

Assignment 1 : Design

October 18, 2017

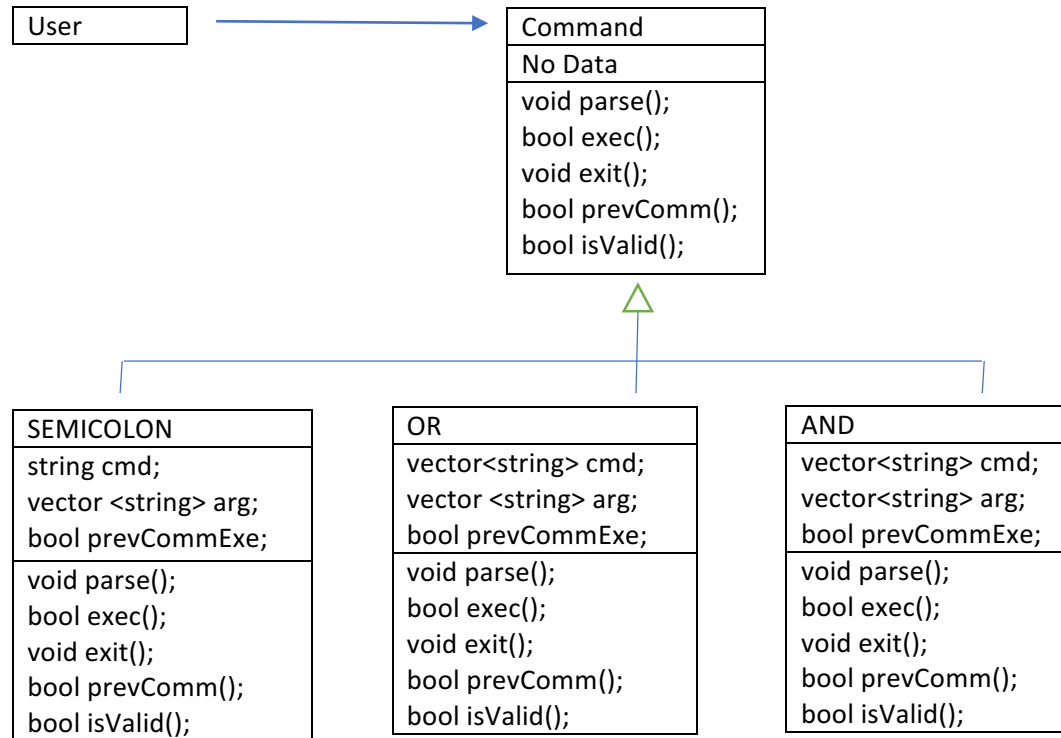
Fall 2017

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## Introduction

This design utilizes an abstract class called command, with two classes OR and AND as inherited container subclasses, and another inherited class called SEMICOLON.

## Diagram



## Classes/Class Groups

The command class will be an abstract class that has the methods that every command should need; every other class will inherit from this.

SEMICOLON will be a class that always executes the commands, if the command itself is valid.

AND will be a class that has a vector of commands, and a vector of arguments, both parsed through the parser. The execute command should have short circuit evaluation, where if the first test is true the second test will not execute.

OR will be a class that has a vector of commands and a separate vector of arguments, which is parsed using the parse command. The execute command will have short circuit evaluation, like in the AND class, however if the first test tests true, it will not execute the second test.

## Coding Strategy

Each partner will take one of the container class, after we collaboratively work on the first class to work out all the potentially problems that may happen along the way

## Roadblocks

Keeping track of the previous commands may be a problem, along with the general organization of the code. The parsing may also be challenging, because we have to distinguish where there are certain commands and how they are linked together.

## Epics

As a shell user, I want to execute one or more commands through command line in a certain order or consecution.