Assignment 2: SimpleShell in C

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Contribution by Aakarsh:

1. Contributes code to launch and primary function
2. Handled pipes
3. Handled History
4. Handled error handling and

Contribution by Kshitij:

1. –

Working of the code:

1. History:
2. A data structure was made to store the command argument, pid, start time, end time, and duration
3. A function was made to save data into the history data structure
4. CheckForAnd: This function is to help spot the ‘&’ symbol in the command argument
5. Launch:
6. Timers are started and pid is initialized with the fork() command
7. We then join the command-argument with a string using strcat()
8. After the concatenation of the string, we then compile the string using the system() function
9. Then we wait for the parent’s process to get completed
10. After the above procedure is done, we call the history() function defined above to save necessary data
11. Necessary error handling is done whence compiling
12. Main:
13. Limitations of the code:
14. Allows input size to be max of 1024
15. Only 100 arguments can be stored in history
16. Commands not supported:-
17. –
18. --