## Unix - Shell

This is a simple shell implemented using C++.

## Commands

- . The internal shell command "exit" which terminates the shell
  - · Concepts: shell commands, exiting the shell.
- · A command with no arguments
  - o Example: Is, cp, rm ...etc
  - o Shell must block until the command completes.
  - o Concepts: Forking a child process, waiting for it to complete and synchronous execution.
- A command with arguments
  - o Example: Is -I
  - o Details: Argument 0 is the name of the command.
  - Concepts: Command-line parameters.
- . A command, with or without arguments, executed in the background using &.
  - o Example: firefox &
  - Details: In this case, Shell executes the command and return immediately, not blocking until the command finishes.
  - o Concepts: Background execution, signals, signal handlers, processes and asynchronous execution.

