

Why did you choose this design pattern?

What we are trying to achieve here is access to any of the employees and ask for salary any time and show employees in tree structure also enable the admin to add any type of role at anytime.

To do these things we need to be able to access each individual employees as an object and be able to perform things we want. The perfect fit for this case is composite design pattern. Because we use composite design pattern to compose objects in a tree structure to represent part-whole hierarchies. Enables to treat objects individually and composition of objects uniformly. We can manipulate a single instance of object as we would manipulate a group of objects.

Since we have branch and leaf nodes we use common interface to treat both objects uniformly.