

Assignment 1: Design

10/20/17

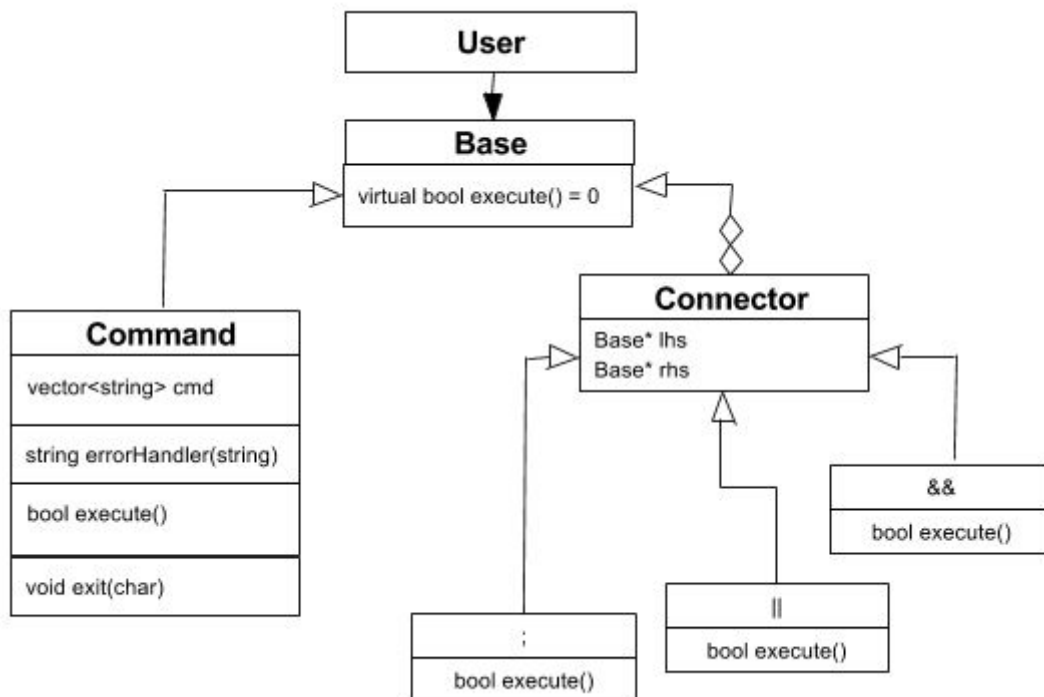
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Introduction

We are creating “bash” like program that’ll take execute system bash commands. We will have base class, an command class and a connector class. The base class is the parent class and command and connector classes are the child classes that inherit from base class. The command class will take in the user’s commands and execute system calls. There will be special exit function to exit our bash and errorHandler class to display errors. The connector class combines commands that are separated by ;, ||, or && symbols.

Diagram



Classes/Class Groups

Base class

- Parent class with an pure virtual bool execute function

Command Class

- Has a vector of strings for the commands the user enters

- Has execute function to execute commands
- Has an error handler function with a string parameter to print out error statements if there are errors in the commands
- Has an exit function with a char parameter to exit out of rshell

Connector

- Has left hand side(lhs) variable and right hand side(rhs) variable for multiple commands that are separated by ;, ||, &&

Coding Strategy

1. We will be working on separate functions and classes on weekdays.
2. Test every couple of functions to make sure they are working
3. Test and integrate code on weekends.
 - a. Fix merge conflicts
 - b. Create more commits

Roadblocks

1. Allocate time on weekdays and weekends to work on the assignment
2. Always pull before making changes
3. For merge conflicts
 - a. Check each other's code and keep the working portions up to date
4. Write good commit messages and push commits
5. Write good comments for better readability
6. Let each other know what portion of the code we are working on