Project 1 Unix/Linux Command Line Interpreter

CST-315-99 (Operating System)

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**Project Description/ Design Explanation**

Within this project, we were tasked improving our Linux command line interpreter.

**Approach/ Concept Analyses**

The most valuable function in the code is the “system()” function. Getting the user’s input is easy enough on its own, however interpreting their input has the potential of being very difficult. Luckily, the “system()” function is a function that is included in the default packages for C++ that interprets the inputs for the program and runs the corresponding executions in Linux for us.

**Algorithm/ Implementation**

The algorithm implemented into the code takes the input from the user, executes their commands, and then checks to see if their input includes the “quit” command. If there is no quit, then the program takes more inputs, but if there is a quit, then the program exits. The improvements made have not altered the general structure of the algorithm.

Diagram

Description automatically generated

Yes

No

**Test and Validate**

Within the improvements made to the previous version of this project, I was able to eliminate the previous error where a message was printed when quitting the program that stated that quit was not a command. Additionally, I was able to add the “pwd” and “ps” commands.

