

CSC 413 Project Documentation

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CSC 413-02

<https://github.com/teflantwan/anthonyr.git>

Table of Contents

1	Introduction	3
1.1	Project Overview	3
1.2	Technical Overview	3
1.3	Summary of Work Completed	3
2	Development Environment	3
3	How to Build/Import your Project	3
4	How to Run your Project	3
5	Assumption Made	3
6	Implementation Discussion	3
6.1	Class Diagram	3
7	Project Reflection	4
8	Project Conclusion/Results	4

1 Introduction

1.1 Project Overview

This project is designed to test our understanding on classes, security, implementation, and effectiveness. I was to use my programming skills in order to finish an evaluator class to calculate infix expressions that were given in the program. In addition, with the evaluator class, I am to create operand classes for each operand, addition, subtraction, multiplication, division, and power.

1.2 Technical Overview

In order to have the most effective and secure classes, I was to put my knowledge of security and implementation to make these classes secure so that no information that is not supposed to be leaked, is safe. And also making these programs effective, in order to have a fast program using the least amount of memory.

1.3 Summary of Work Completed

In the program I completed, I was able to run each of the tests successful except for the "EvaluatorTest." I added a class for each operand that contained a priority for each operator and an execute function that will find the answer given both operands.

2 Development Environment

The version of Java is used was Java 9 on IntelliJ IDEA platform.

3 How to Build/Import your Project

Importing this project is very simple by cloning from Github and running on any Java IDE.

4 How to Run your Project

Running the project can be done by the test folder in the zip of folders. It has each test for each operator and each class we were to fix in order for the program to work correctly.

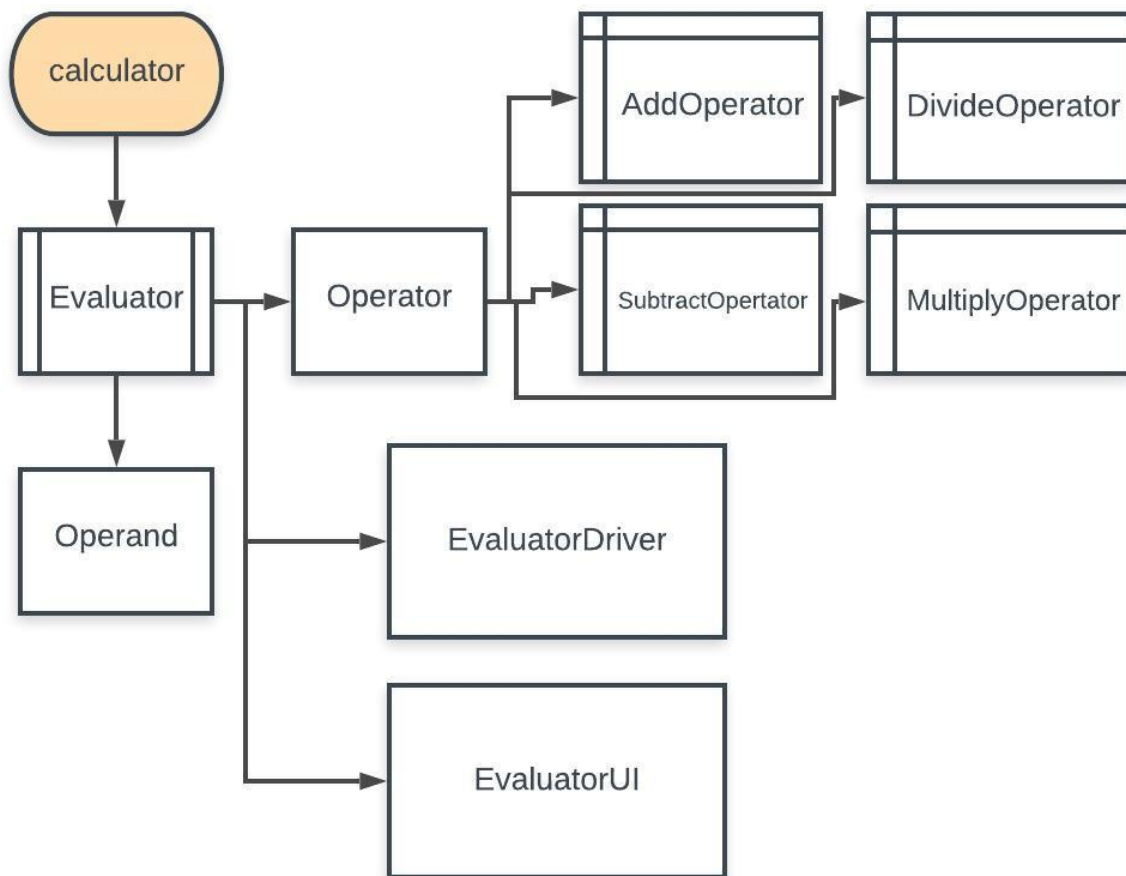
5 Assumption Made

My assumptions were that this was going to be a much more difficult assignment. Given what we cloned, it wasn't hard to implement what I knew in order to get where I am turning in this assignment.

6 Implementation Discussion

6.1 Class Diagram

Encapsulation is a big part of this assignment. Making sure only what needs to be used or seen is able to be found and whatever should not be, is hidden.



7 Project Reflection

Time management had a big reflection on what I could finish and what I couldn't finish. I was able to use what I knew and also get help for what I didn't know. In order to finish the complete assignment, I need to be able manage my own time to give myself enough time to learn what I need to learn for each assignment.

8 Project Conclusion/Results

The results are I was not able to finish the complete assignment but was able to finish enough from what I knew. I hope that I can still get the help I need to eventually finish the assignment even after it is due for my own knowledge.