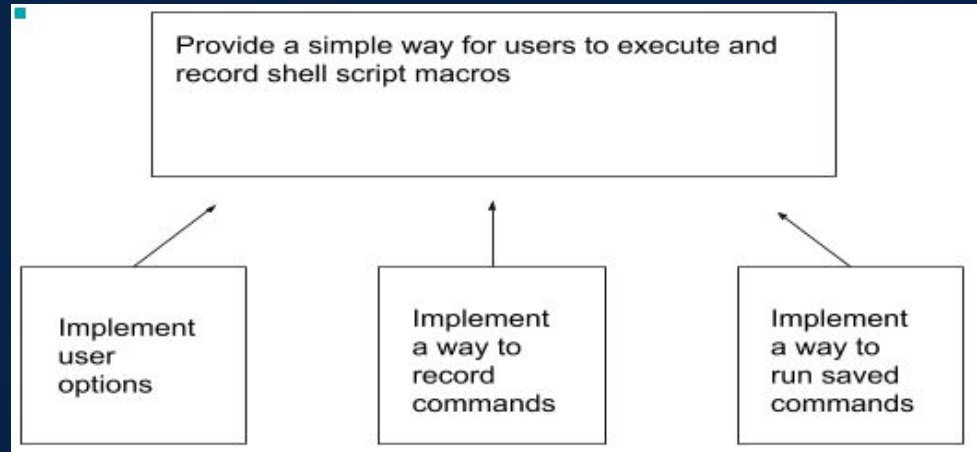
Project Overview

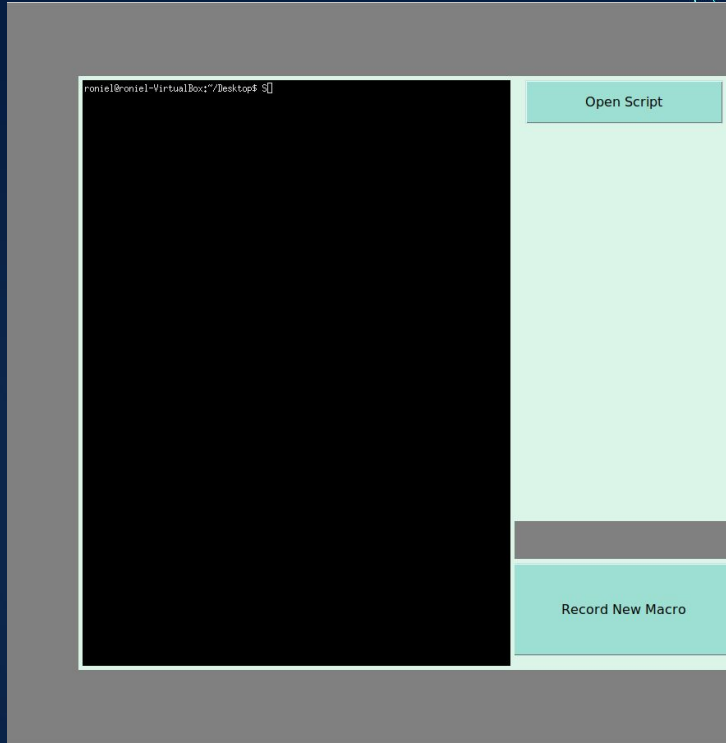
- Motivation for project
 - To assist users who find writing shell scripts tedious and/or daunting
 - Facilitates organization of shell scripts



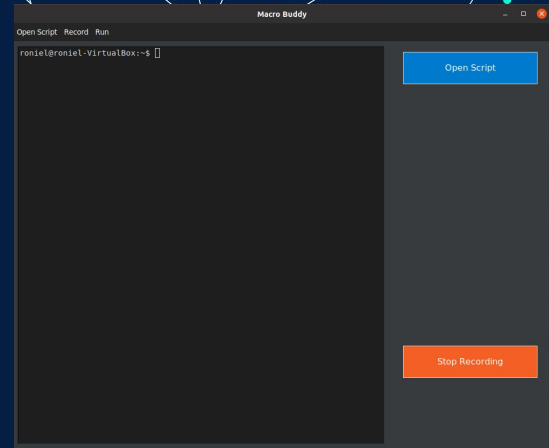
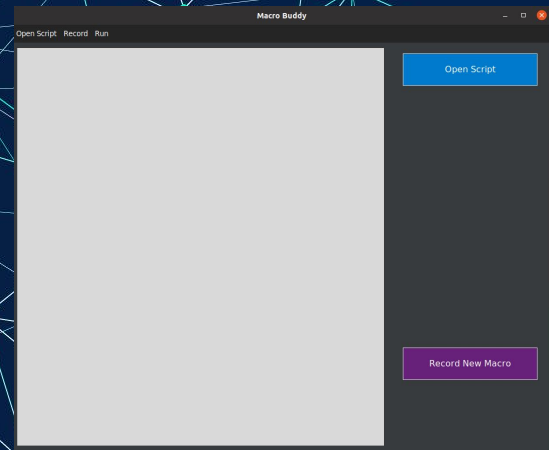
Overview of Features

- Script recording
 - Fully-functional terminal for easy scripting
- Script editing
 - Allows user to fix mistakes/ delete user input, etc.
- Script running
 - Gives a GUI button option for executing saved scripts





Prototype v1



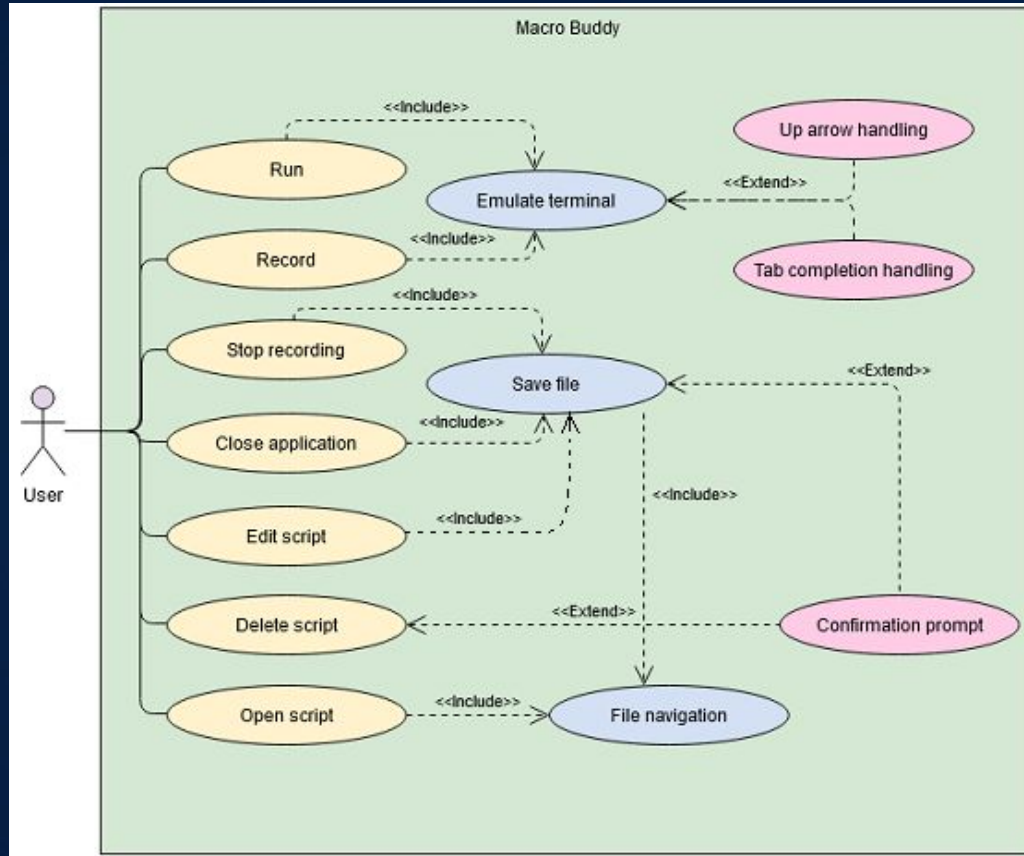
Prototype v2

Domain Research

- Investigated into users that frequently use shell scripts and find themselves executing the same files
- Needed to apply domain knowledge on Unix shell script users
- Project Constraints
 - The user is expected to use a Unix-based terminal
 - Macro Buddy scripts are constrained to the shell configuration in the terminal
 - Any shell script files used in this application must be saved in the parent directory of the application



Model-based View of System: Use Case Diagram



Record New Script

- User hits Start Recording
- User Types Commands
- User Stops recording and saves script

```
roniel@roniel-VirtualBox:~/Desktop/Example$
```

Record New Macro

Stop Recording

Save

Cancel

Open Script

- User hits Open Script Button
- Edits an already made script or start a new one
- Can then run script

Open Script


Run

```
File Edit
^ #!/bin/bash
ls
cd ..
emacs helloworld.cpp
```





Acknowledgements

- We gratefully acknowledge and appreciate the participation of our customer, Dr. James Daly from University of Massachusetts Lowell.
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Questions