

Sisteme Distribuite

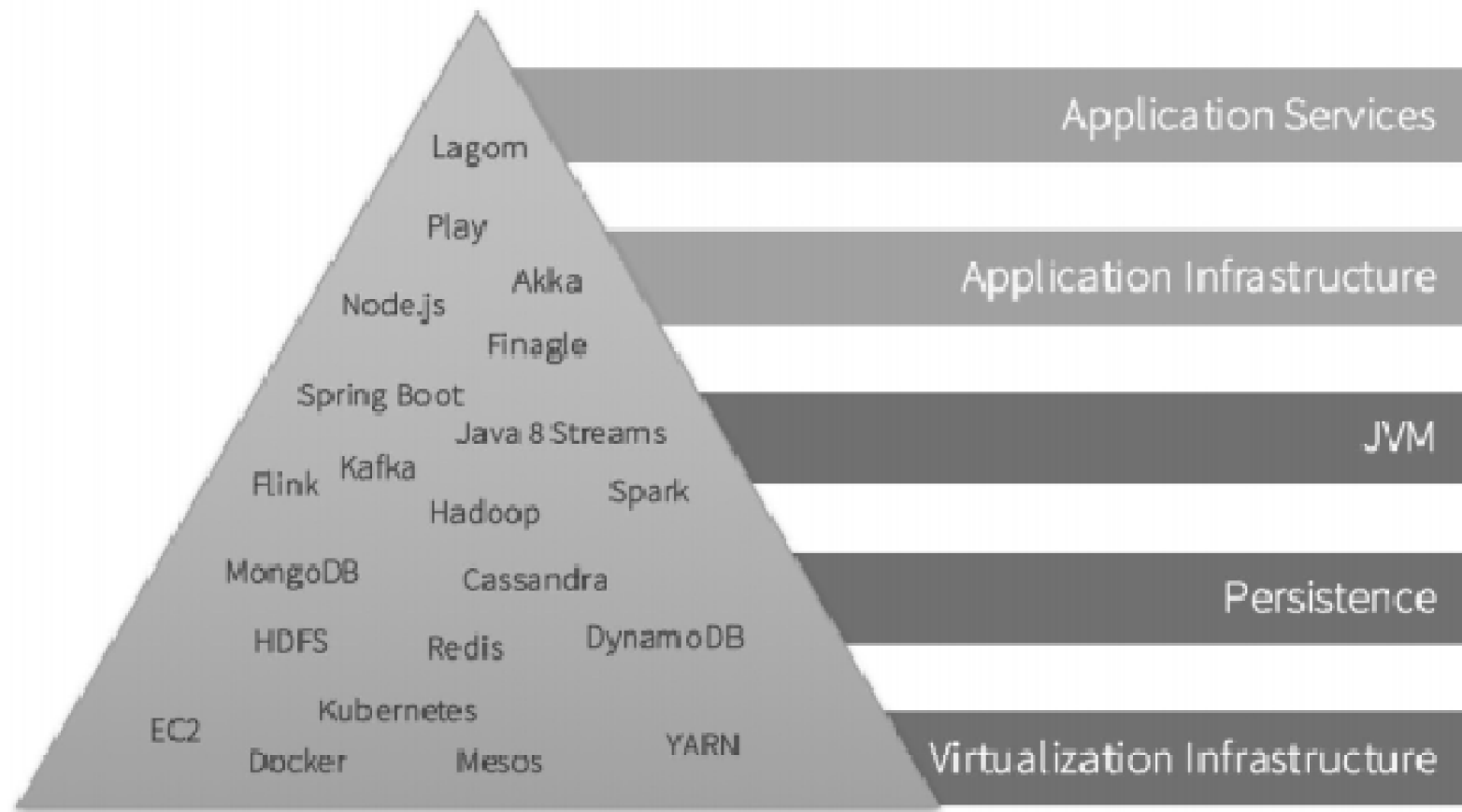
Mihai Zaharia

Cursul 6

Arhitecturi bazate pe tratare evenimente

- Avantaje:
 1. Nu este nevoie de o mapare relațională a obiectelor
 2. Cu fiecare schimbare externă capturată ca eveniment starea curentă poate fi repetată
 3. Asigurarea persistenței se face fără modificări
- Rezultă că nu mai am nevoie de un SGBD relațional

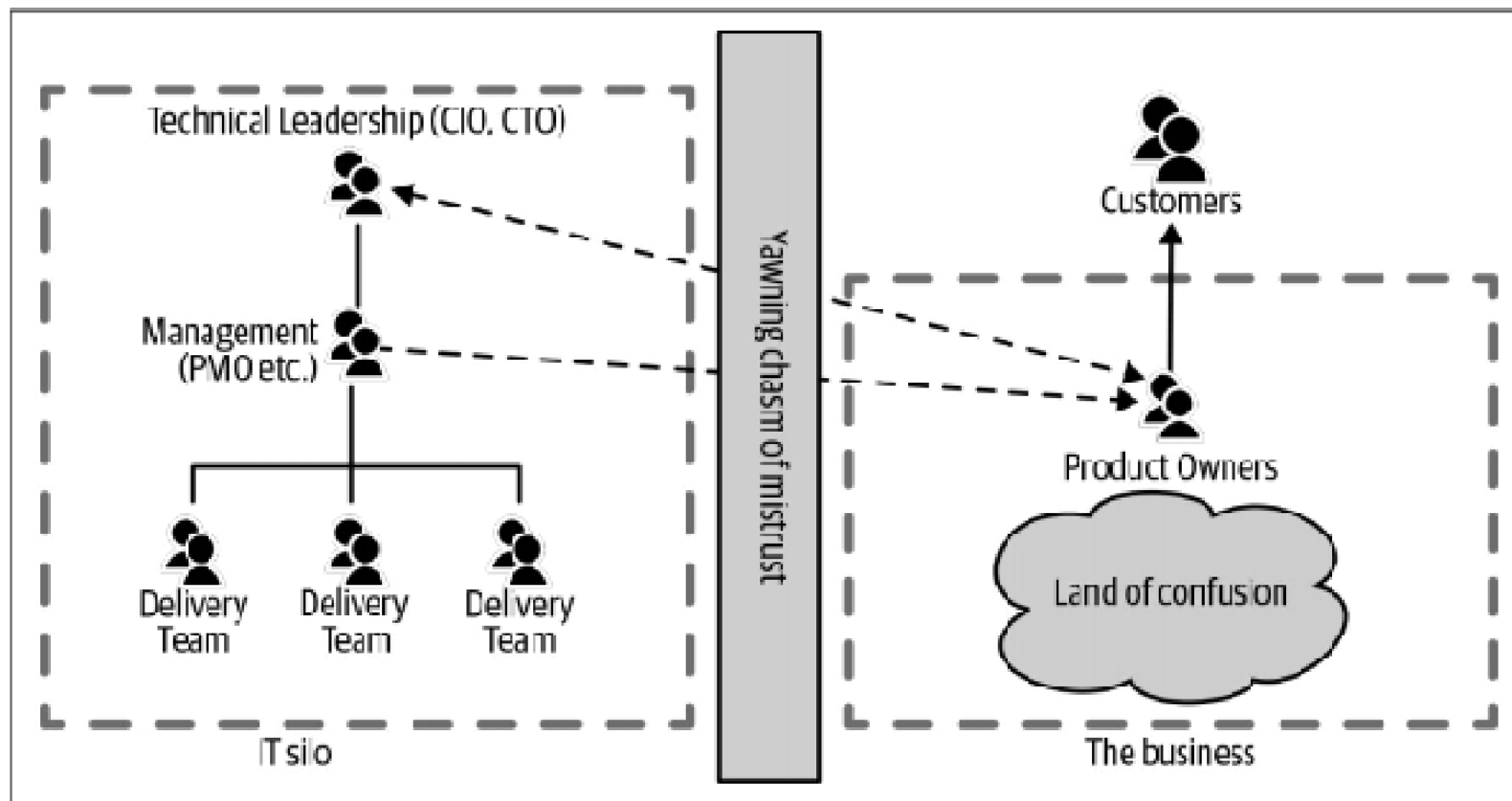
Ce este cu JEE?



Cum s-a carpacit JEE containerelor

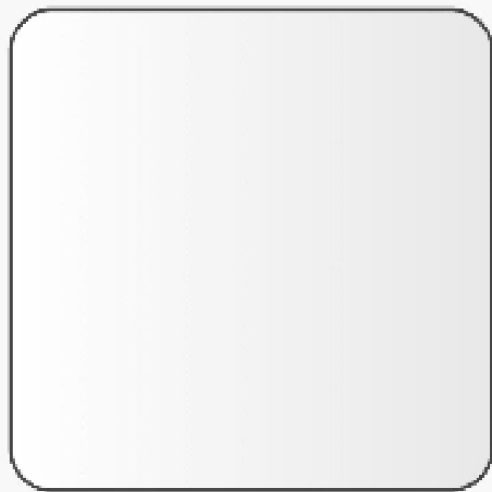
- Asamblările hibride -> probleme
- Frameworkurile clasice - aceleași probleme
- JEE & containerele ei?
- JBoss & Spring | PicoContainer

Proprietarul unui microserviciu



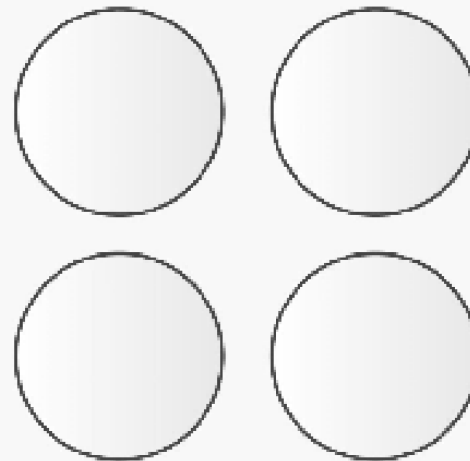
Granularitate software

Monolithic vs. SOA vs. Microservices



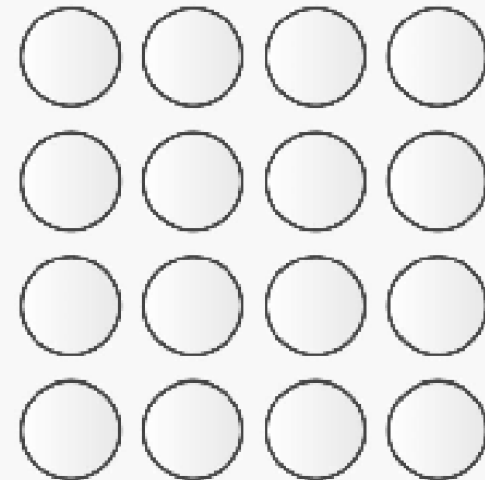
Monolithic

Single Unit



SOA

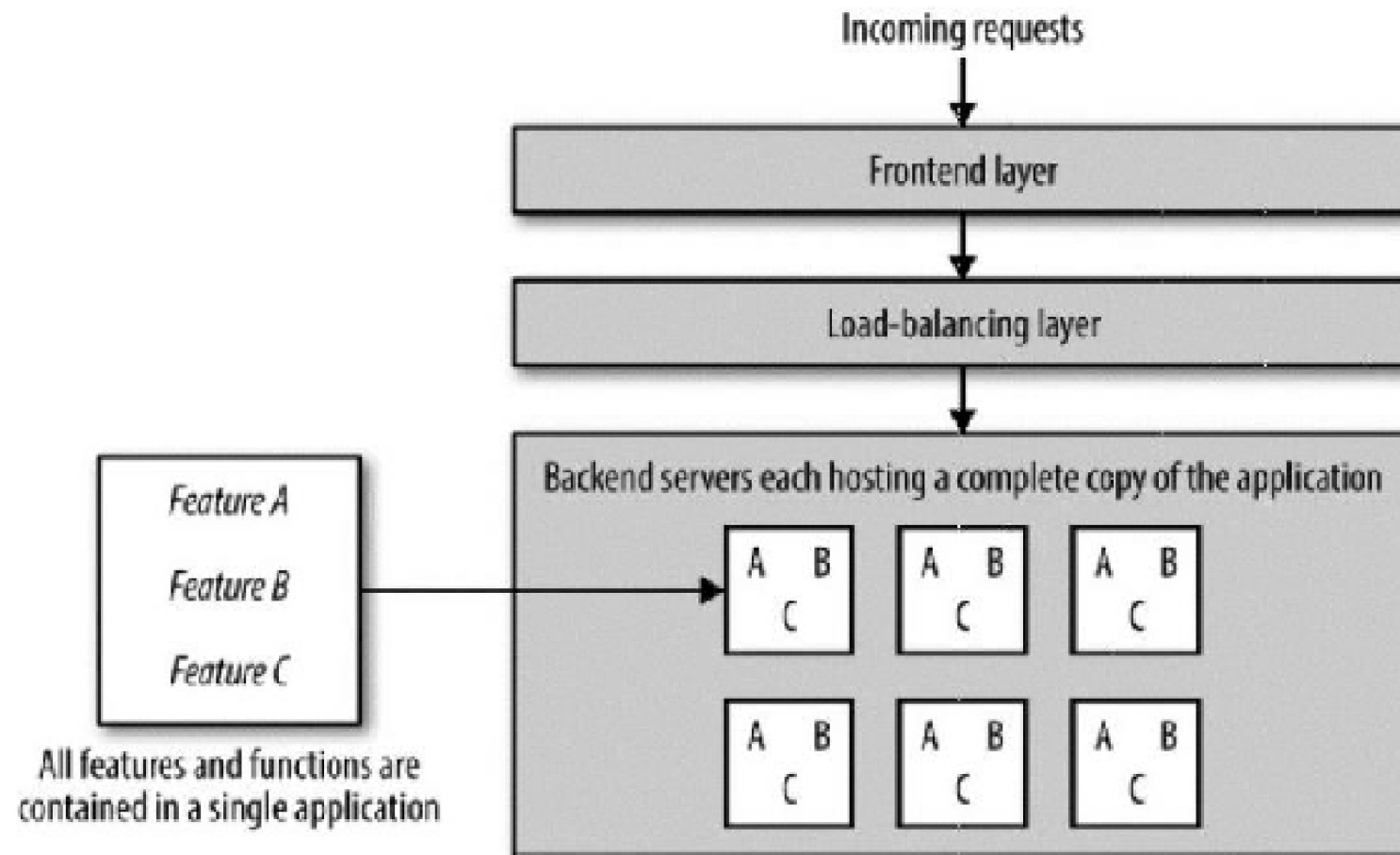
Coarse-grained



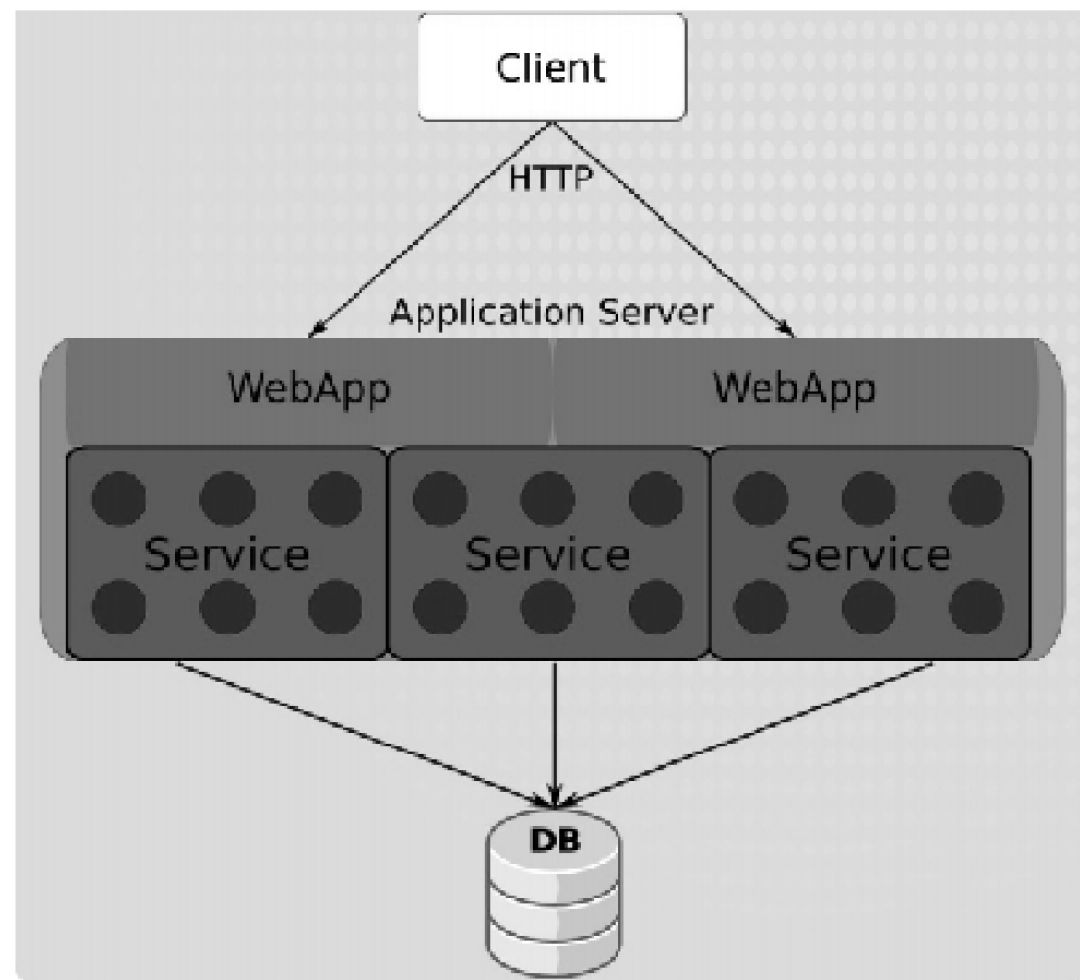
Microservices

Fine-grained

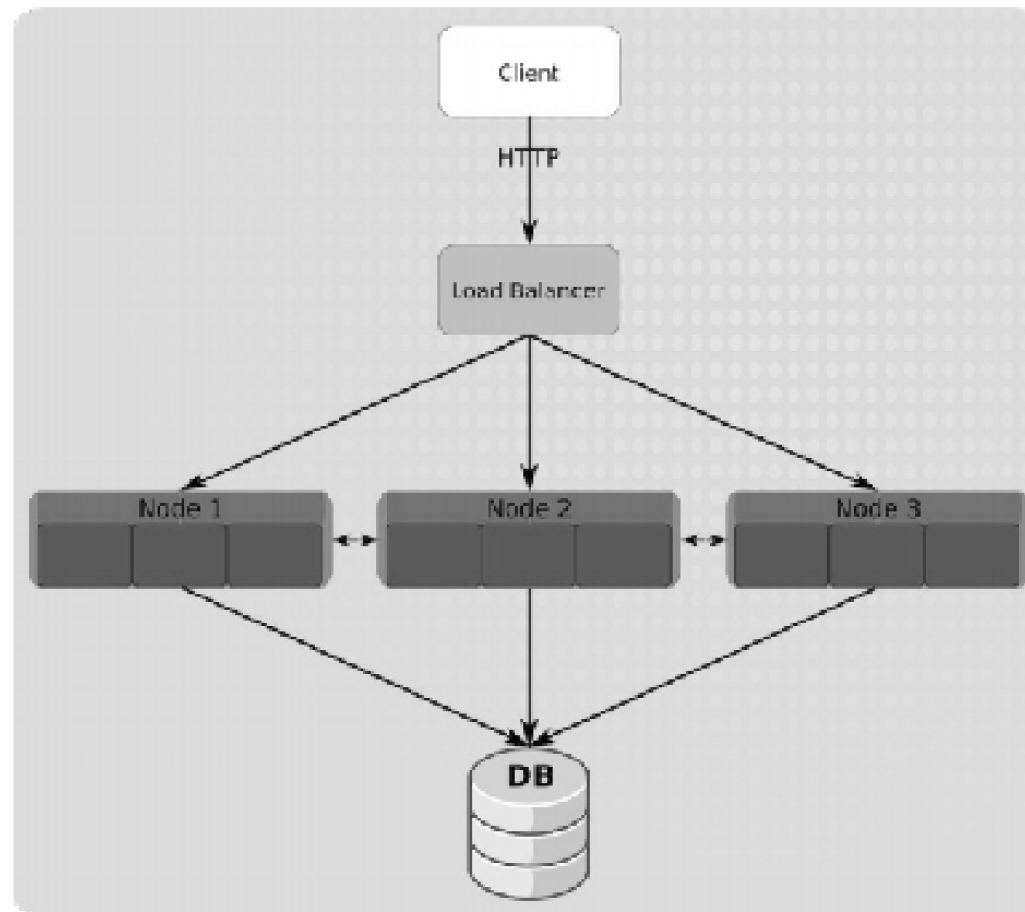
Application monolith



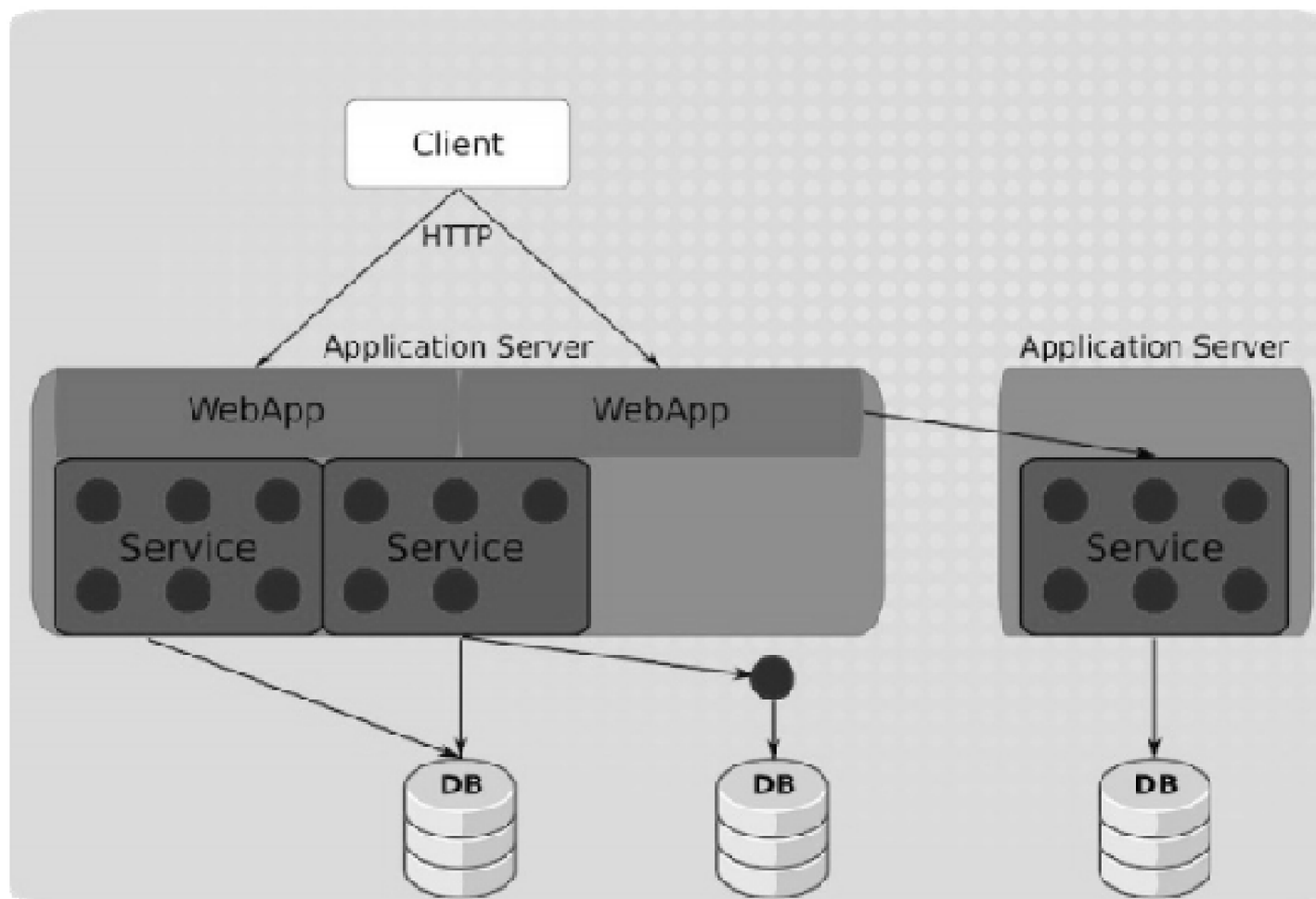
Cârpăcirea monoliților



Cârpăcirea monoliților

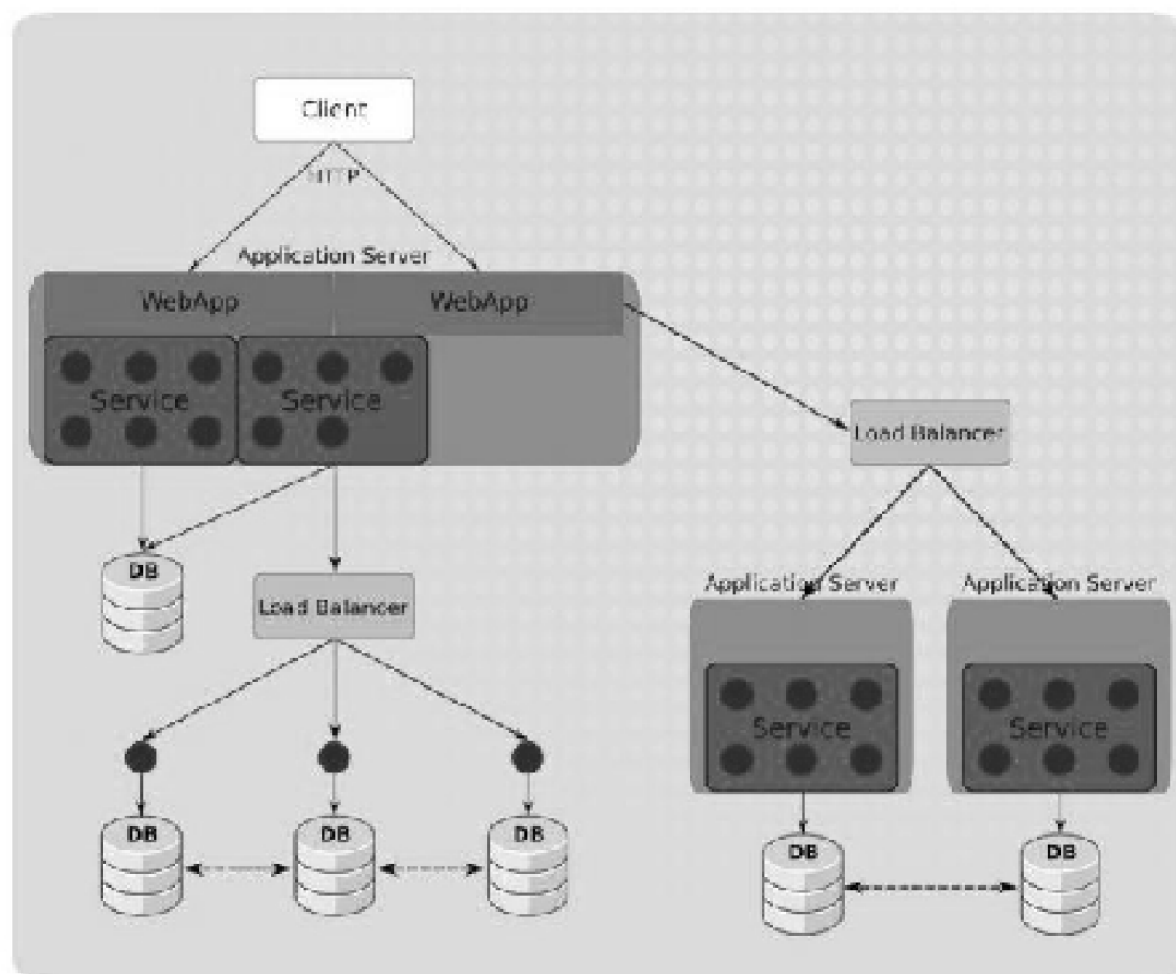


Microservicii tactice

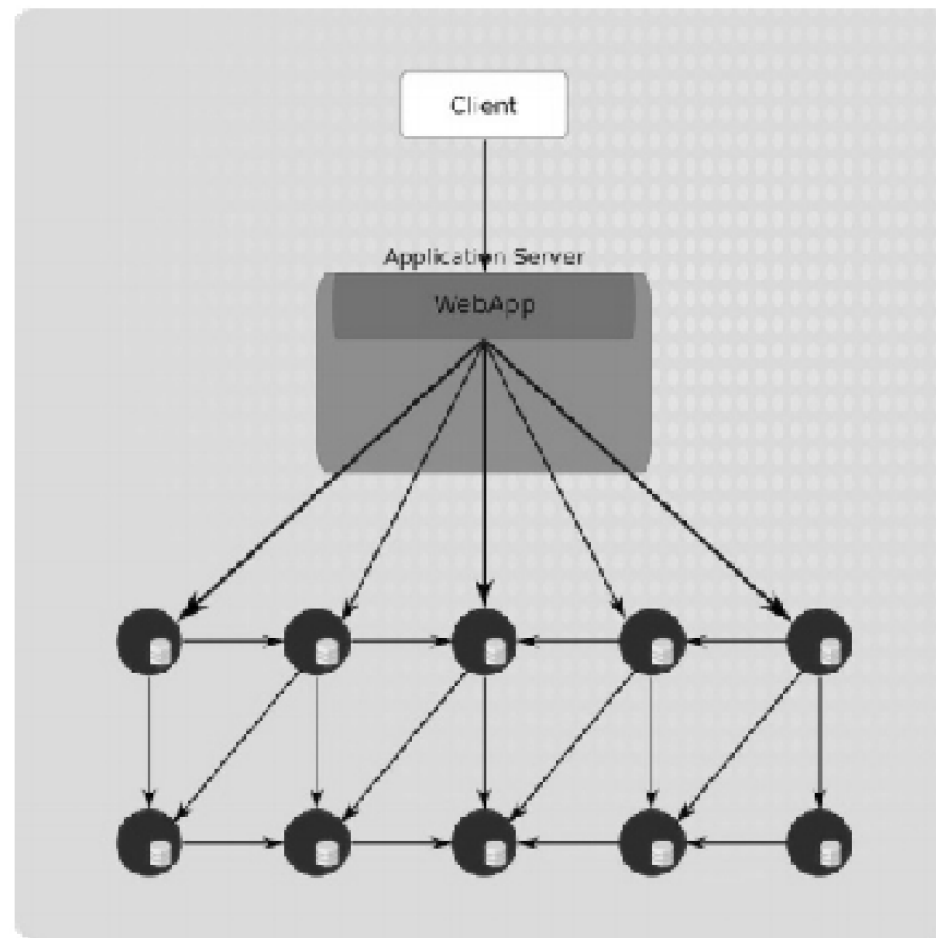


Strategii de trecere la utilizarea microserviciilor

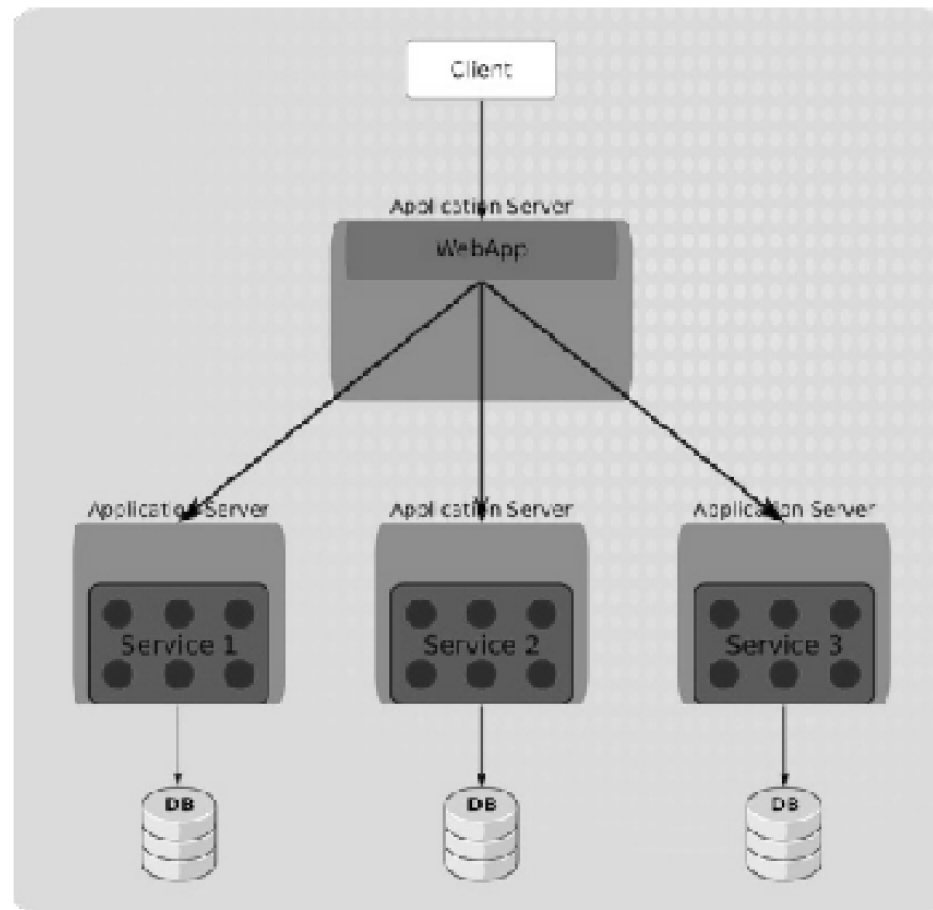
Strategii de trecere la utilizarea microserviciilor



Microservicii strategice

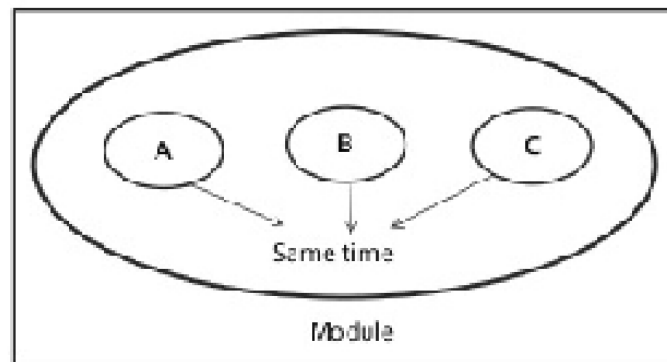


Business-Driven Microservices

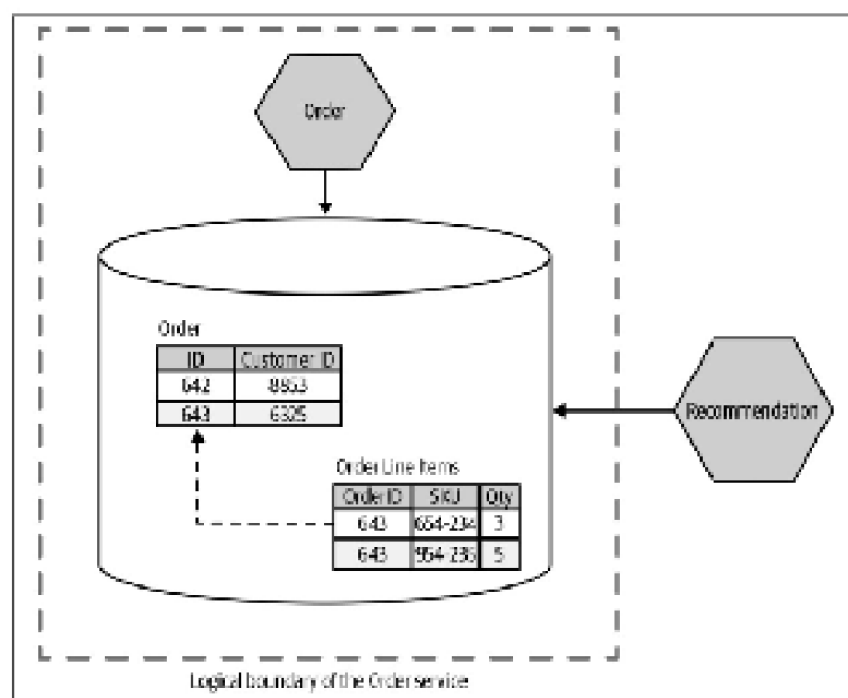


Ascunderea informației

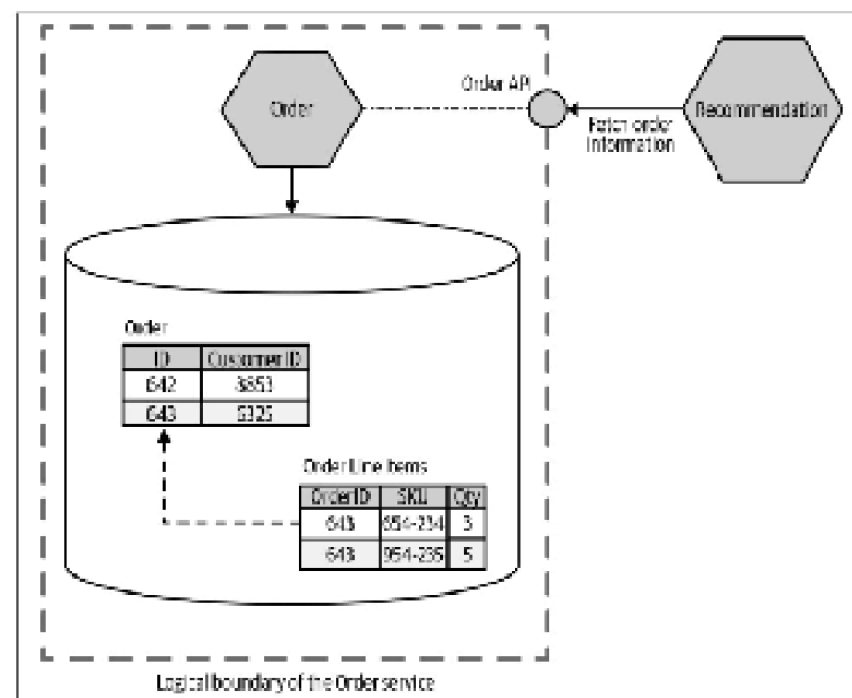
Cohesion: A natural extension of the information hiding concept a module may perform a number of tasks. A cohesive module performs a single task in a procedure with little interactions with others.



Cuplarea în implementare

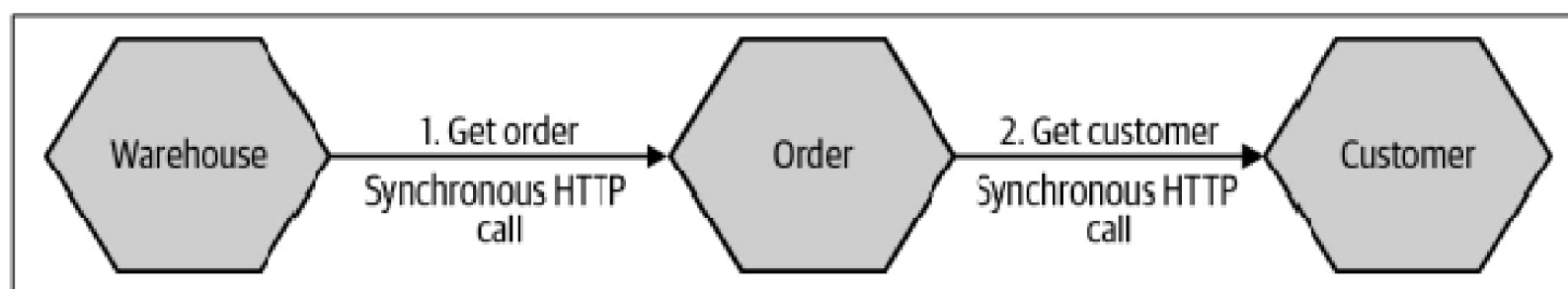


înainte

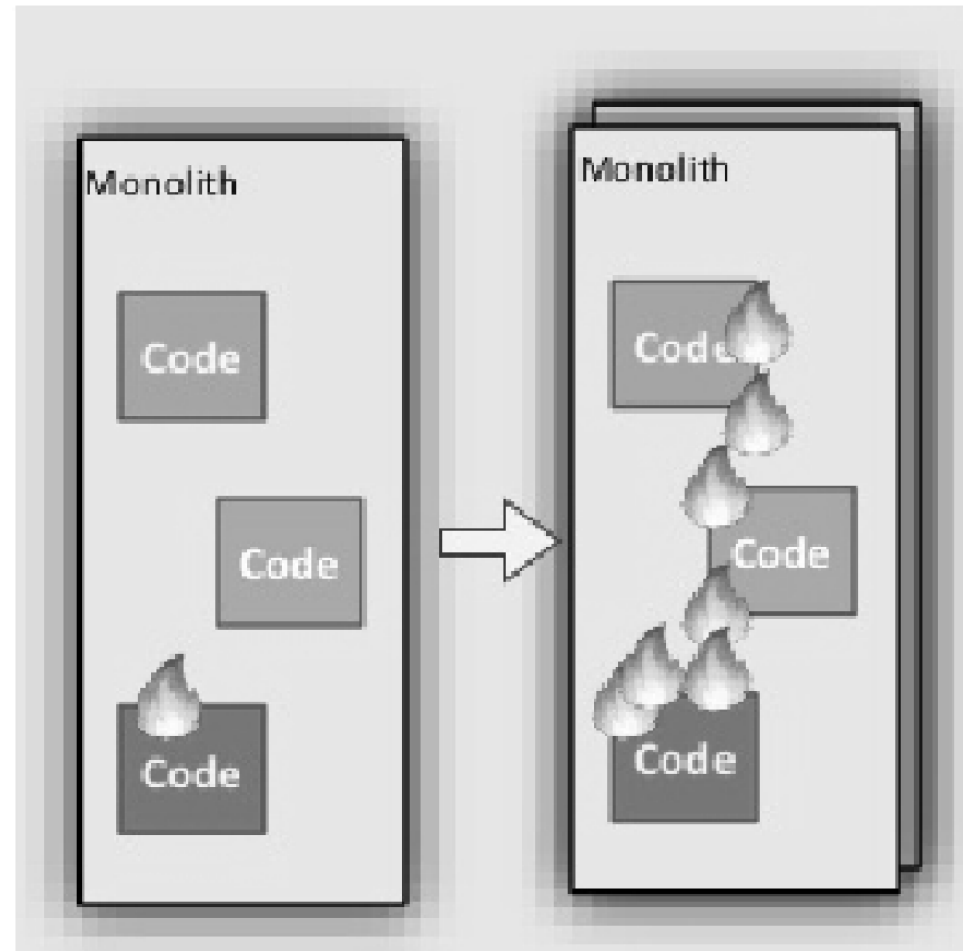


după

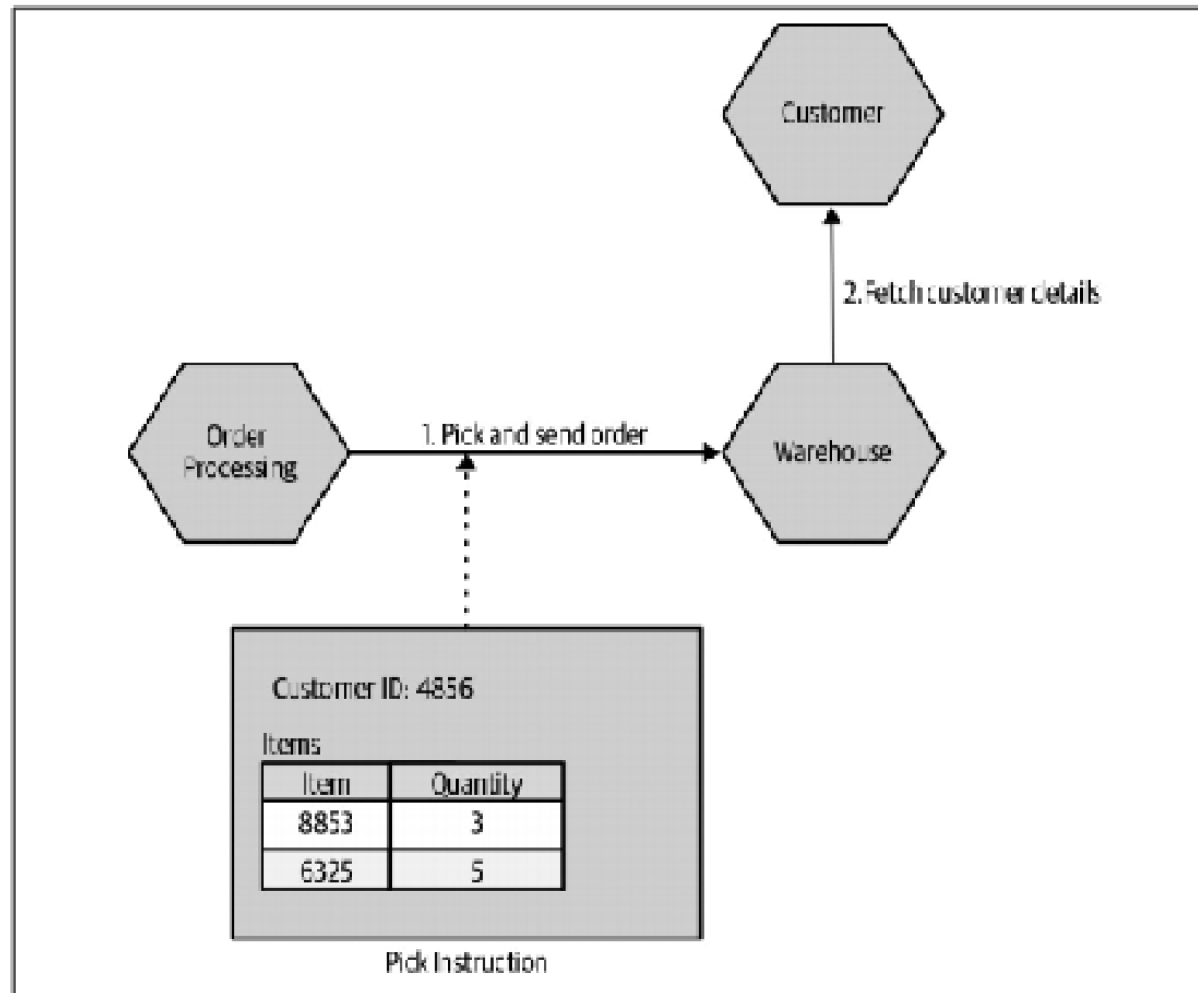
Cuplare temporală



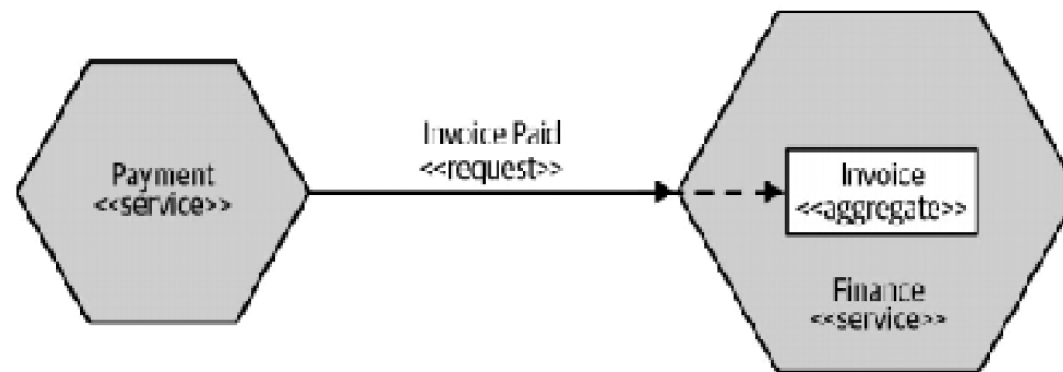
Cuplarea la instalare



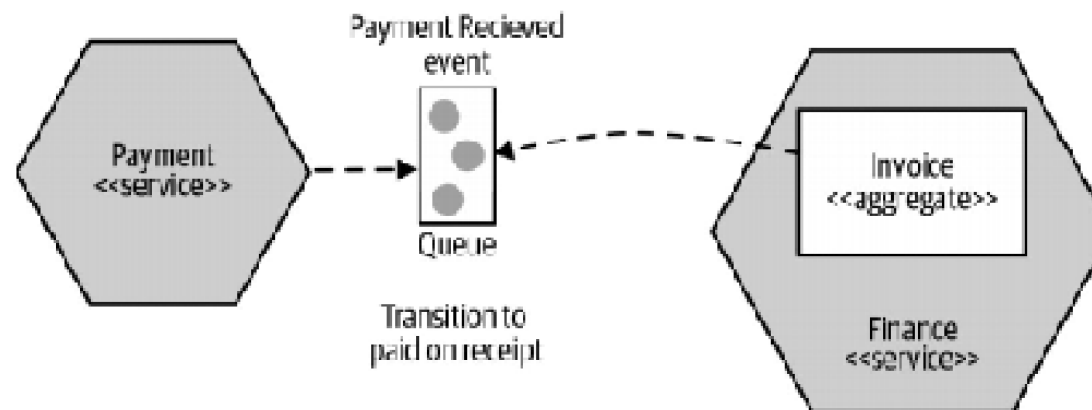
Cuplarea domeniilor - soluția 1



Agregatul

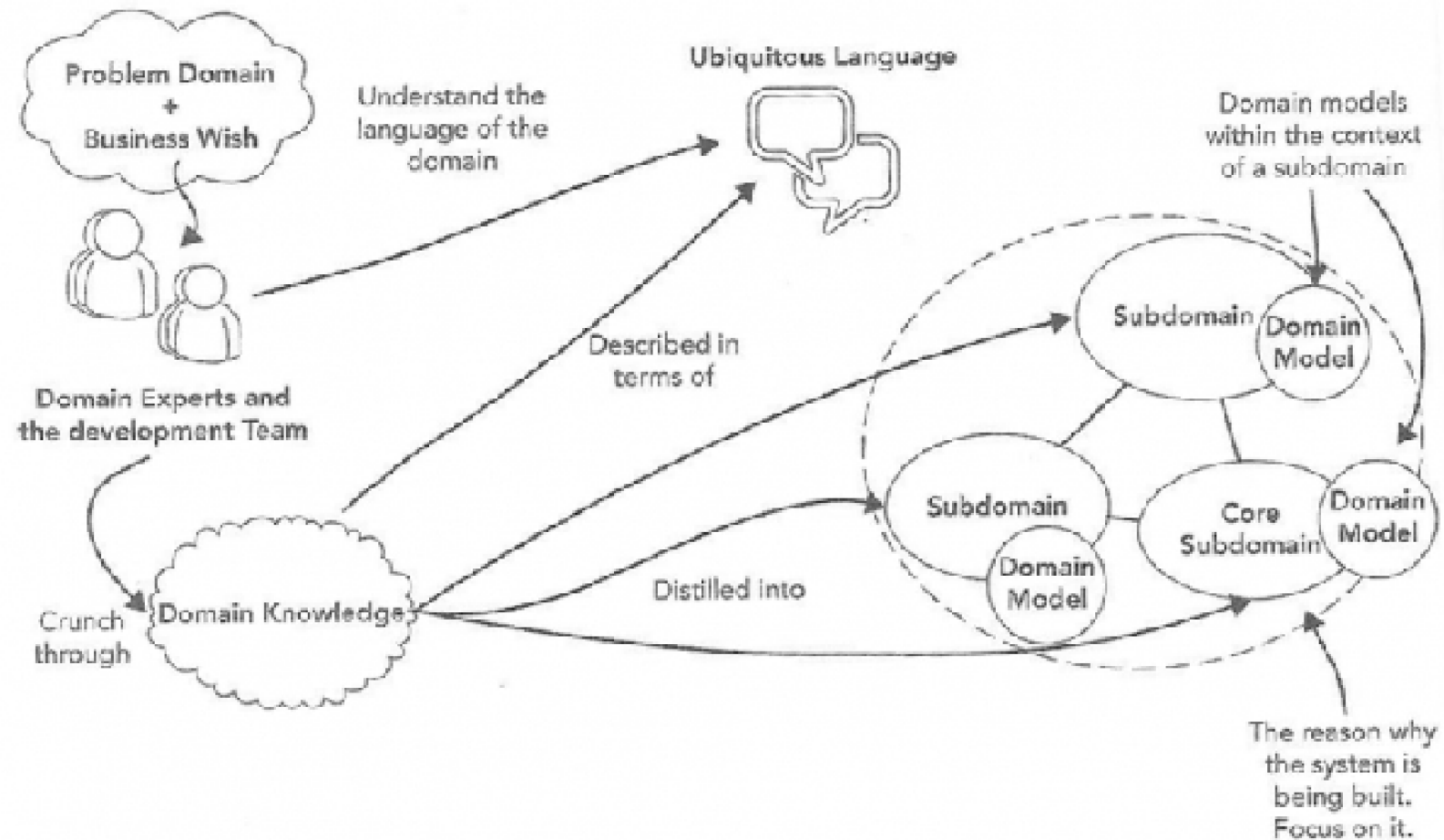


Sending a request to initiate a state transition in an invoice

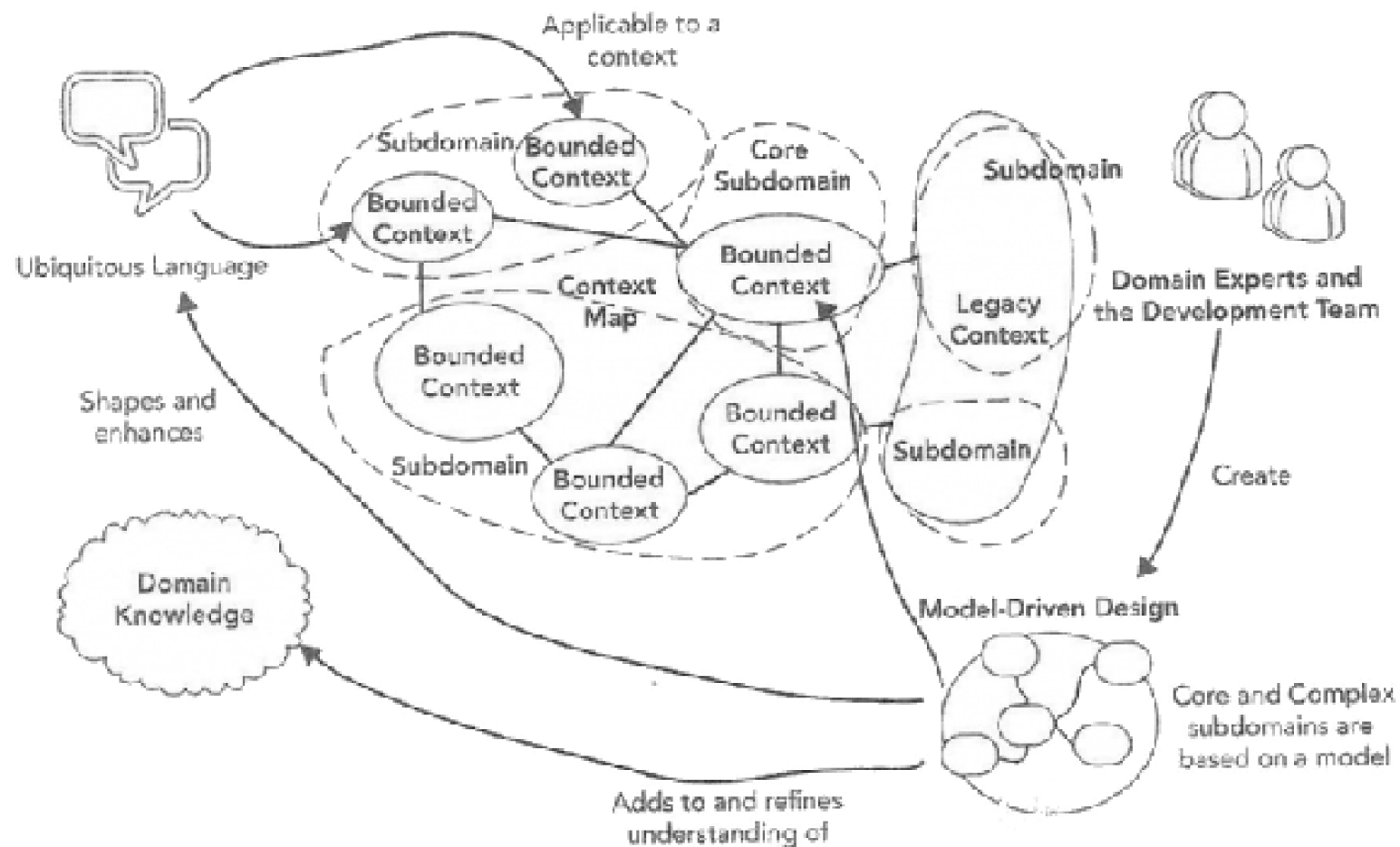


Invoice initiates state transition based on receiving an appropriate event

Context mărginit



Agregat, context mărginit, microservicii



Categoria: ce-i cu API-urile astea ???

- Apucături vechi
- Interoperabilitate cu soluții vechi
- Utilizare cu justificare
- API spaghetti