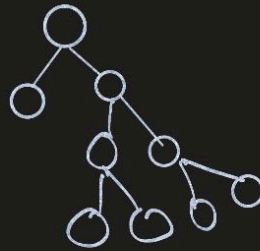


(18)

Composite Design Pattern (Structural Design Pattern)

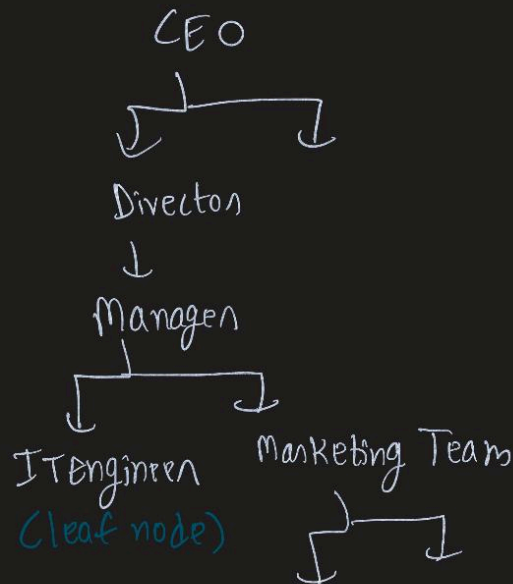
object inside object then Composite DP

example:



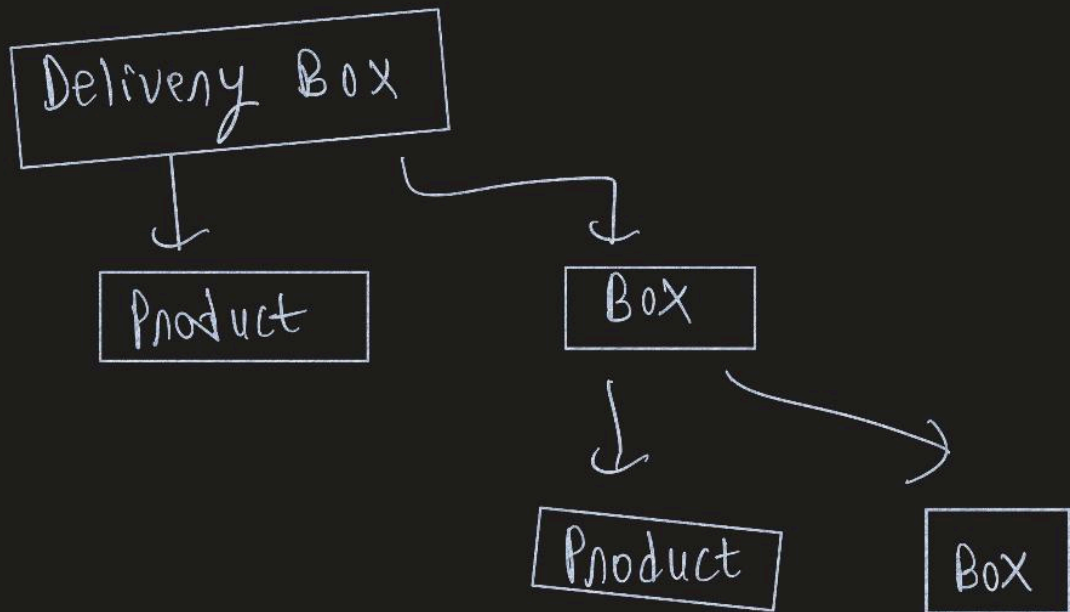
(Any Problem, which can be designed like tree falls under Composite Design Pattern)

employee:



Minimum

Example 2



Minimum

Problem

& How Composite DP solves this:

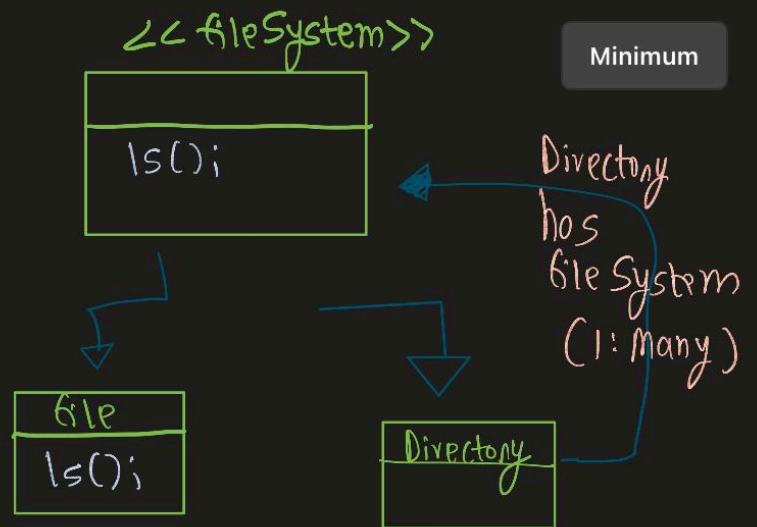
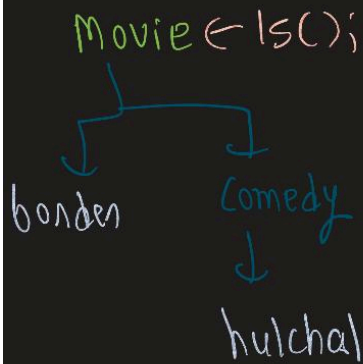
Design file system:

file on Directory
└ Contains

file on Another Directory

Design file System:

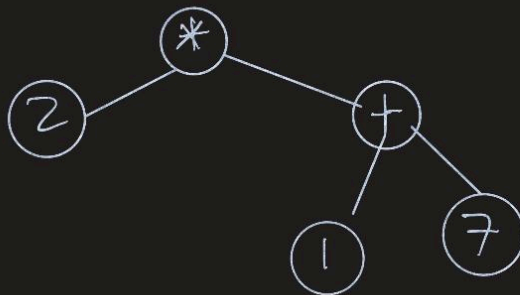
file on Directory
↓ Contains
file on Another Directory



Calculator (arithmetic Expression)

* Calculator (arithmetic expression)

$2 * (1 + 7)$



(tree like structure)

So fall into
Composite DP)

Minimum

Arithmetic expression
(interface)

evaluate();

Number
evaluate();

expression
evaluate();

expression
has
arithmetic
expression