

Assignment 1: Design

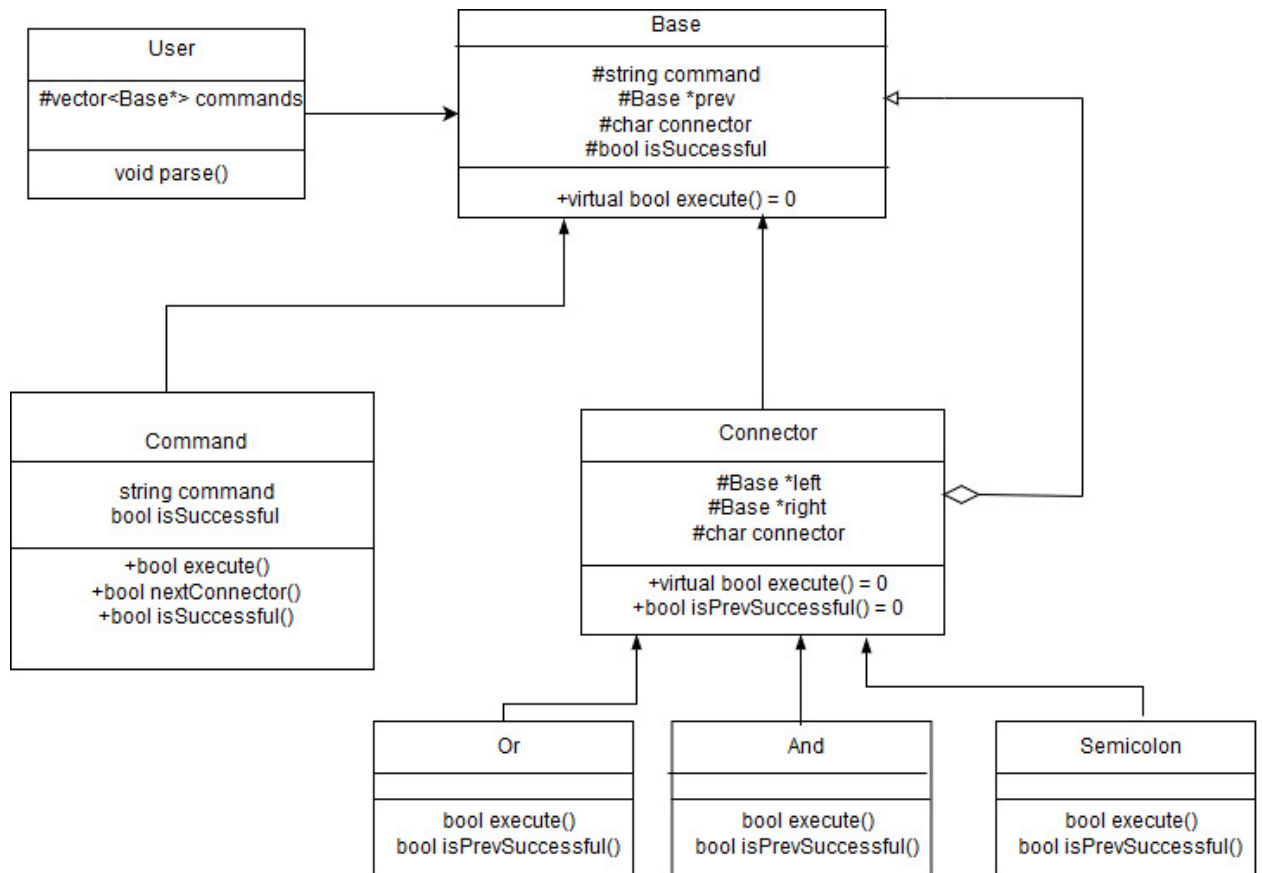
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Introduction

- Function input – takes in command line argument inputs and stores them as strings in a vector
- Function analyze – Takes in vector of input strings and converts strings to Command objects and return a vector<Command*>
- Function execute – Takes in vector of Command objects and executes each command based on each specific command



Classes/Class Groups

Base class

- Bool execute() function executes command
- bool execute() executes command
- char nextConnector() return the next connector in the inputs
- bool isSuccessful() returns if execution of current command has finished successfully

And

- bool isPrevSuccessful() returns if previous execution has finished successfully
- Run execute function if isPrevSuccessful() returns true

Or

- bool isPrevSuccessful() returns if previous execution has finished successfully
- Run execute function if isPrevSuccessful() returns false

Semicolon

- Runs execute every time

Coding Strategy

- Both of us work on Base Class together before moving on
- One person codes the evaluation of the commands
- The other will code the execution of commands
- Merge and test code
- One works on helper functions
- One sets up googletest
- Both of us make tests together and fix any bugs

Roadblocks

- Evaluation and execution of commands may be difficult, but we will consult with each other if needed.
- Making sure we can think of every edge case possible may be difficult. We will collaboratively think of edge cases to test.
- Changes to original plan may arise. Improvising and modification will help us to finish.