

CS214 Systems Programming Spring 2023

Project 2: My shell

Partners

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For Use

cd into directory containing files: makefile mysh.c testmysh.txt

\$ make (or sudo make)

\$./mysh

Testing Philosophy

For this assignment, we broke down all the requirements needed and gave ourselves a list to cover for our code. Starting from the most simple we built up to the more advanced parts of this project. Our project consists of taking in input from the user, breaking down the text into tokens, and applying the proper command.

To test our code, we created one file “testmysh.txt” that contains all the test commands we used to ensure successful progress on this assignment. With each command on a new line, immediately our terminal enters batch mode and completes each line of input one by one. After, we copied each line individually for use in interactive mode to see if our project worked successfully under these circumstances. Starting with bin functions, these are provided by functions that we ensure we have coded properly to work within our program. Next, we test that our code is able to perform file redirection and wildcards. Next we test whether our program can move back and forth between the directory. Lastly we test escape sequences and successful termination of the program.

```
echo hello
ls
cd
pwd
echo hello > redirectTest.txt
*.txt
cd ..
pwd
\\
\\n
exit
```