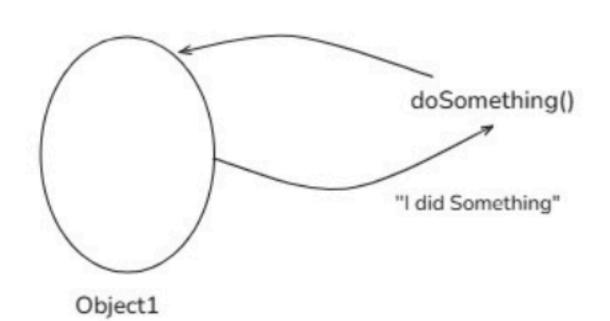
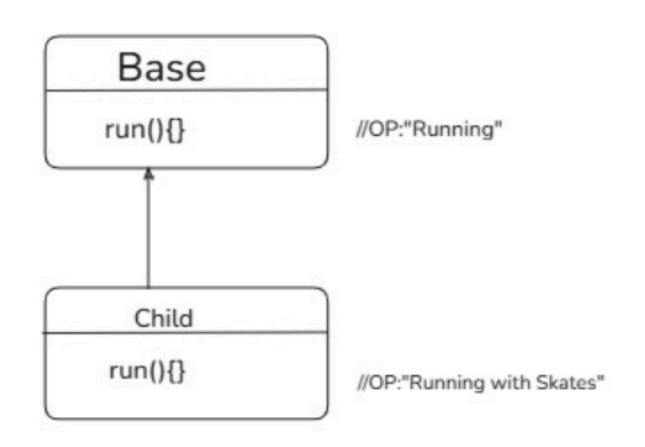
DECORATOR DESIGN PATTERN

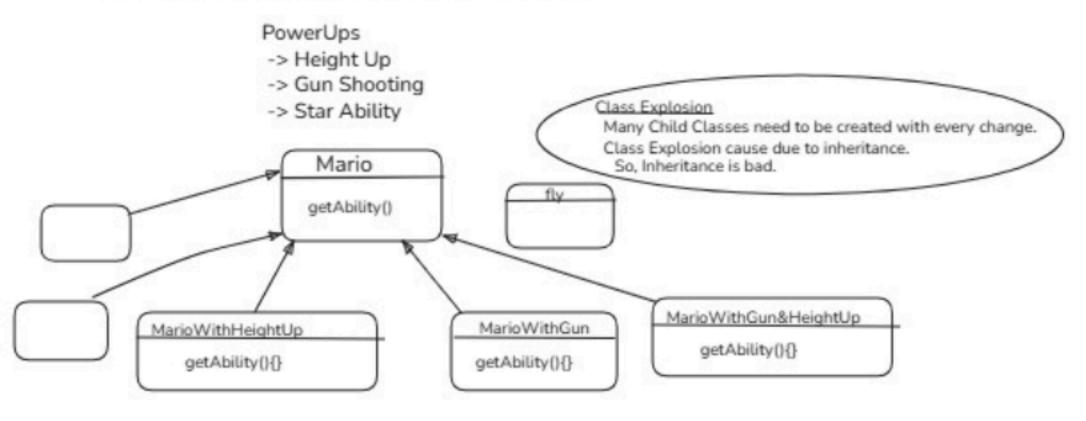


• provide additional responsibilites (functionalities) at runtime by Object1.

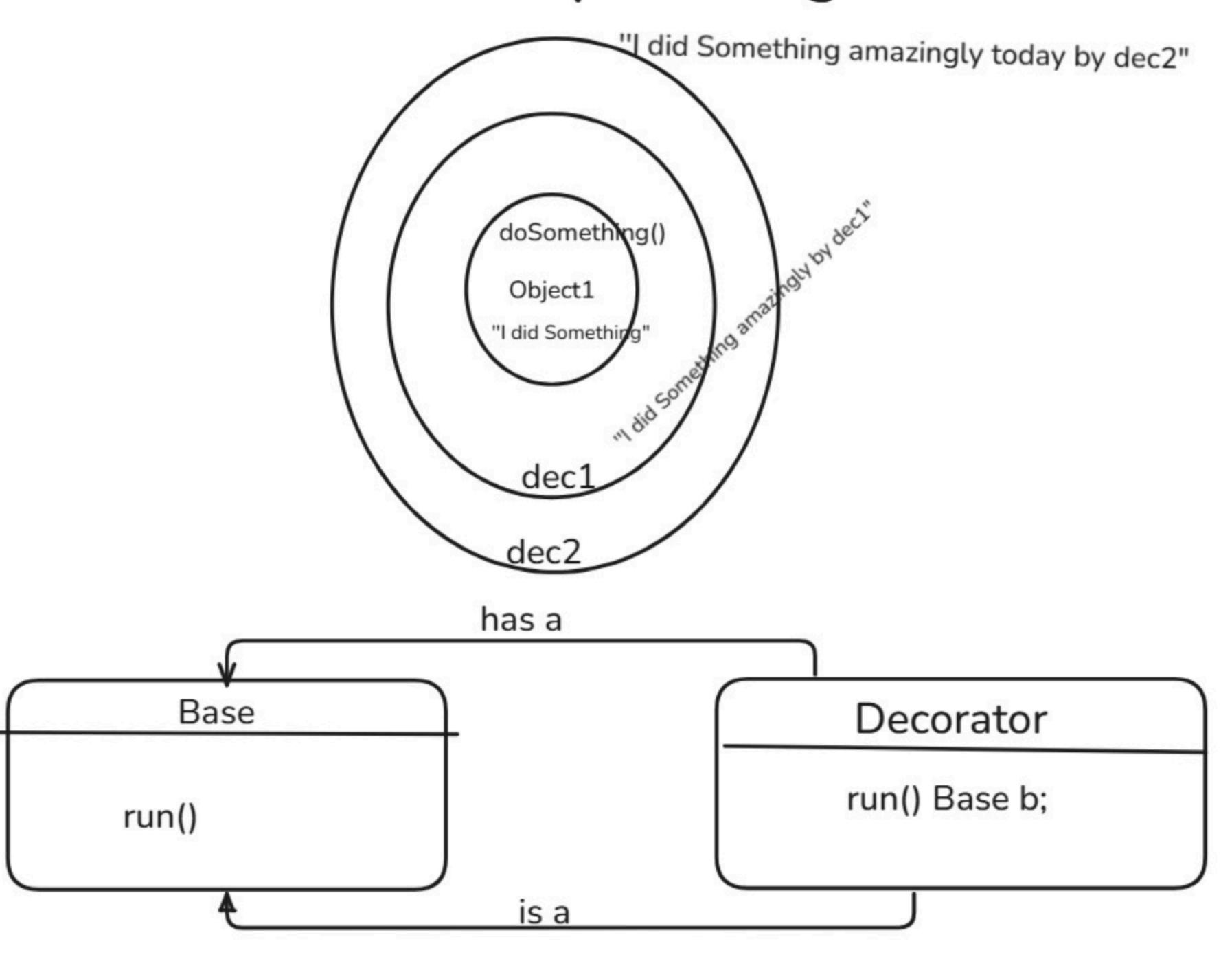


Base* b = new Child(); b->run();//OP:"Running with Skates"

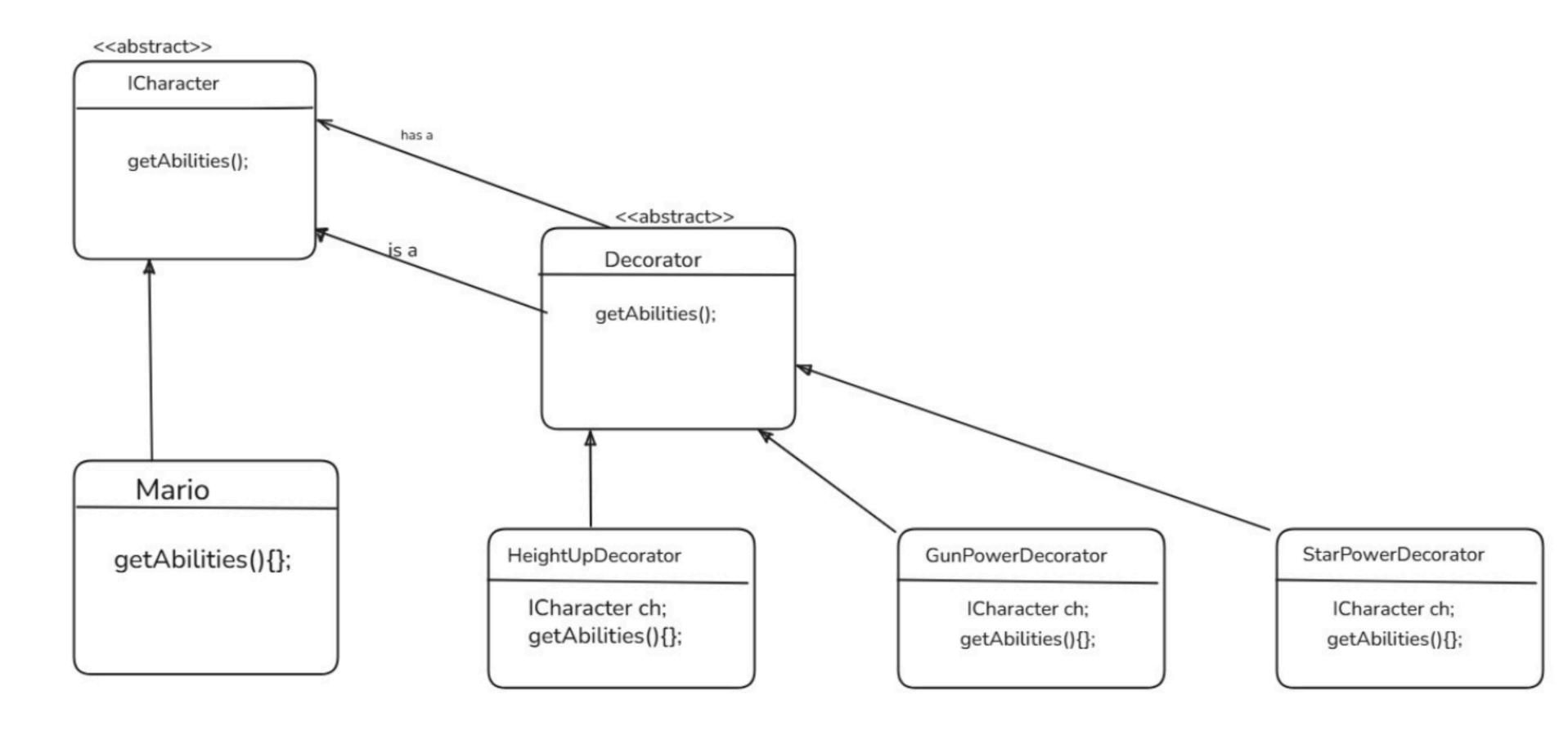
Mario Game Example using Inheritance



Mario Game Example using Decorators



UML For Mario Example

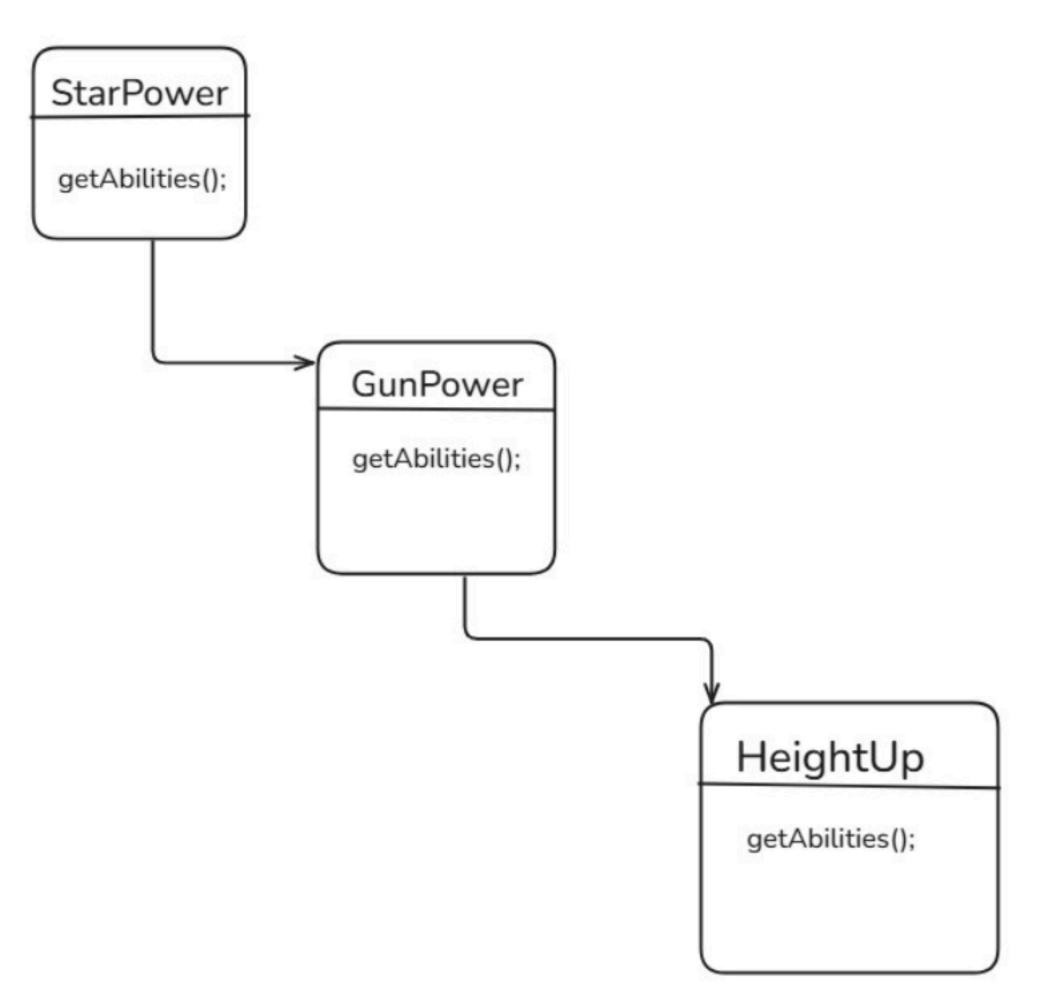


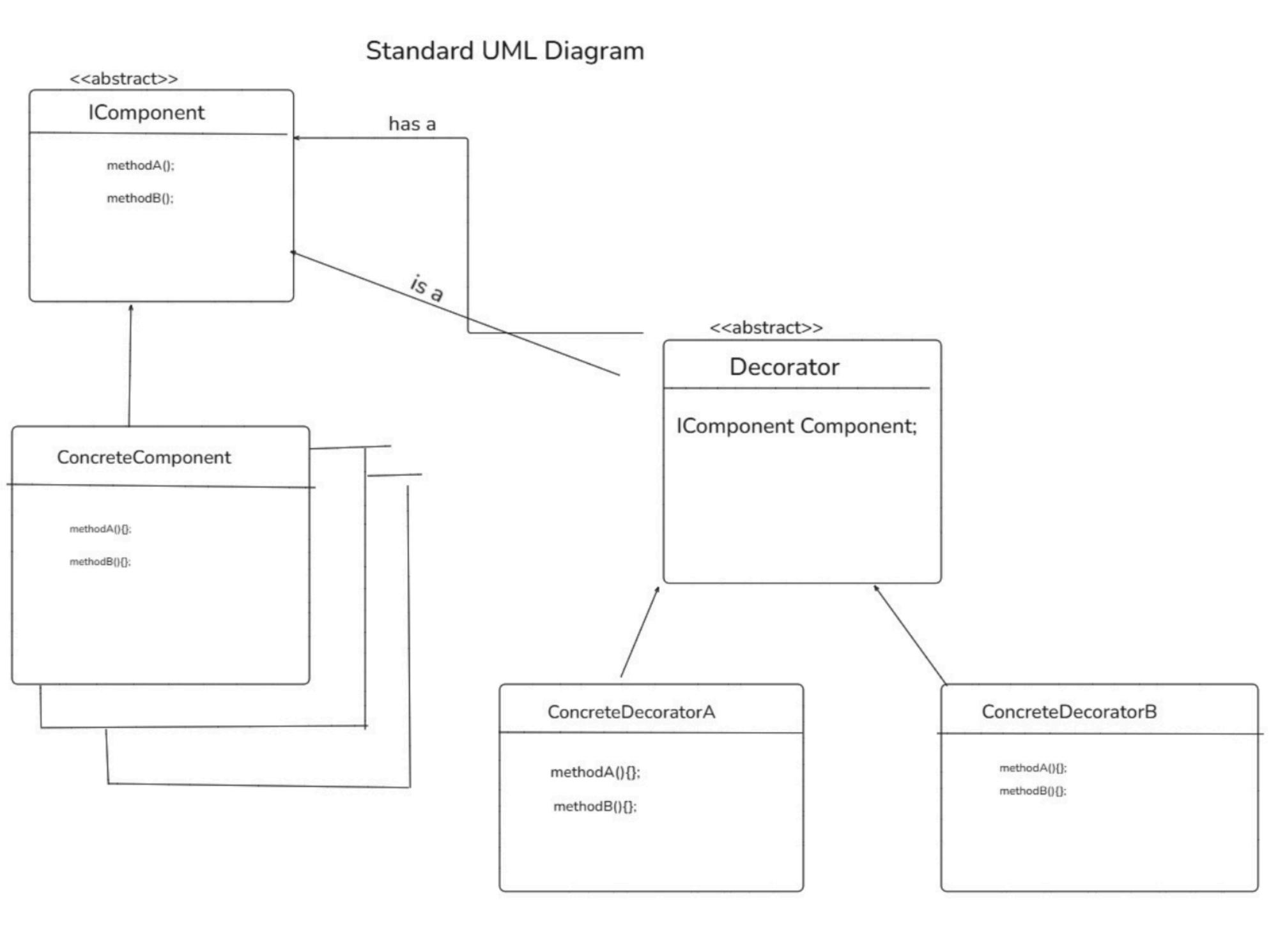
ICharacter mario = new HeightUpDecorator(new Mario()); mario->getAbilities()

Here we're using Recursion

ICharacter mario = new StarPower(new GunPower(new HeightUp(new Mario())));

0

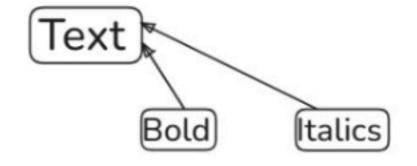




Definition

Decortaor pattern attaches additional responsibilities to an object dynamically . Decorator provides a flexible alternative to subclassing for extending functionality.

RealWorld Use Case



Document Editor we can have text in varieties Bold, Italics. We can do with decorate pattern.

• Suppose we have a form in frontend and need to check valid at backend for email. EmailCheck Decorator pattern used.