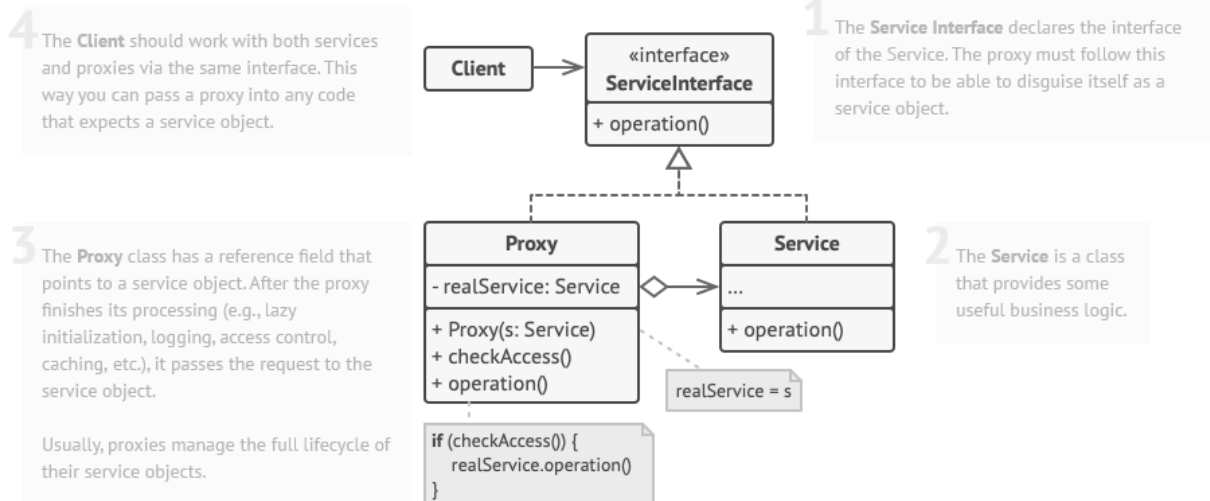


Intent

Proxy is a structural design pattern that lets you provide a substitute or placeholder for another object. A proxy controls access to the original object, allowing you to perform something either before or after the request gets through to the original object.

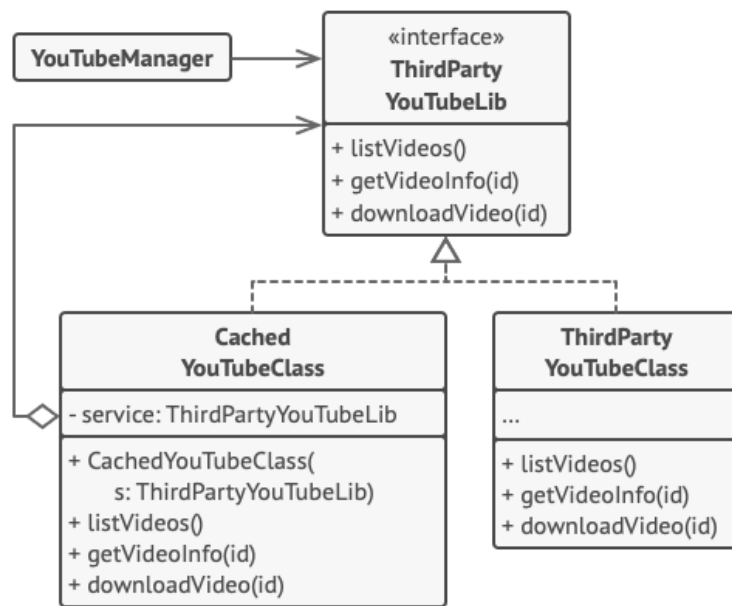
Structure



Key point

Same interface (proxy and service) to client. Proxy wrapper additional actions before or after the operation.

Example



Caching results of a service with a proxy.

Applications

- Lazy initialization
- Access control
- Remote proxy
- Caching request results
- Smart reference. This is when you need to be able to dismiss a heavyweight object once there are no clients that use it.