Assignment 1: Stallion Shell



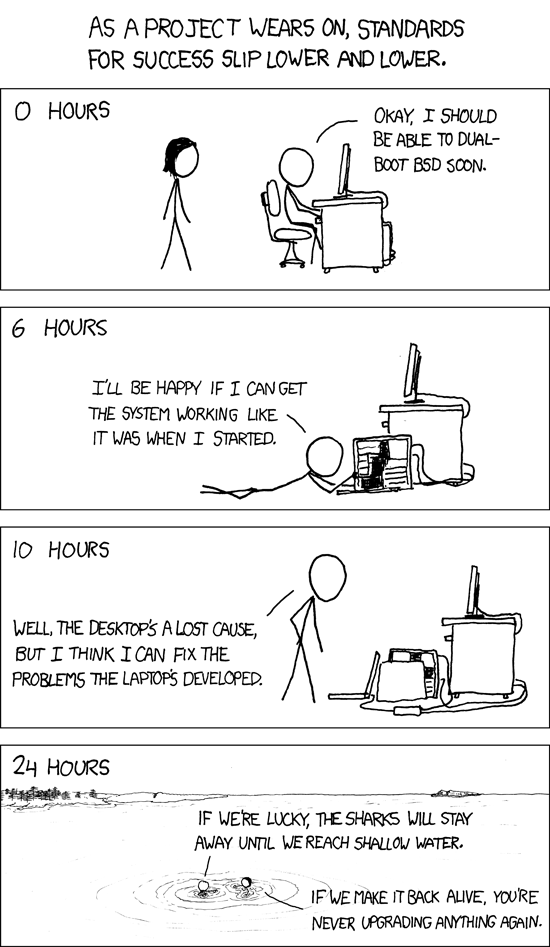
COP4610

Taylor Brockhoeft

David Perez

Design

Development Journal



9/2: Taylor created GIT repository with README for the project. Initial meeting to brainstorm ideas and delegate responsibilities.

9/3-9/8: Project began very well. Had two meetings or so in this time period and Taylor began most of the initial work on the prompt and setting up the backbone for the program, completing the prompt and the I/O on 9/7.

9/9: Part of the shell built-in utilities (mostly Exit and an early partial version of cd) were completed by Taylor.

9/10: Parser begun by Taylor, and David began looking into assembling the path strings in order to execute program binaries. Progress then stalled for a few days, as we both focused on our other classes and assignments for the rest of that week.

9/12-9/14: Mostly worked apart on our separate responsibilities. Taylor rewrote and completed the parser, and David got a decent working attempt at building the strings with the paths and executing simple binaries.

9/15: Taylor rewrote parsing function and restructured part of the codebase, as there were existing issues due to commands not null terminating.

9/16: David began looking into background execution and thinking about how to restructure processing the commands to allow easier attempts at implementing piping. Taylor began I/O redirection, but still had issues toward the end of the day.

9/17: Attempt at restructuring processing had to be shelved, glaring issues with getting even the most basic functionality to work after attempting to change things.

Division of Labor

Taylor: Prompt, Tokenizing input, Cleanup, Built-in utilities, IOACCT, IO Redirect, Pipelining, Readme.

David: Report, Background Processes, Processing Binary Commands, Readme.

Missing Functionality

Suggestions for Assignment Write-up

Overall, the assignment is very well written and structured for students to learn some of the initial concepts of the class. The project is a decent introduction/refresher on C, so there really isn’t much room for improvement. Perhaps there should be a mini project or homework assignment to get a bit more practice with C before throwing us into the assignment. The features and requirements of the project are enough to keep us busy throughout the two week period in which we have to complete the assignment.