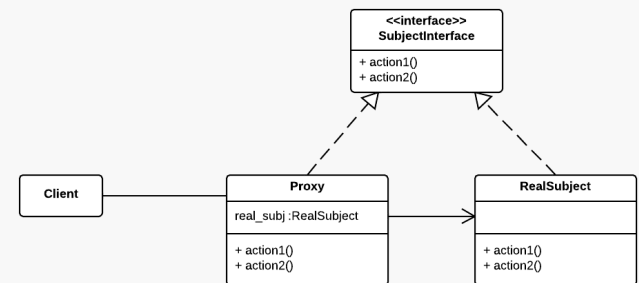
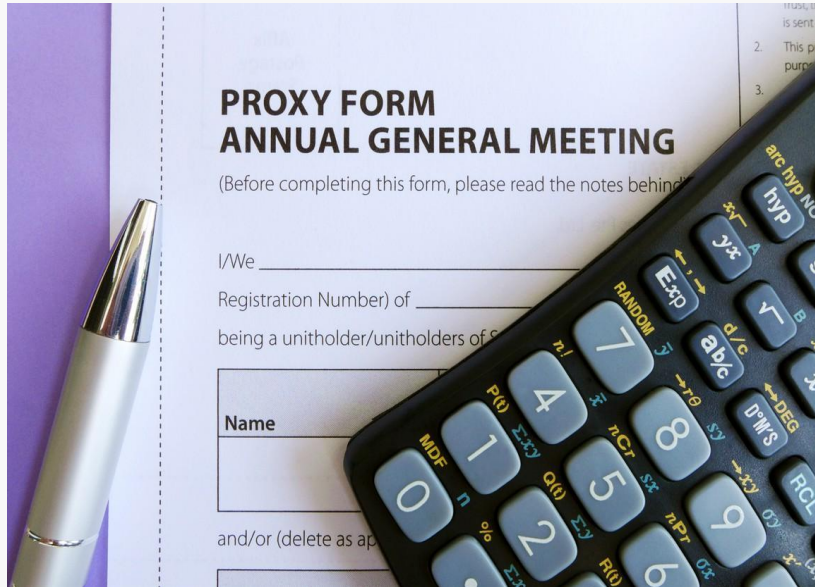
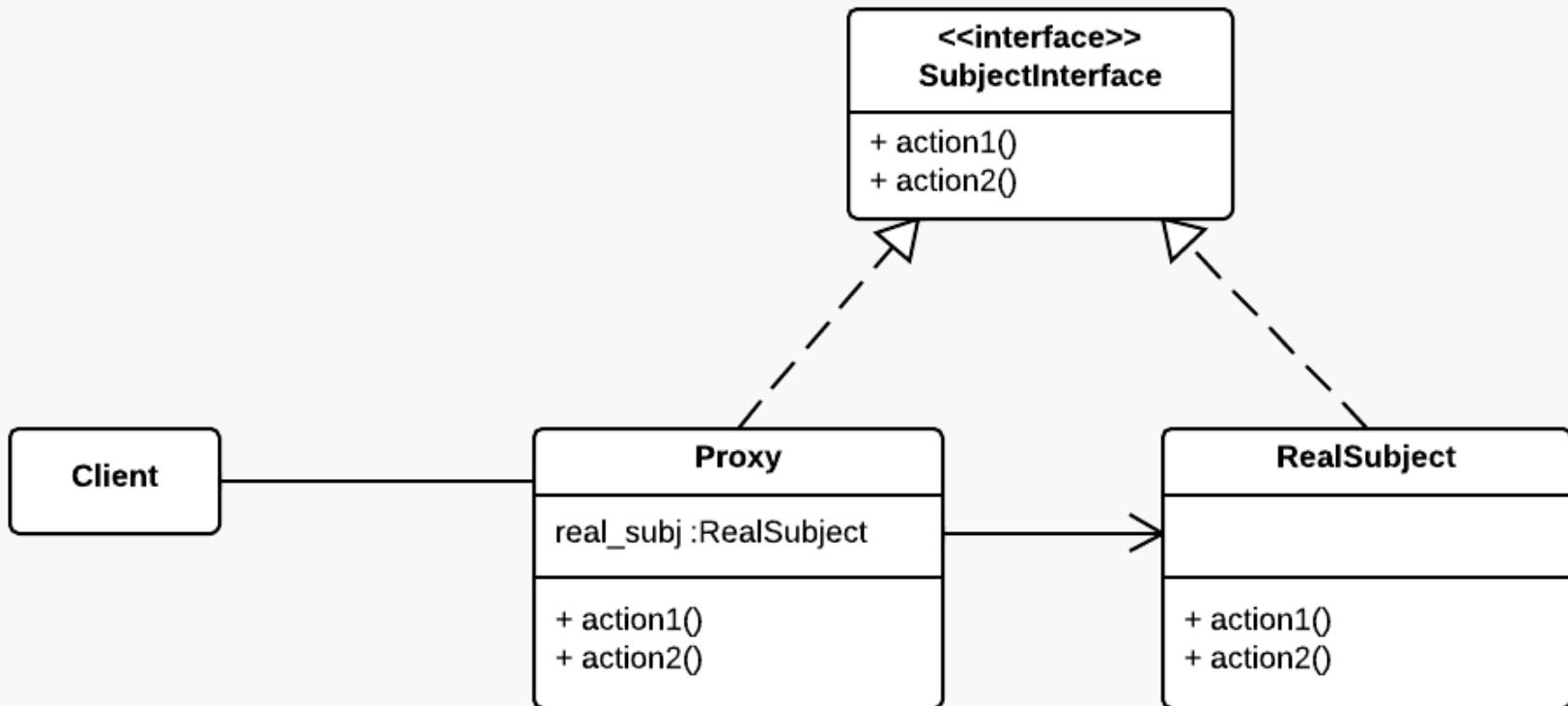


SWEN 383 Software Design Principles & Patterns

The Proxy Pattern



Basic Proxy



Overview



Joe and Mary want to sign a contract.

Joe is in Canada.

Mary is in Argentina.



Overview

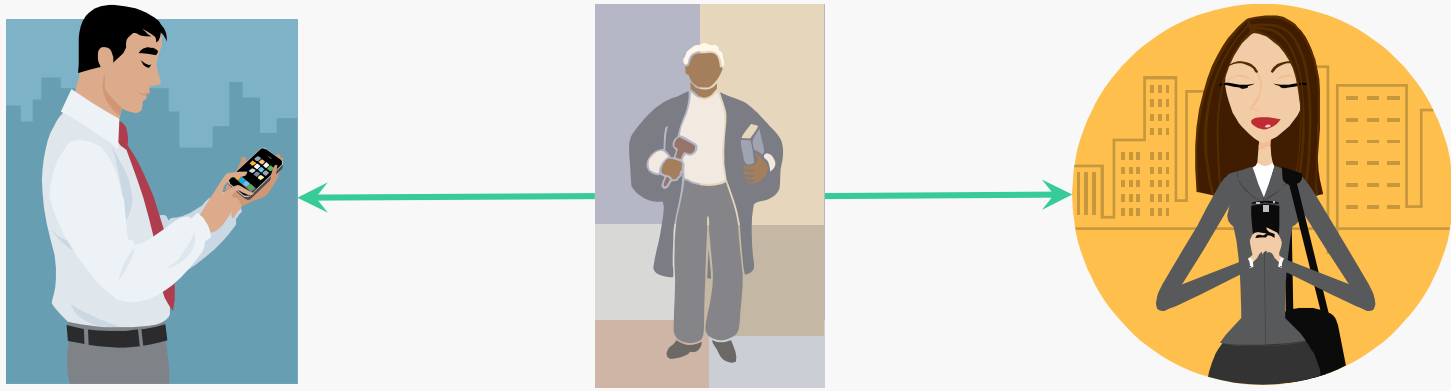


Joe asks Sandy to be a proxy for Mary.

Mary asks Pedro to be a proxy for Joe.



Overview



Joe “agrees with” Sandy as Mary’s stand-in.

Mary “agrees with” Pedro as Joe’s stand-in.



Overview



Joe “agrees with” Sandy as Mary’s stand-in.

Mary “agrees with” Pedro as Joe’s stand-in.



Overview



Joe and Mary now have a legal contract.

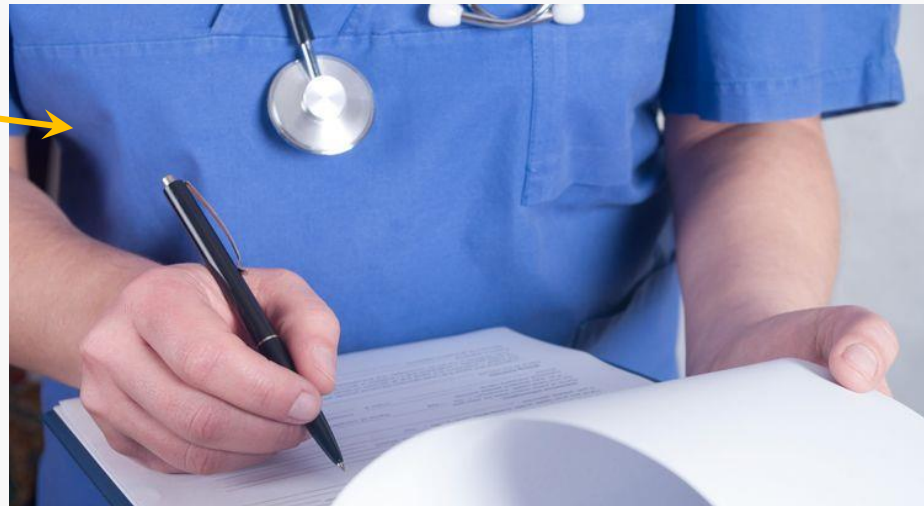


Health-care proxy



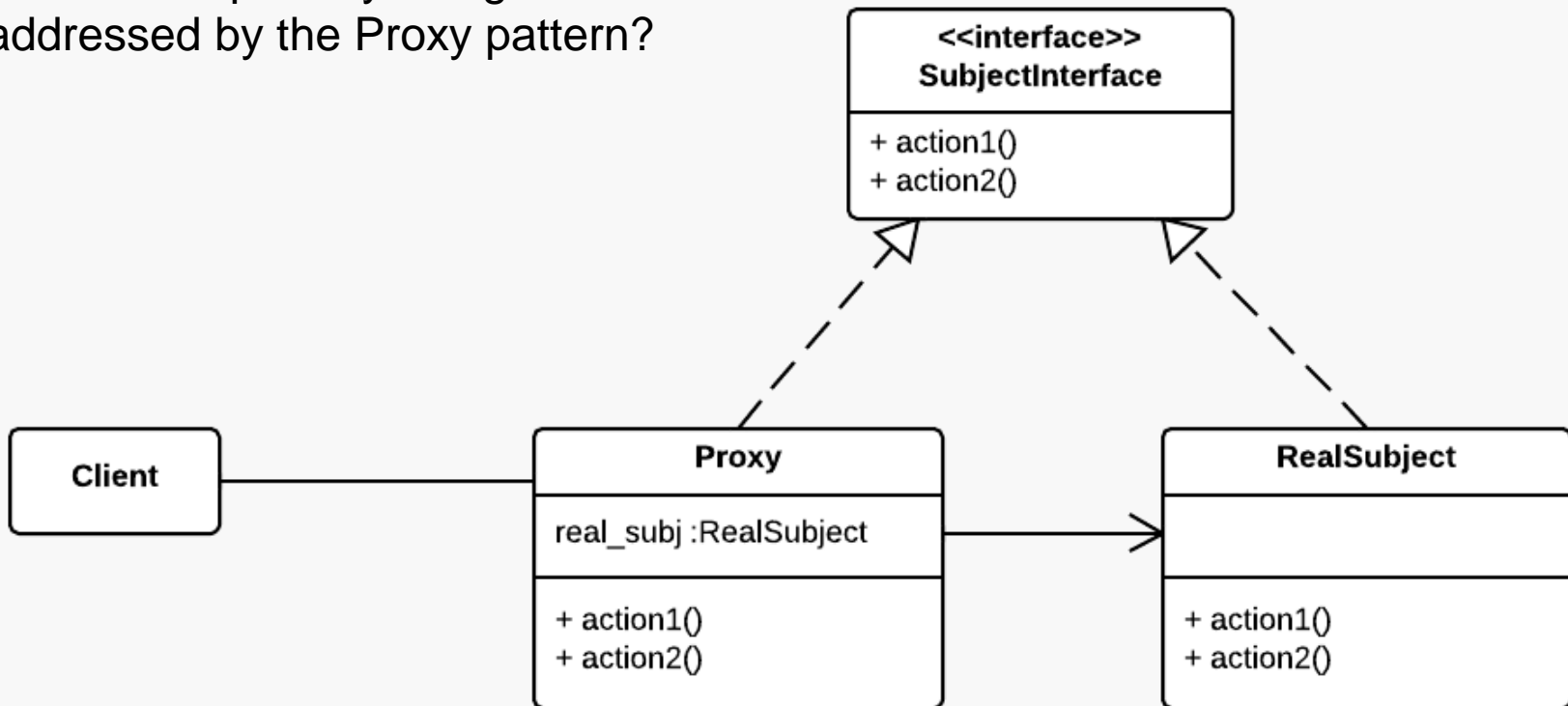
Joe needs to make health care decisions for his mother Jane's surgery.

They had a previous agreement through a Health-care proxy

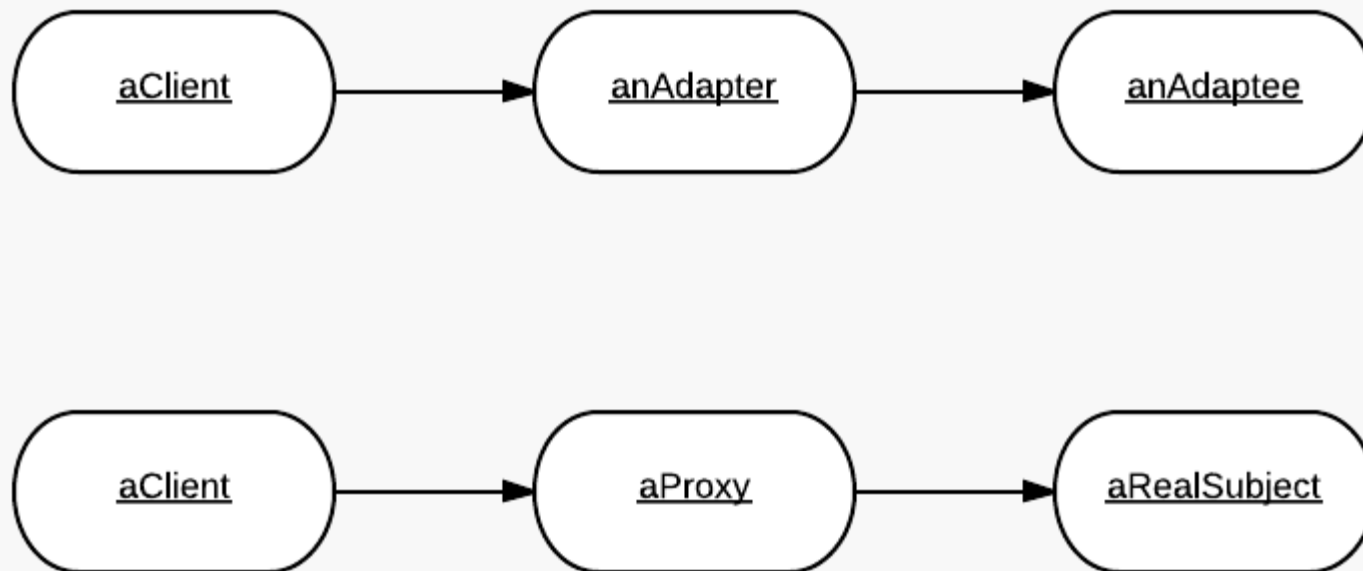


Basic Proxy

What is the primary design issue addressed by the Proxy pattern?

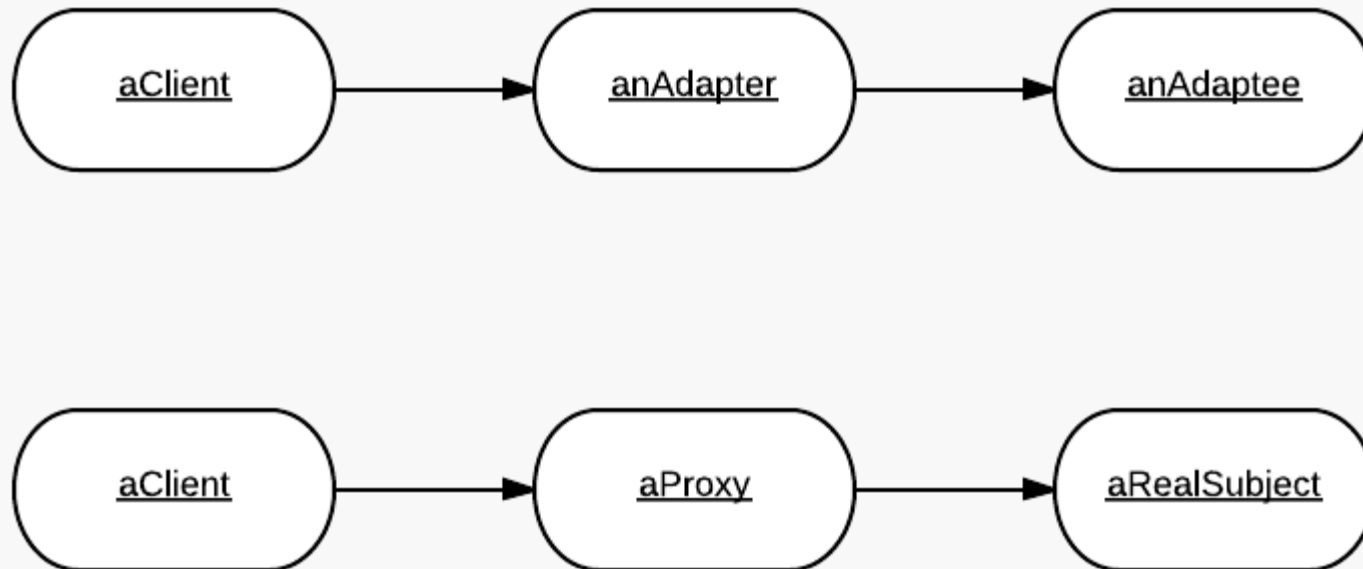


Proxy vs. Adapter



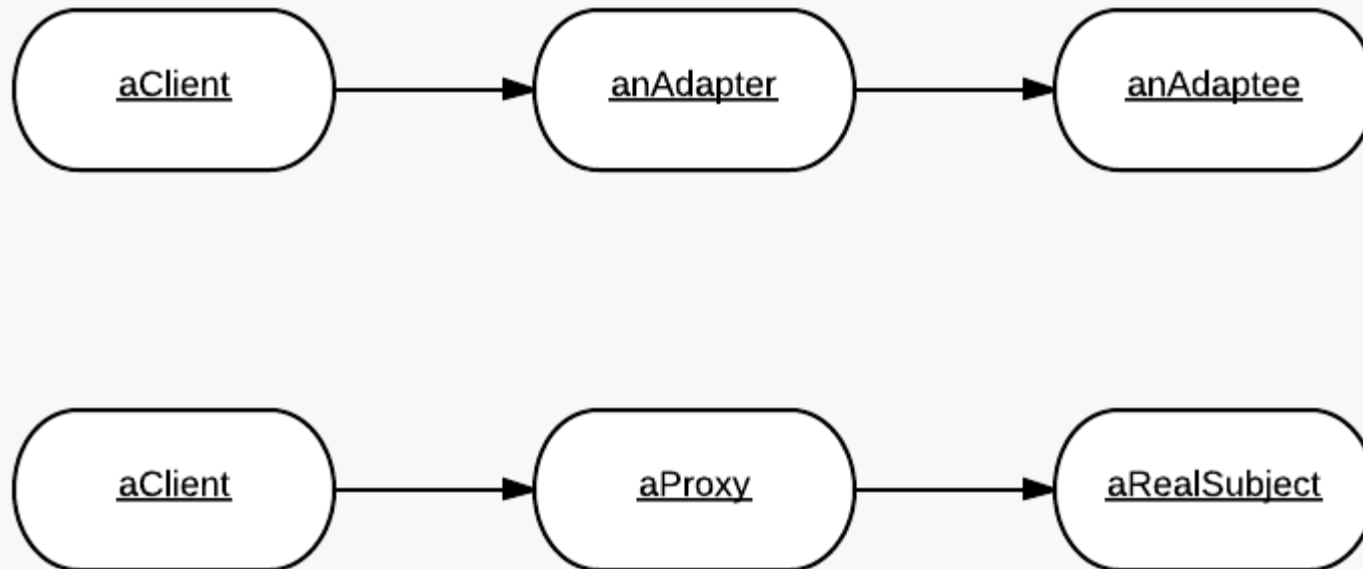
Proxy vs. Adapter

How are proxies and adapters similar?

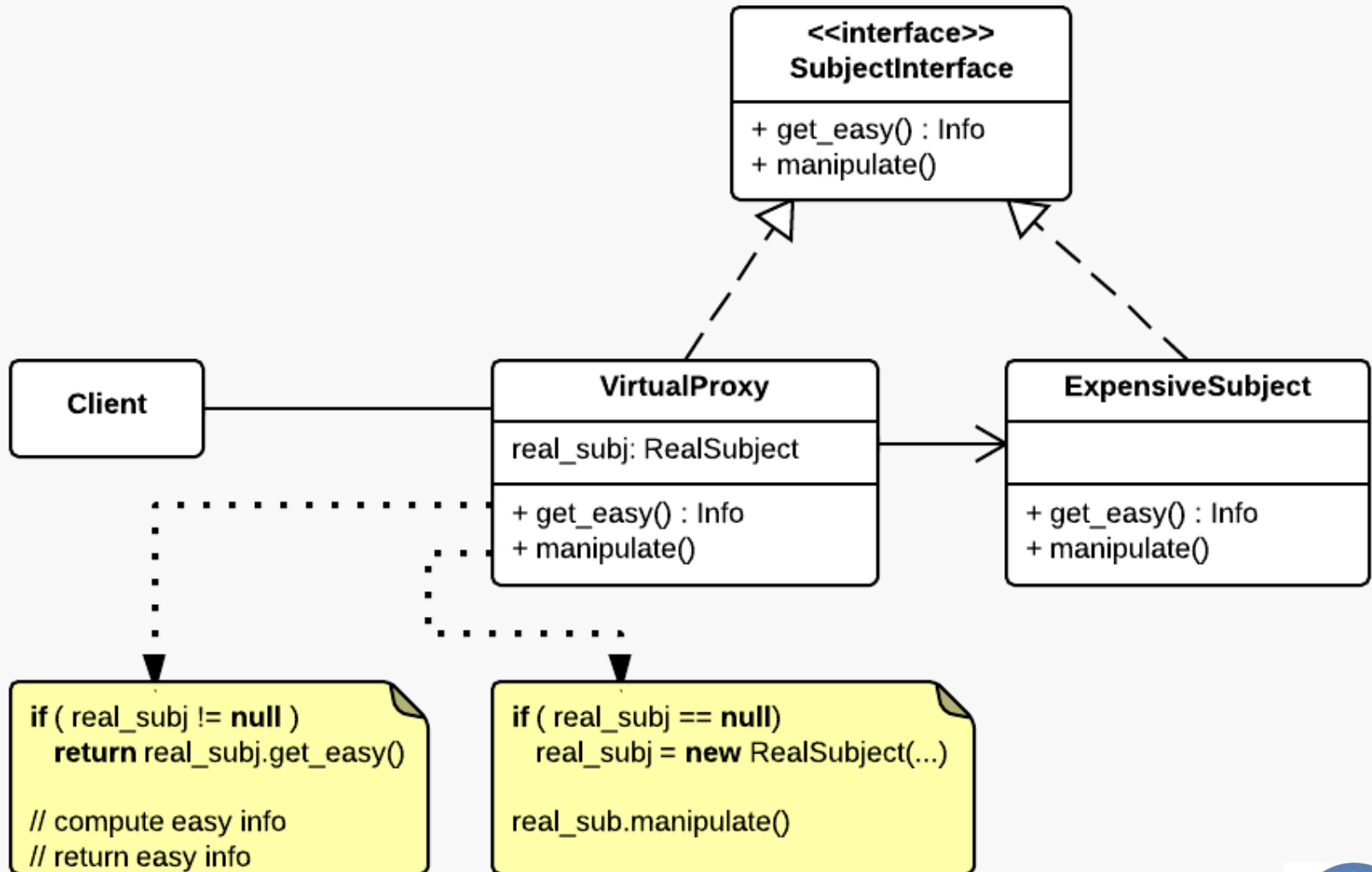


Proxy vs. Adapter

How are proxies and adapters different?



Virtual Proxy

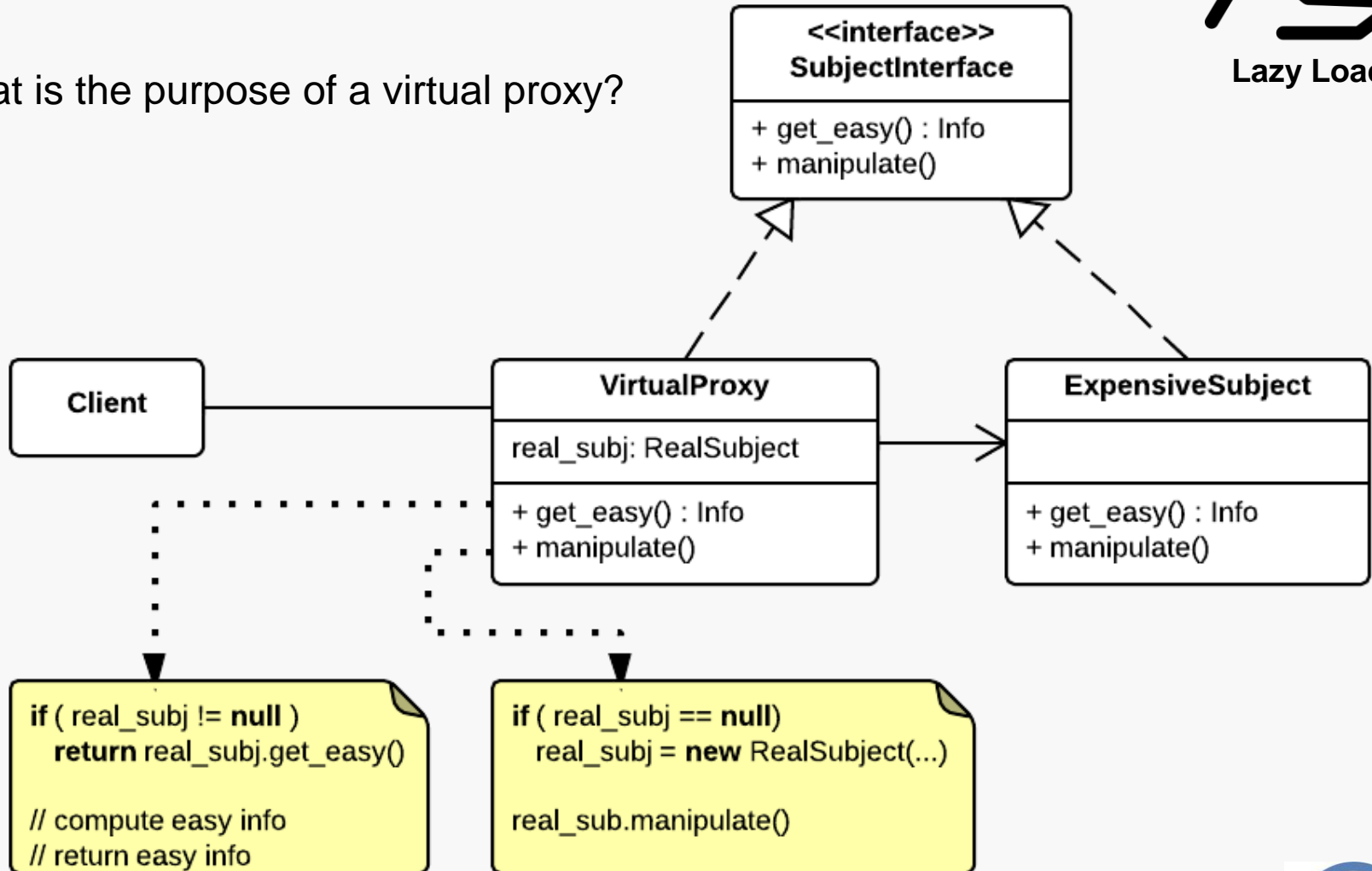


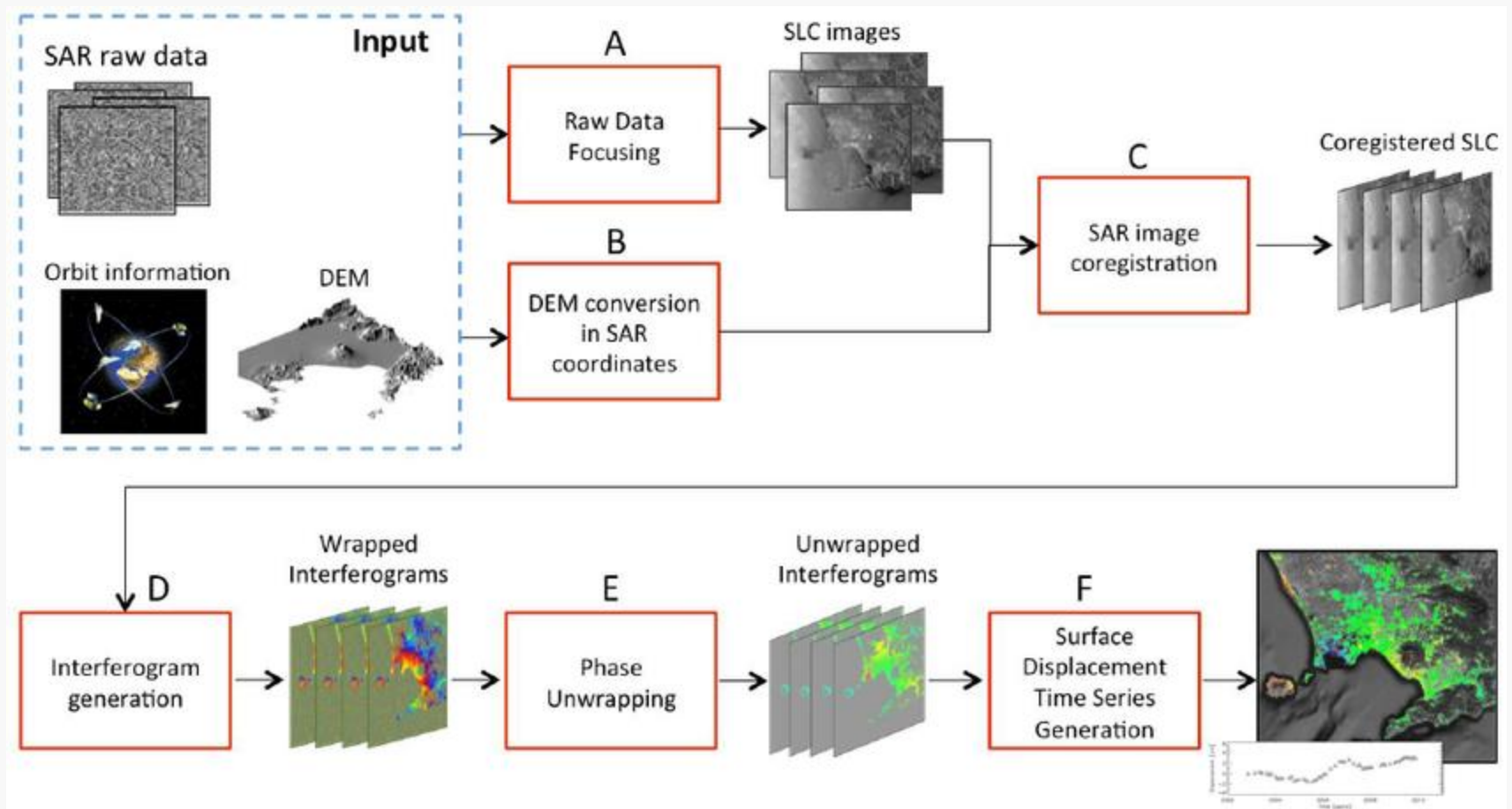
Virtual Proxy



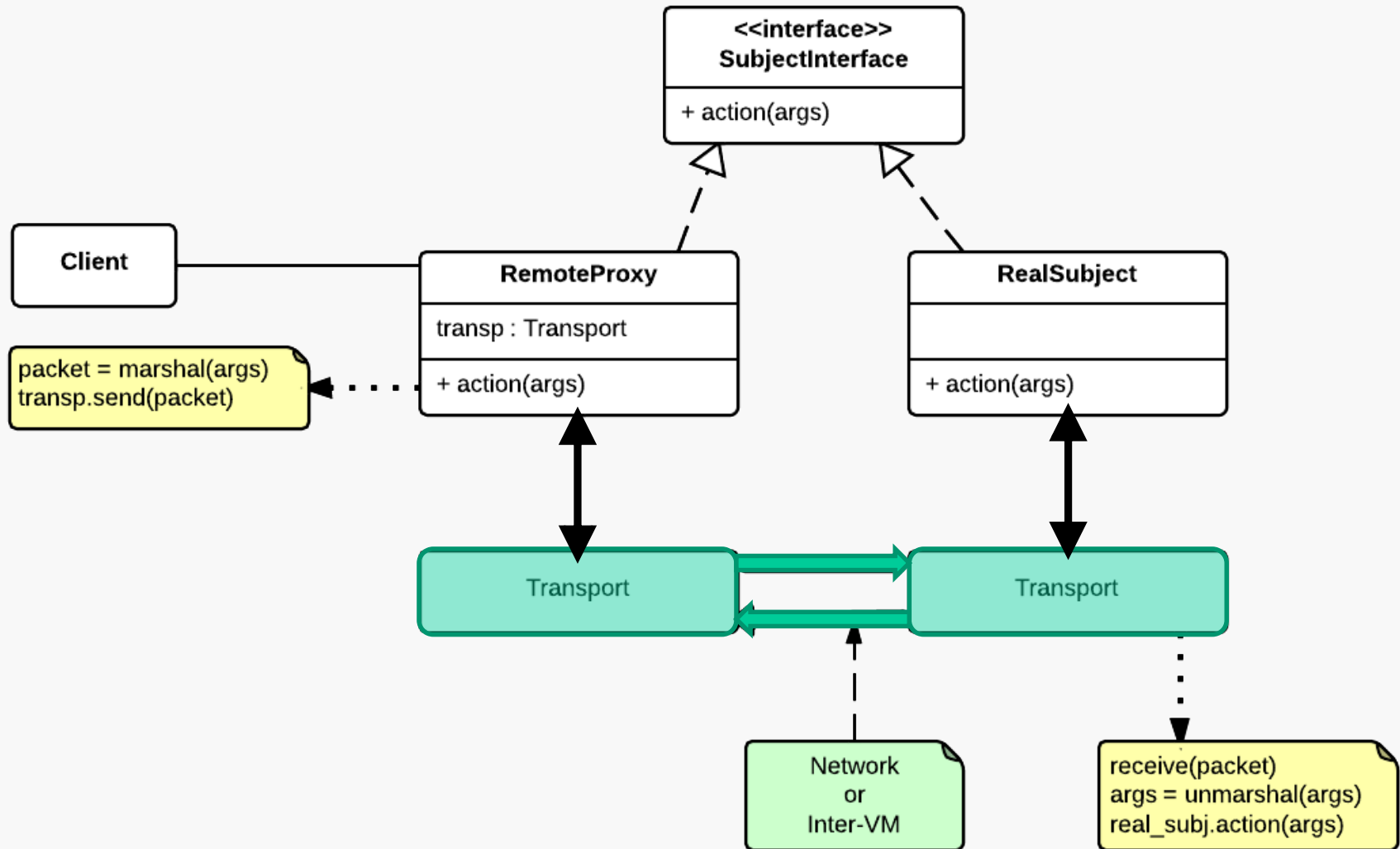
Lazy Loading..

What is the purpose of a virtual proxy?

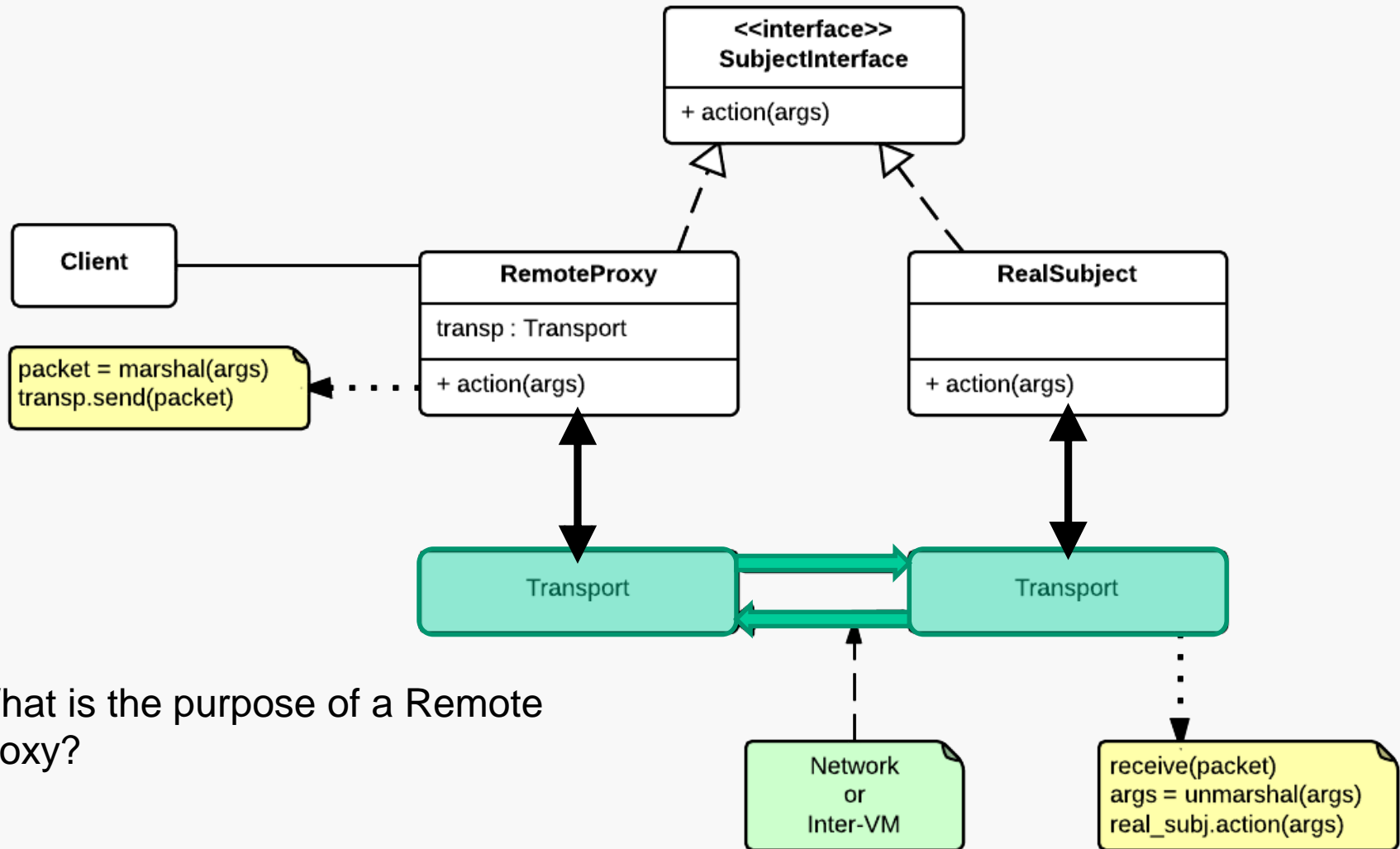




Remote Proxy

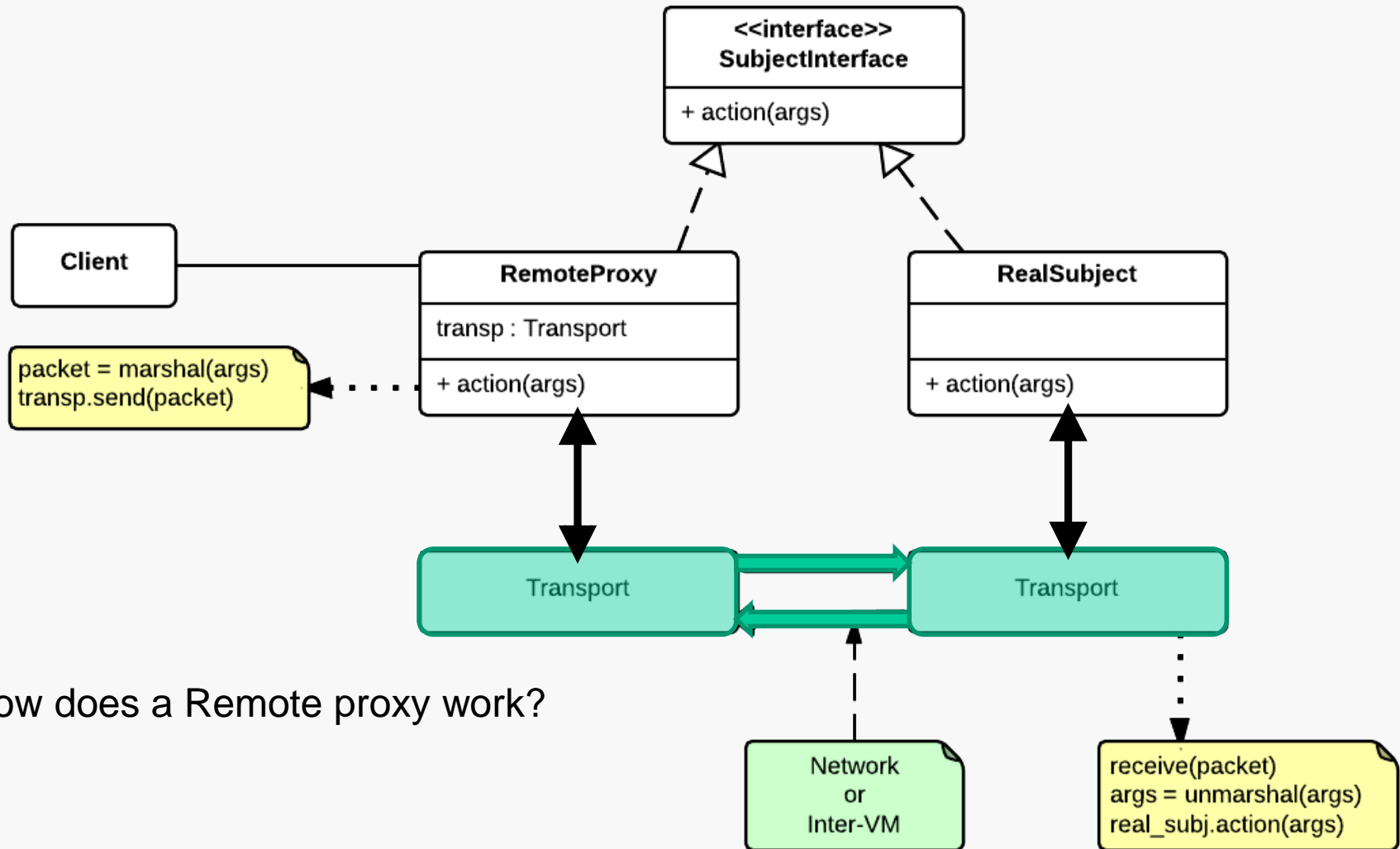


Remote Proxy



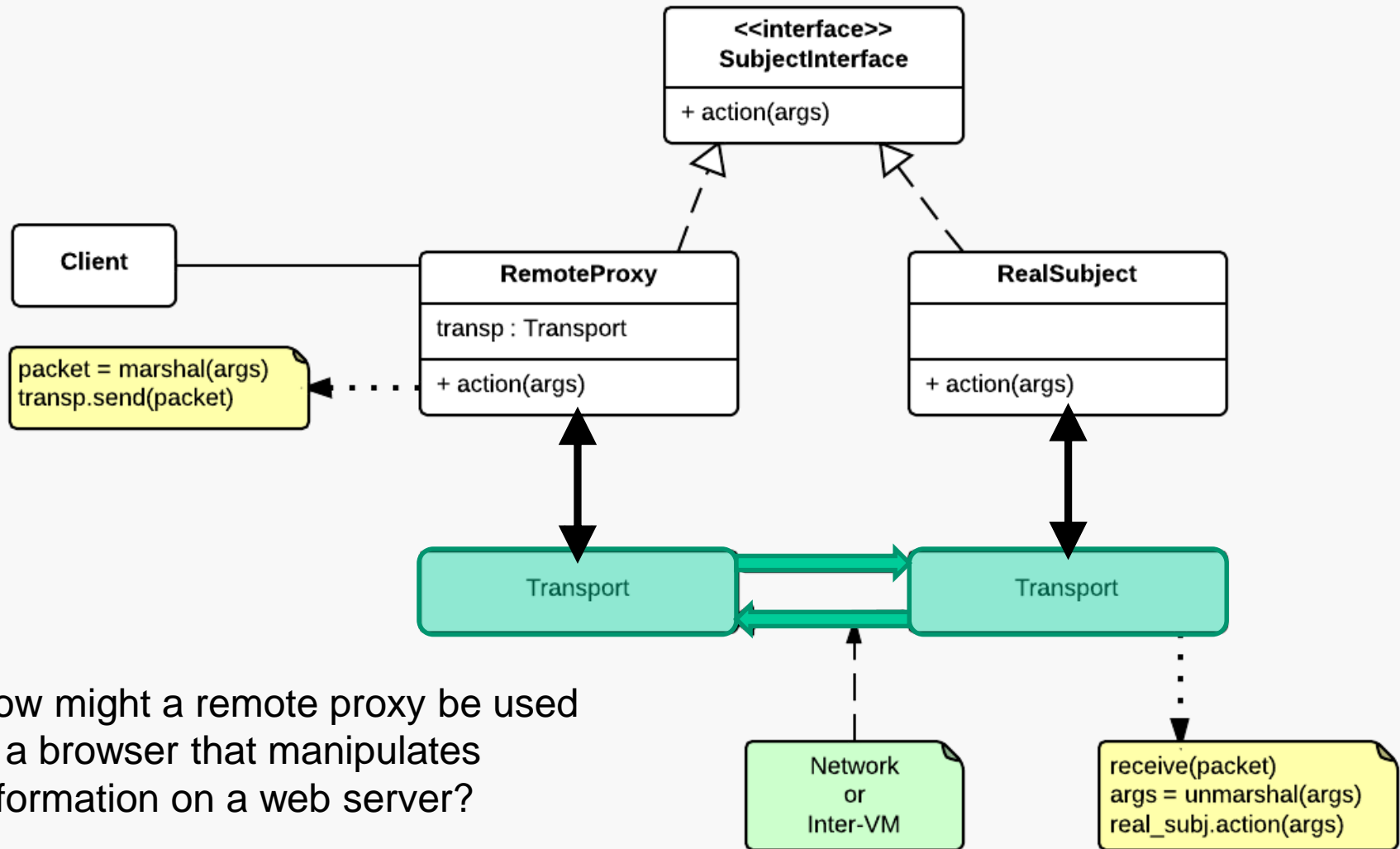
What is the purpose of a Remote proxy?

Remote Proxy



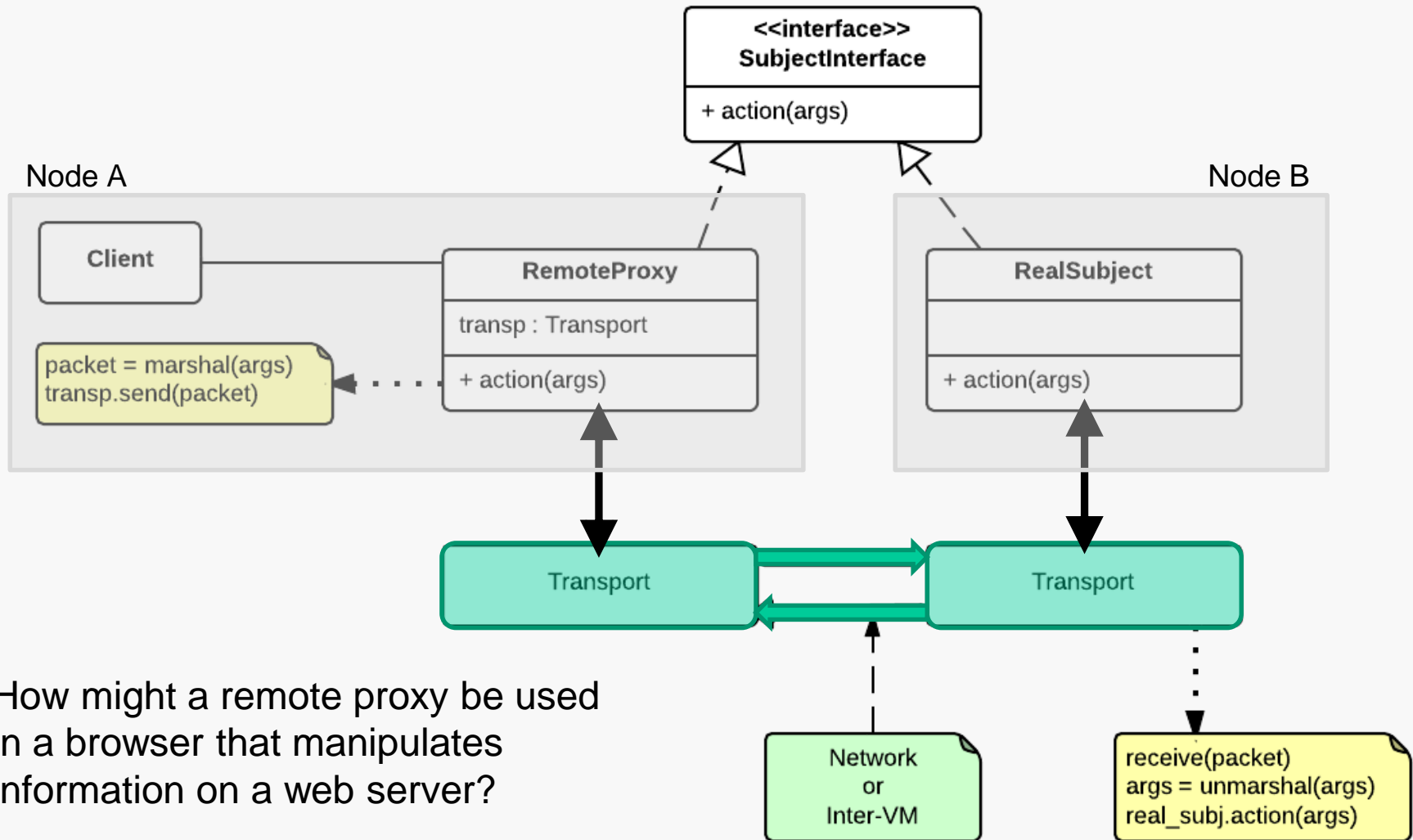
How does a Remote proxy work?

Remote Proxy



How might a remote proxy be used in a browser that manipulates information on a web server?

Remote Proxy



How might a remote proxy be used in a browser that manipulates information on a web server?

A(proxy)

The MAGIC SAUCE!

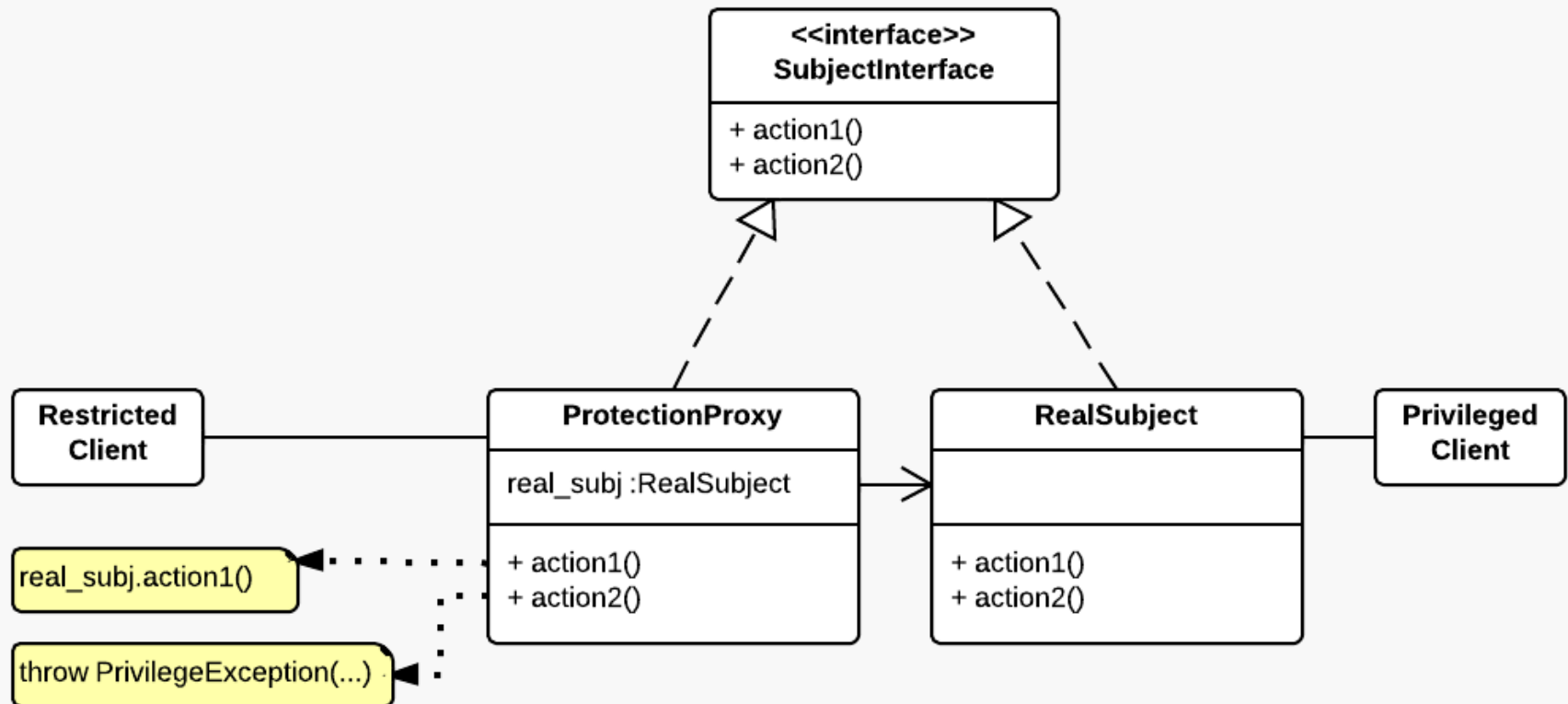


A



B

Protection Proxy



HOW TO BUILD A

BITCOIN-PAYABLE HTTP PROXY

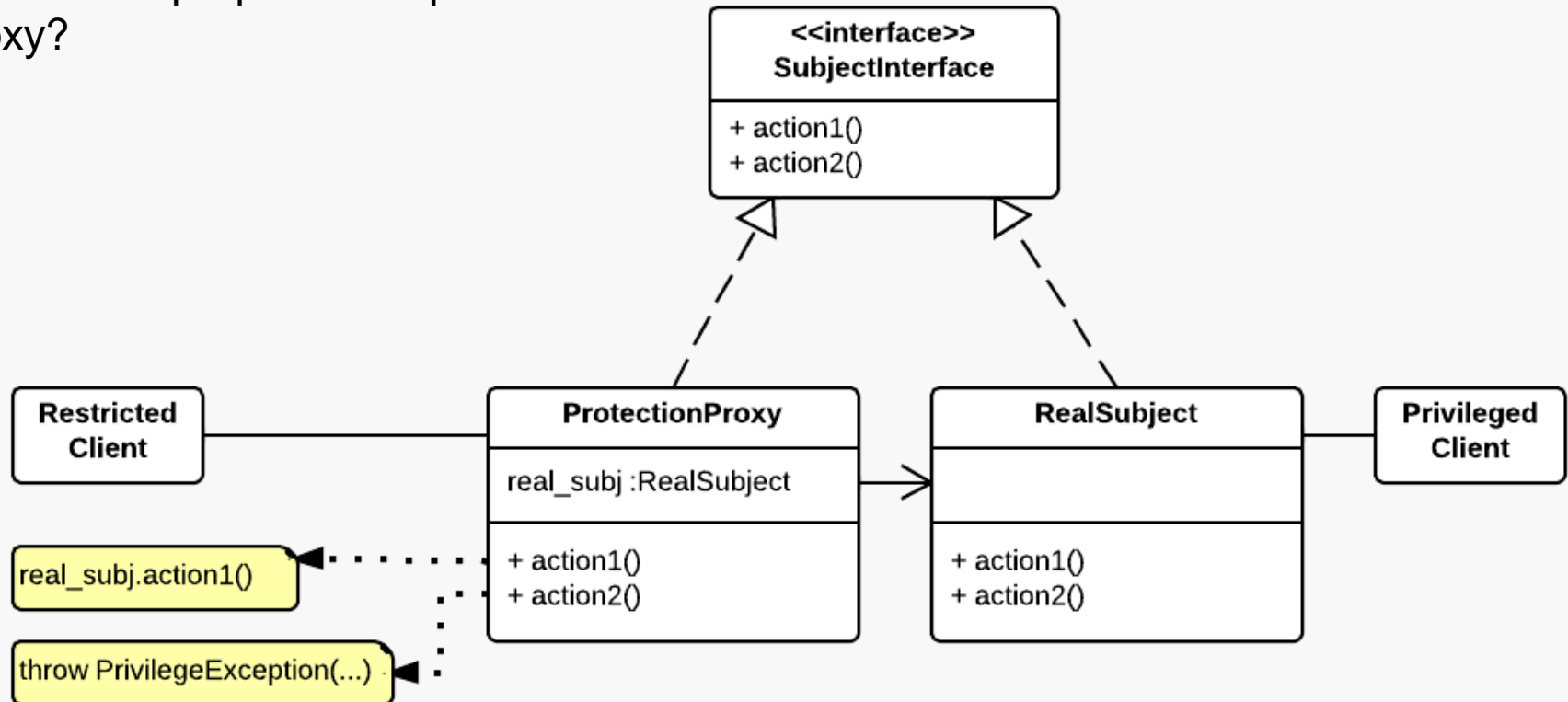


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Protection Proxy

What is the purpose of a protection proxy?



Protection Proxy

How could a Protection Proxy be used to control access to the object representing a blog article?

