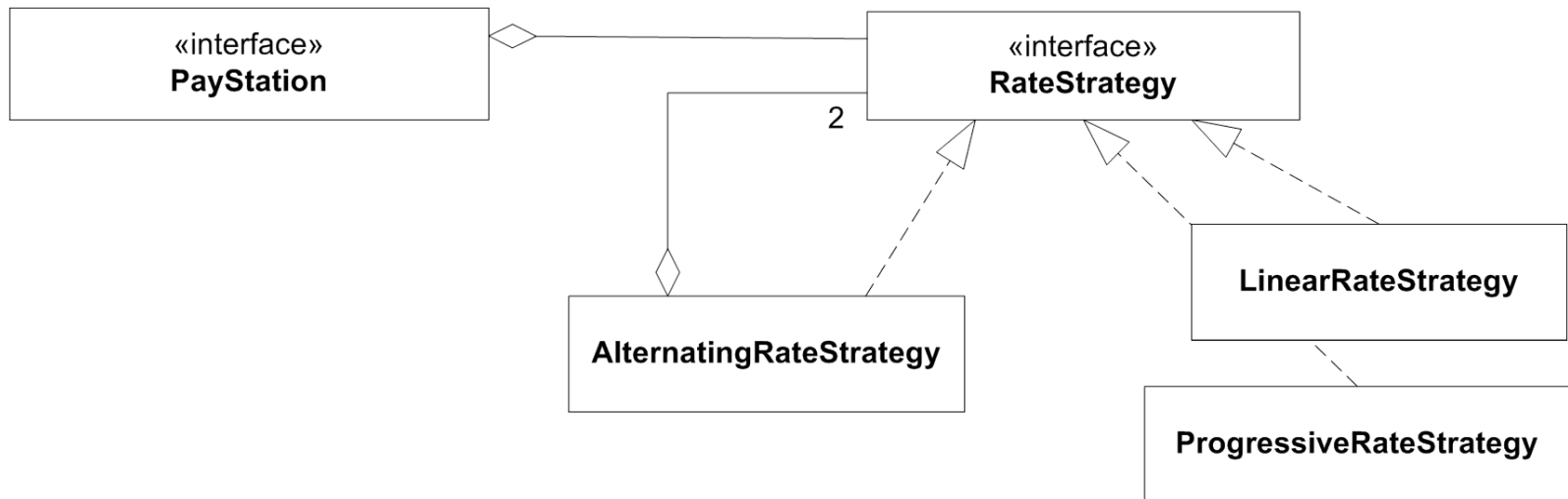




Patterns are Roles

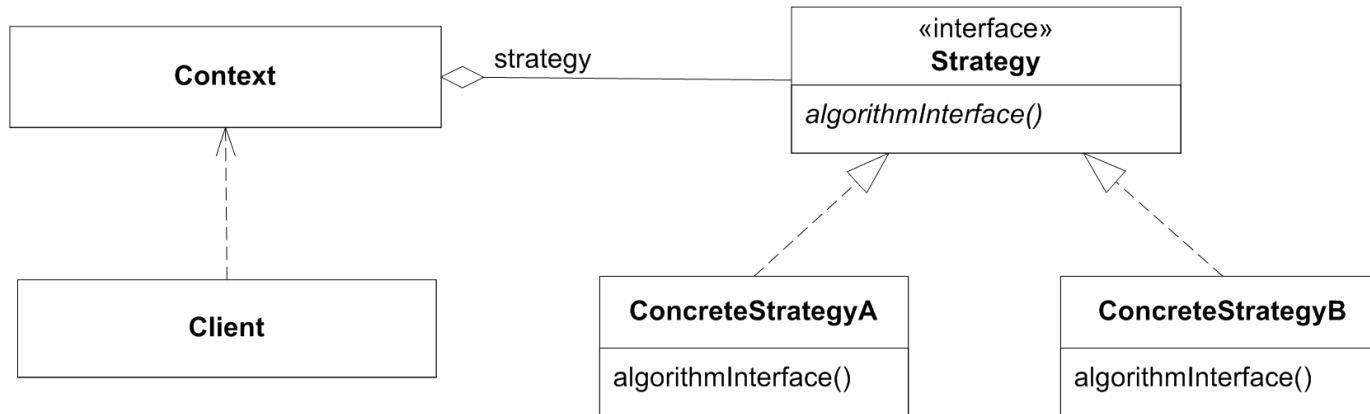
What patterns are and what not...

Let us compare this...

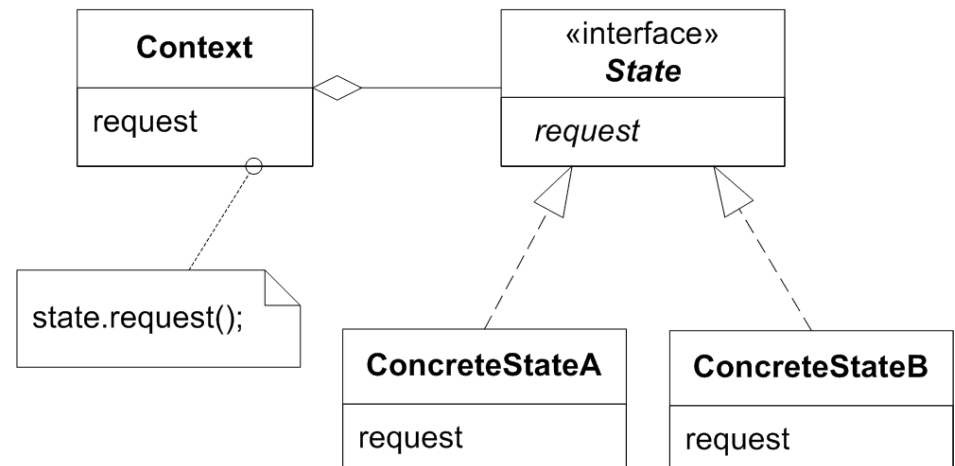


... with these two!

If these diagrams are correct, then something is wrong

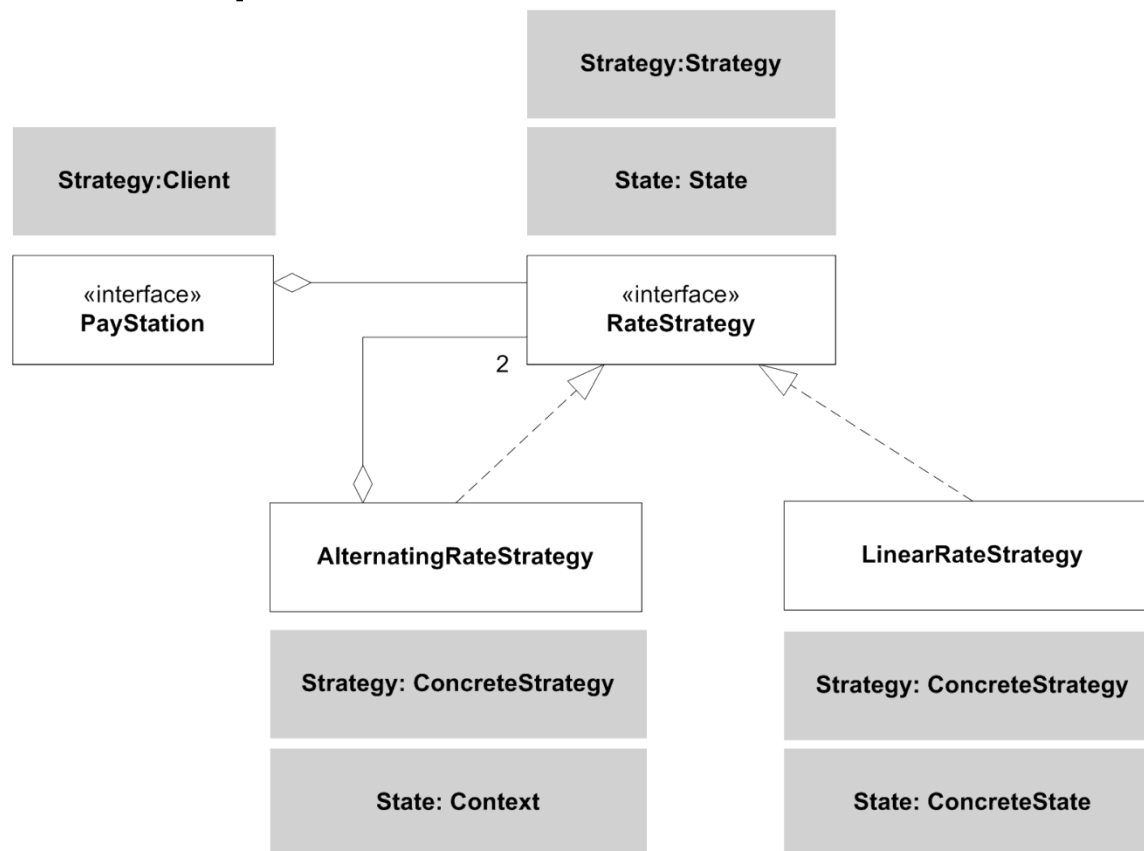


One interface named State, one named Strategy...

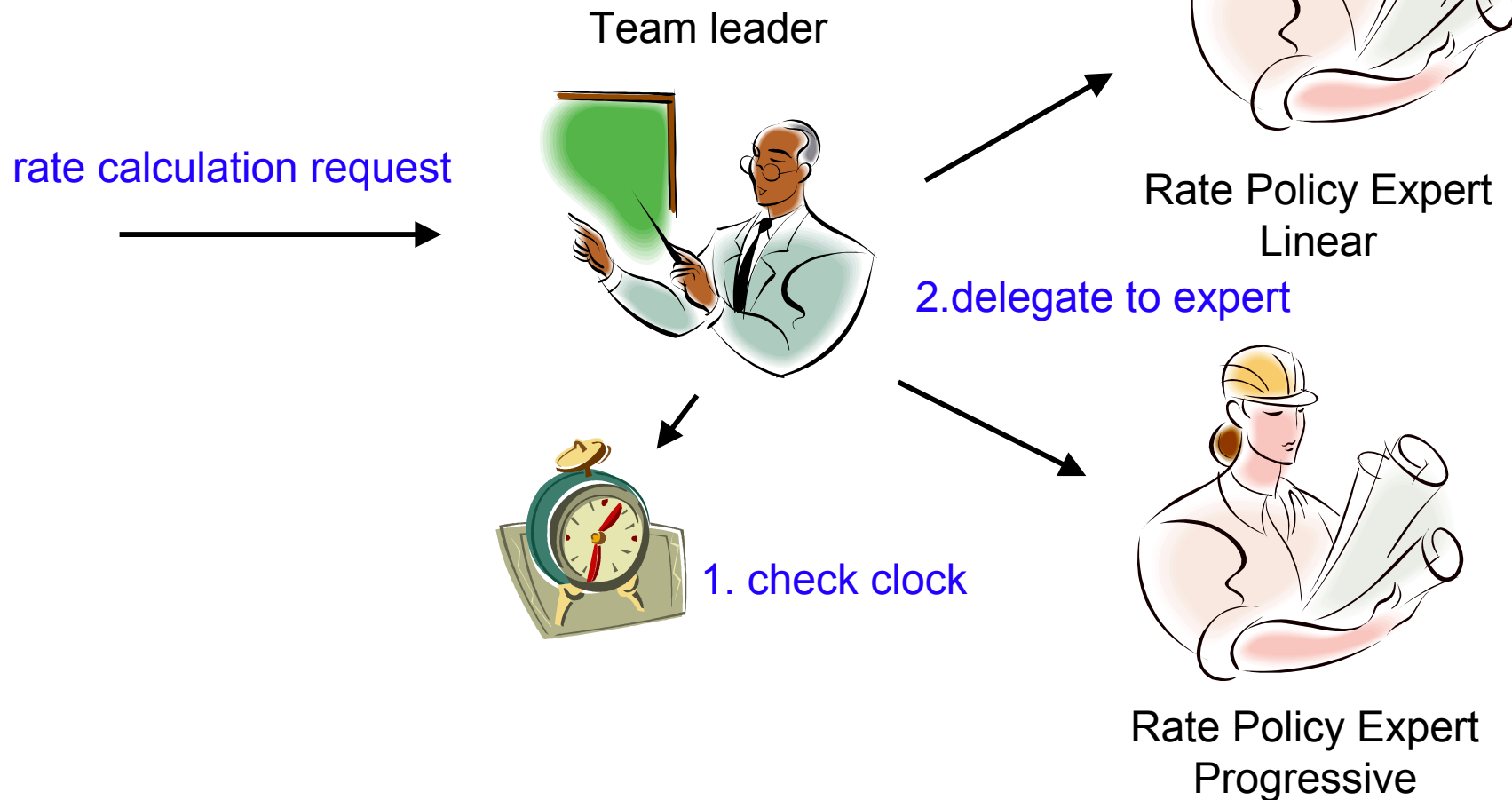


But...

UML diagrams cannot express **roles** – and patterns express roles, **not** classes!



Revisiting



The Team Leader

The AlternatingRateStrategy instance

- calculates rates = **Concrete Strategy**



Rate Policy Expert
Alternating rates

- changes behaviour depending on = **Context**



Context for state changes

The same object plays roles in two patterns!

The essence of design patterns is at a higher level of abstraction than what you may see in e.g. UML class diagrams.

Definition: Design Pattern (Role view)

A design pattern is defined by a set of roles, each role having a specific set of responsibilities, and by a well defined protocol between these roles.

- You are *not* restricted by naming, method naming, classes - *only* by the roles and the protocol !
- often a single abstraction plays multiple roles !