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4 BS CpE

February 13, 2023

Project 1 Third Progress Report

Rudimentary Shell Interpreter

Command Interface Overhaul

New lines of code were written that interact with the input commands of the user. Each command is parsed depending on whether or not there exists an operator ">". Normally, the output is displayed after the command is sent. With the ">" operator, the output is sent to whatever output text file there may be.

```
(base) jaym1@Joshuas-Mac-mini engg126-project1-cck % '/Users/jaym1/Library/CloudStorage/GoogleDrive-joshua.kempism1@gmail.com/My Drive/ENG G 126/engg126-project1-cck/project1'
$ ls
Command: ls
ENG G 126 - Project 1 Final Report DRAFT - KEMPIS.pdf
ENG G 126 - Project 1 First Progress Report - KEMPIS.pdf
ENG G 126 - Project 1 Second Progress Report - KEMPIS.pdf
draft
draft.cpp
draft.dSYM
project1
project1.cpp
project1.dSYM
shell-interpreter.cpp
```

```
• (base) jaym1@Joshuas-Mac-mini engg126-project1-cck % '/Users/jaym1/Library/CloudStorage/GoogleDrive-joshua.kempism1@gmail.com/My Drive/ENG G 126/engg126-project1-cck/project1'
$ ls > out.txt
Command: ls > out.txt
```

```
ENG G 126 - Project ...
out.txt U
project1 M
project1.cpp M
~/Library/CloudStorage/GoogleDrive-joshua.kempism1@gmail.com/My Drive/ENG G 126/engg126-project1-cck/project1
```

```
draft.cpp  project1.cpp M  out.txt U x
out.txt
1 ENG G 126 - Project 1 Final Report DRAFT - KEMPIS.pdf
2 ENG G 126 - Project 1 First Progress Report - KEMPIS.pdf
3 ENG G 126 - Project 1 Second Progress Report - KEMPIS.pdf
4 draft
5 draft.cpp
6 draft.dSYM
7 out.txt
8 project1
9 project1.cpp
10 project1.dSYM
11 shell-interpreter.cpp
12
```

Conclusion

The project as of the moment is around 60% complete. Implementation for the “<” (input) and “|” (pipe) operators are currently being implemented

Task	Description	Status
Project Research	Search and familiarize UNIX based commands and how virtualizing a shell would work in a C++ program	DONE
Preliminary Code Implementation	Begin Coding the basic structure of the project	PARTIAL
Basic Input Commands	Recognize basic user inputs in the program loop. Implement a user-input termination command.	PARTIAL
Output & Feedback	Produce feedback and outputs in the program	ONGOING
Debugging	Code polishing	TBD