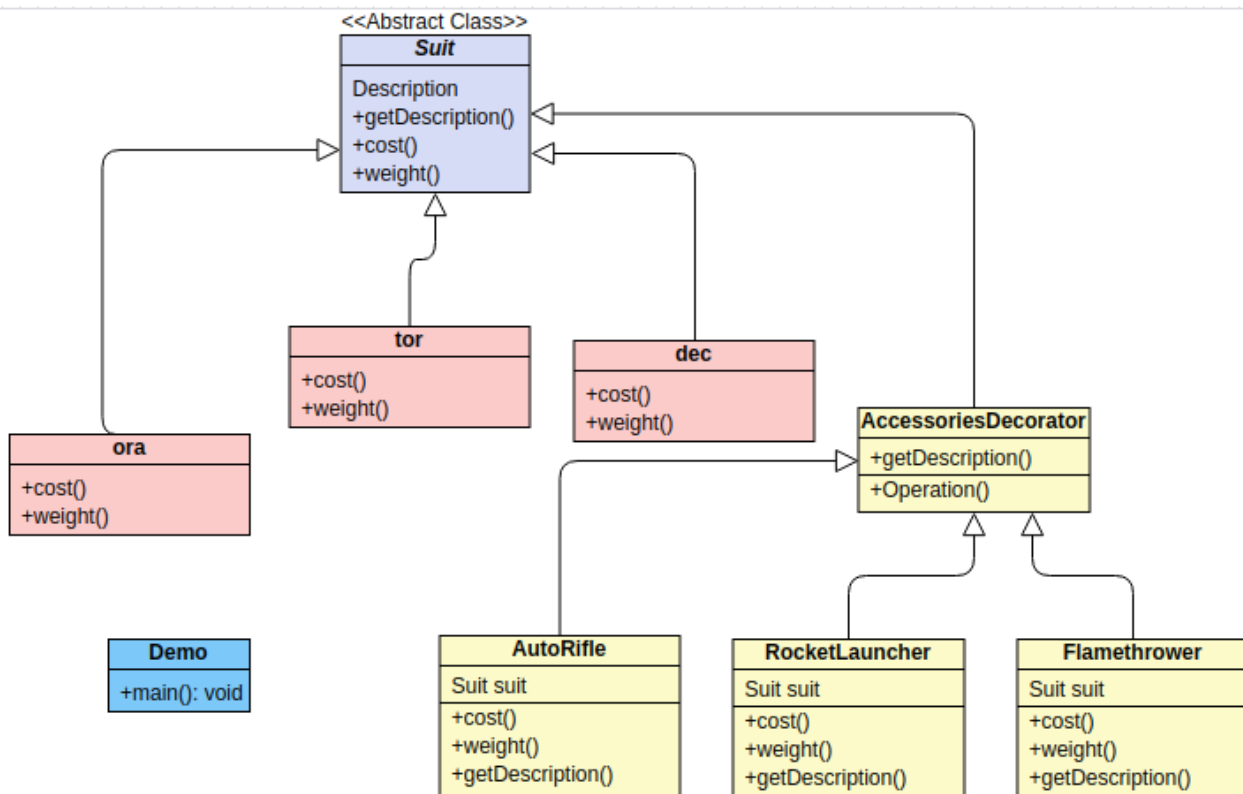


CSE443 – Homework 1 / Part 3 Report

We will design a company specializing in the design and production of exoskeleton armored suits for military personnel, equipped with various custom weapons. A customer can demand any custom combination of accessories: such as a dec suit with 1 flamethrower, 2 automatic rifles and 1 rocket launcher.

The Decorator Pattern is a design pattern that allows behavior to be added to an individual object, dynamically, without affecting the behavior of other objects from the same class.

So, if we use Decorator Pattern in this project, we can easily find the total cost and total weight.



Suit is an abstract class. It keeps general information and methods for a suit or accessories. Ora, tor and dec are basic types of suits. These are concrete classes and they have their own cost, weight and description.

AccessoriesDecorator is a base for accessories.

AutoRifle, RocketLauncjer and Flamethrower are concrete classes. They all keep a suit object to calculate total cost, total weight and total description.

This design is flexible and very efficient to accommodate new suits an accessories.