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OS Simple shell

COSC 4302 Dr. Bo Sun

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**Shell Project Report**

The penultimate assignment for this class was to design and implement a simple interactive shell able to run on a Linux platform. The shell is required to prompt the user for a command, parse the command, and then execute it. This proved to be a unique challenge that our team rose to greet, and conquer, with excess enthusiasm.

Running the program

Our shell is written in C, and as a prerequisite, you will need access to a Linux system and a C compiler. Before attempting to run, make sure that you have downloaded all files:

* shell.c
* minishell.h

Next open the terminal. You can compile the program using one of the following commands: cc, gcc, or make. This will allow the program to properly execute. Finally, you can run the program after compilation via the following.

$ make

$ ./shell

You will now be greeted by a prompt window ready to receive commands!

Implementation

- Written in C with no dependencies

- parsePath() runs on initial program launch

- User input loop is entered, inside loop

- user enters command

- command and arguments are parsed then searched for, it will either fail with an error message or run the given command as a child process

Bugs

As of our final testing phases, we are happy to report that we have not encountered any noticeable bugs. Initially we had run into critical problems with path navigation and the prompt display, but Kalan Bonnette and Ryan Campbell were able to fix this. Our program now works and meets all assignment requirements