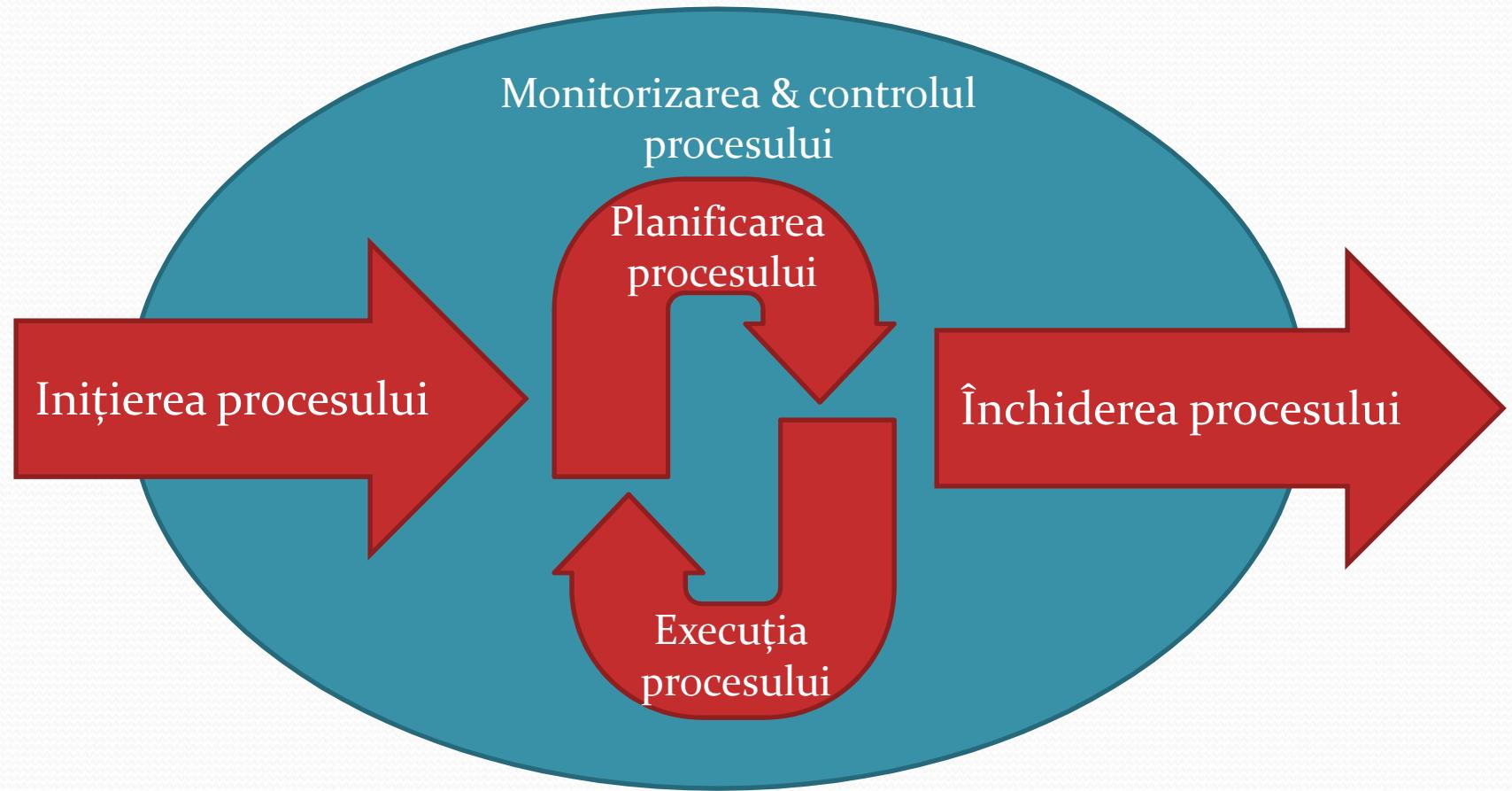


Software Engineering (Ingineria Sistemelor Soft)

Curs 7

Procese de execuție a proiectelor

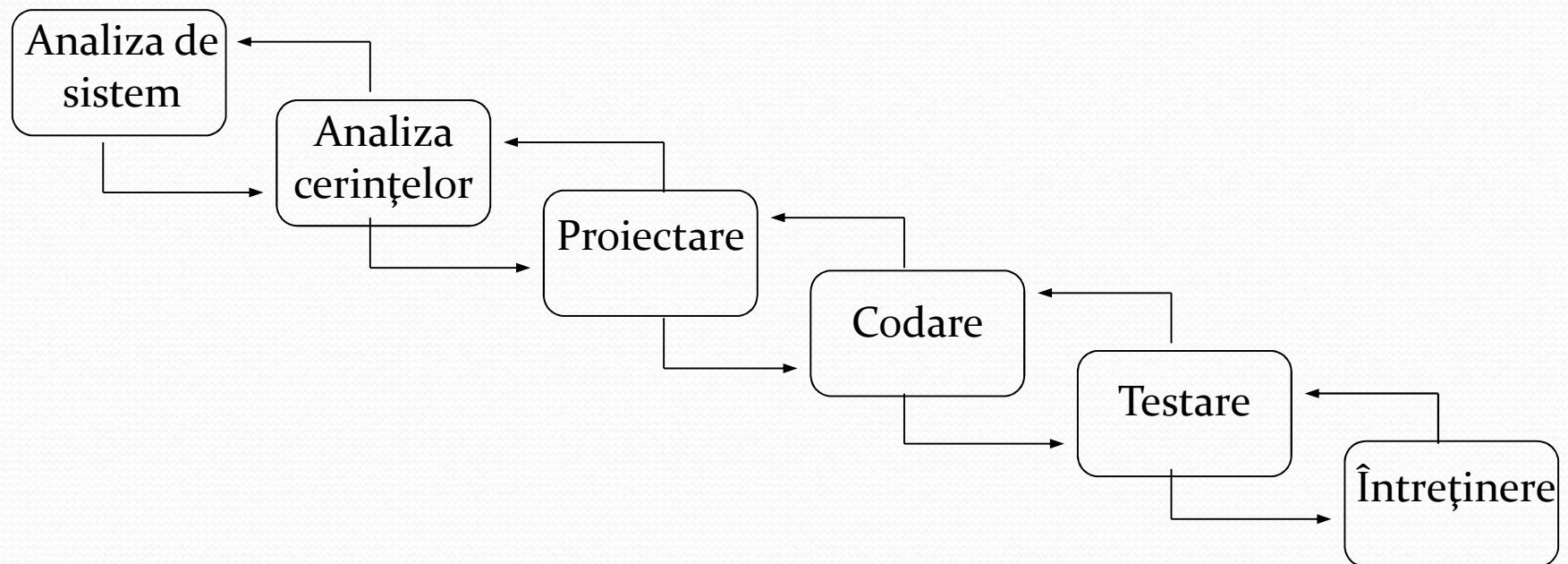
Lector dr. Pop Andreea-Diana



Procesul de execuție - etape

- Realizare / dezvoltare produs
- Emiterea ordinelor de schimbare
- Analiza situației proiectului
- Rapoarte asupra proiectului
- Revizuiri asupra bugetelor și planificărilor

Modelul clasic de dezvoltare a softului



Diagrame UML utilizate în fază de proiectare

- Diagrama cazurilor de utilizare
 - Diagrama de colaborare
 - Diagrama de secvență
 - Diagrama de clase
 - Diagrama de arhitectură
- 
- Diagrame de interacțiune
- Modelul Entitate-Relație de modelare a Bazei de date

Diagrama cazurilor de utilizare

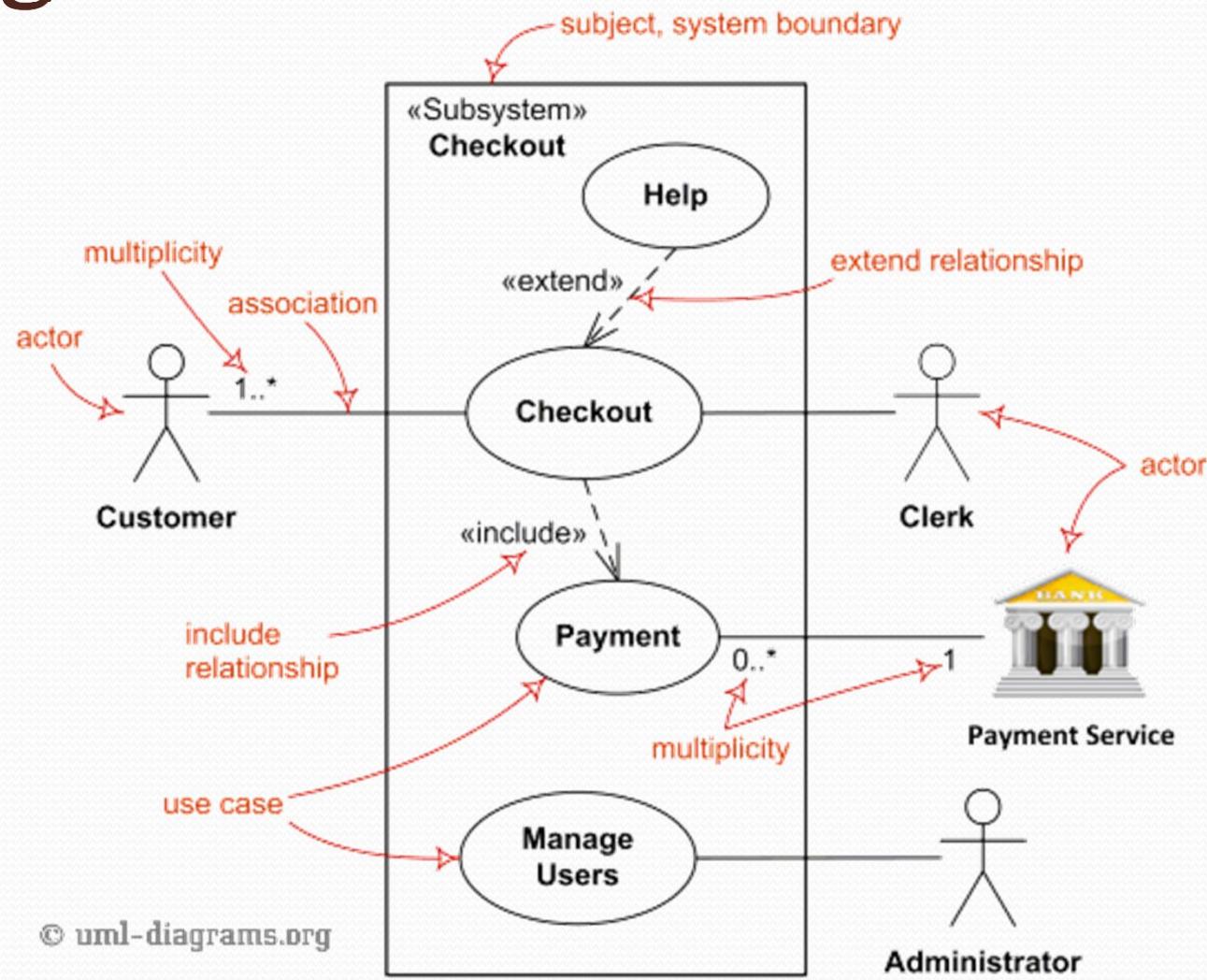


Diagrama de colaborare

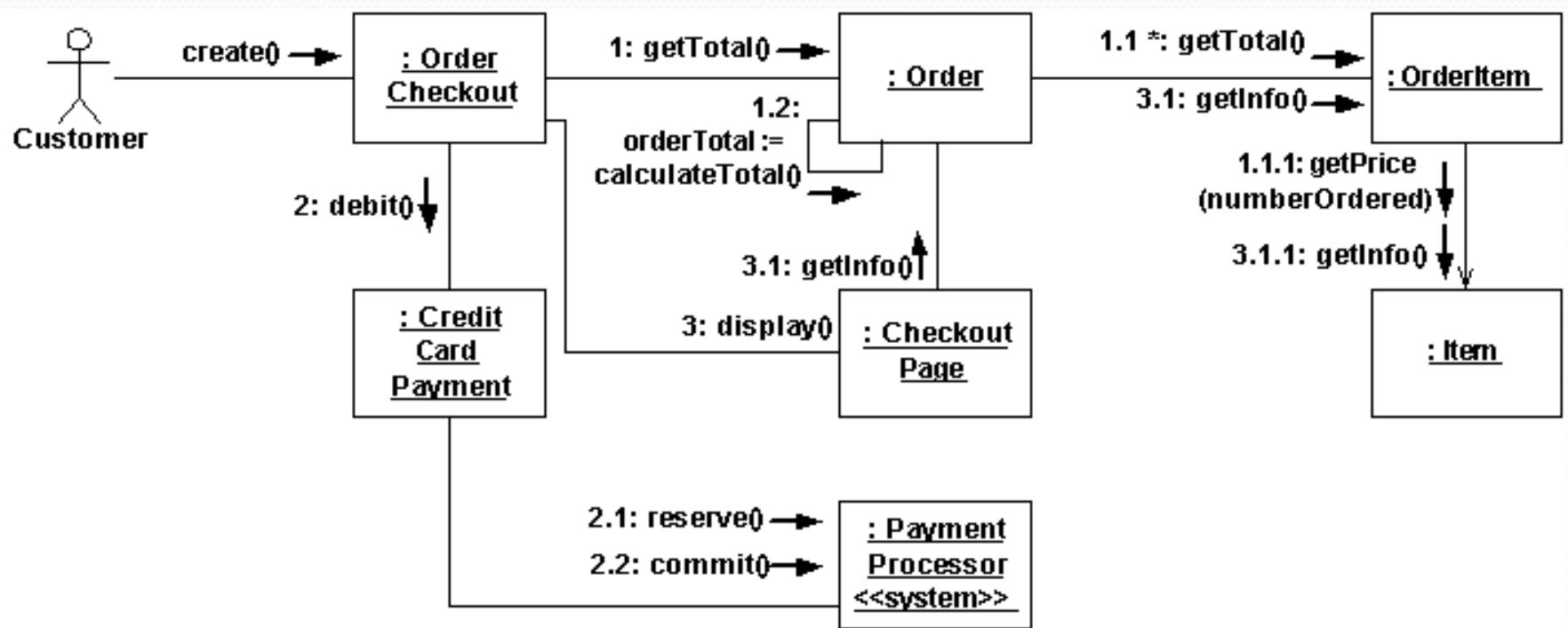


Diagrama de secvență

Log-On Scenario

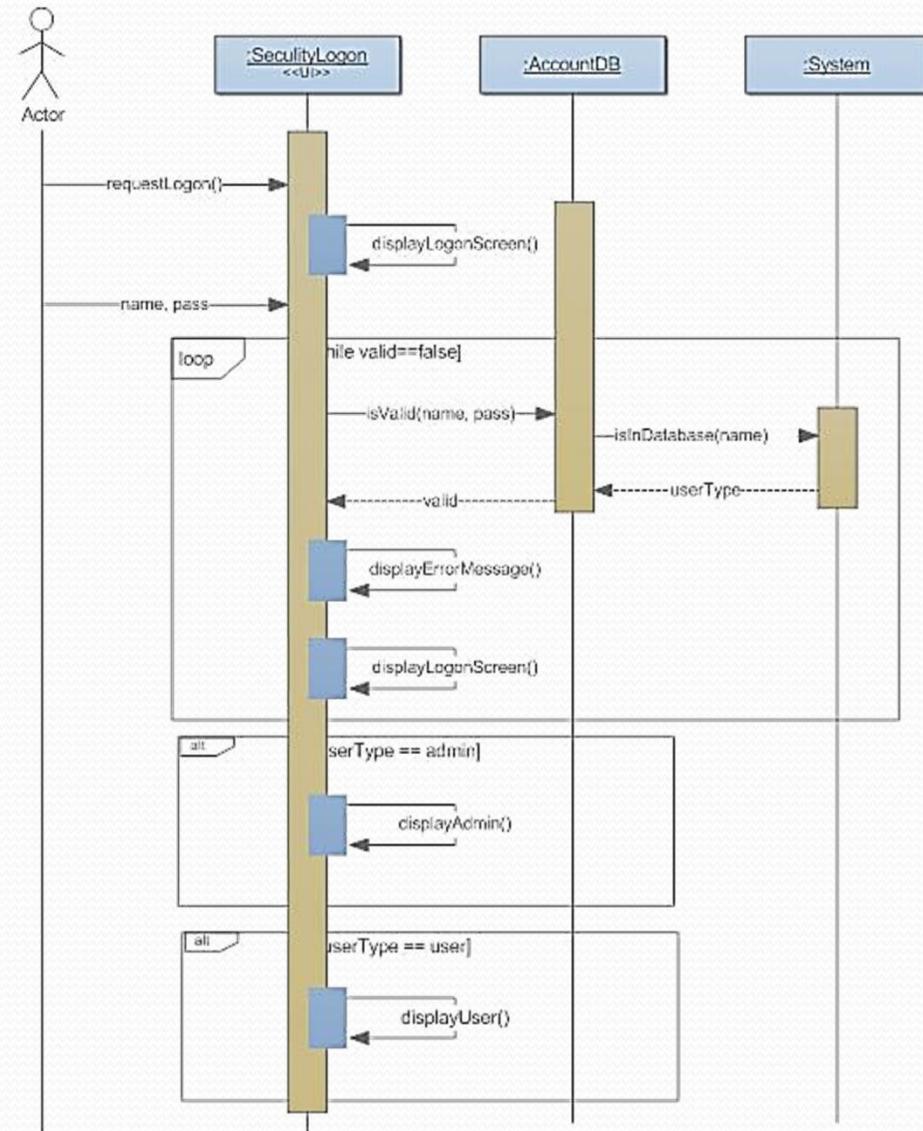
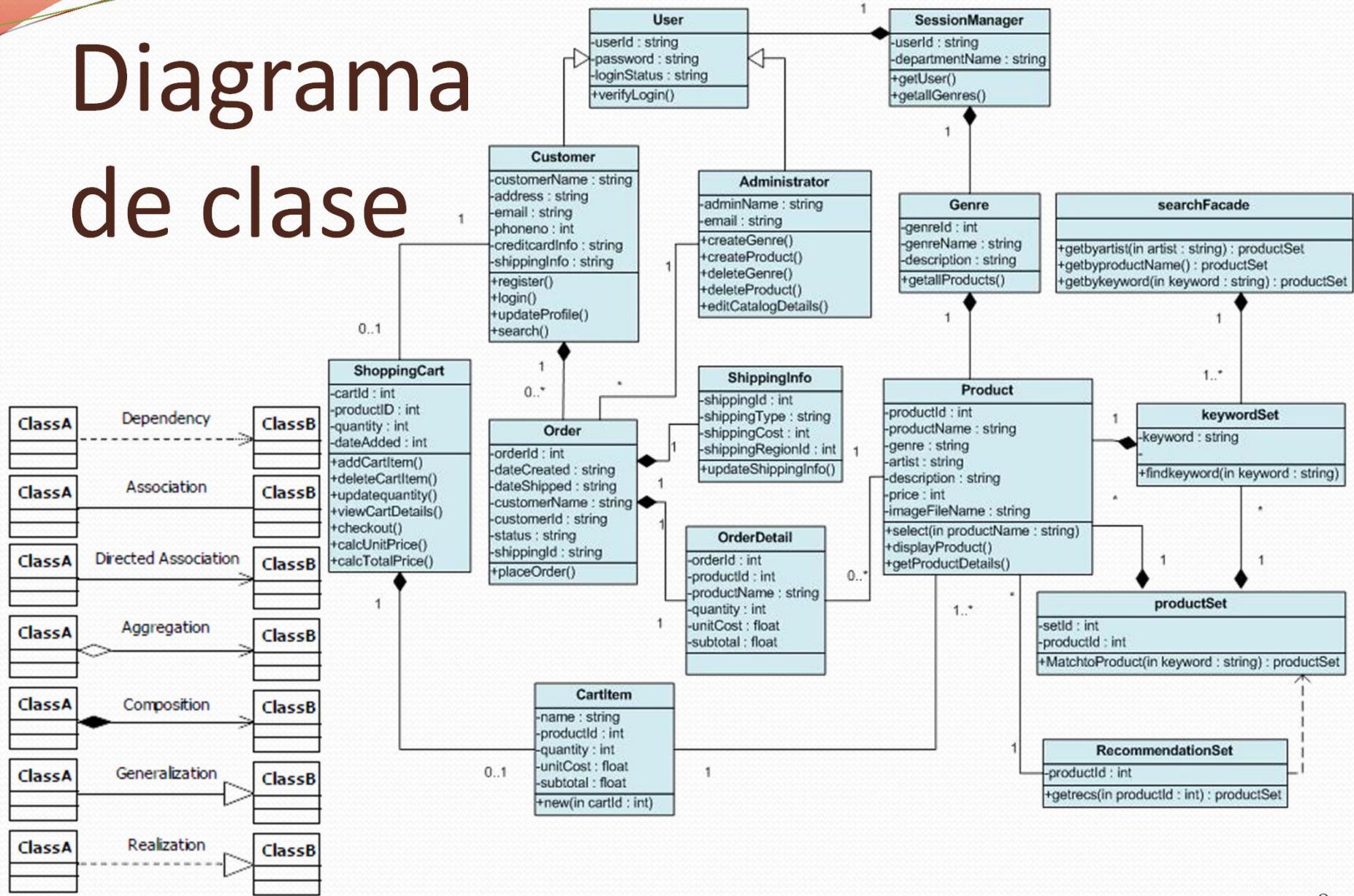


Diagrama de clase



Diagramă UML pentru componente

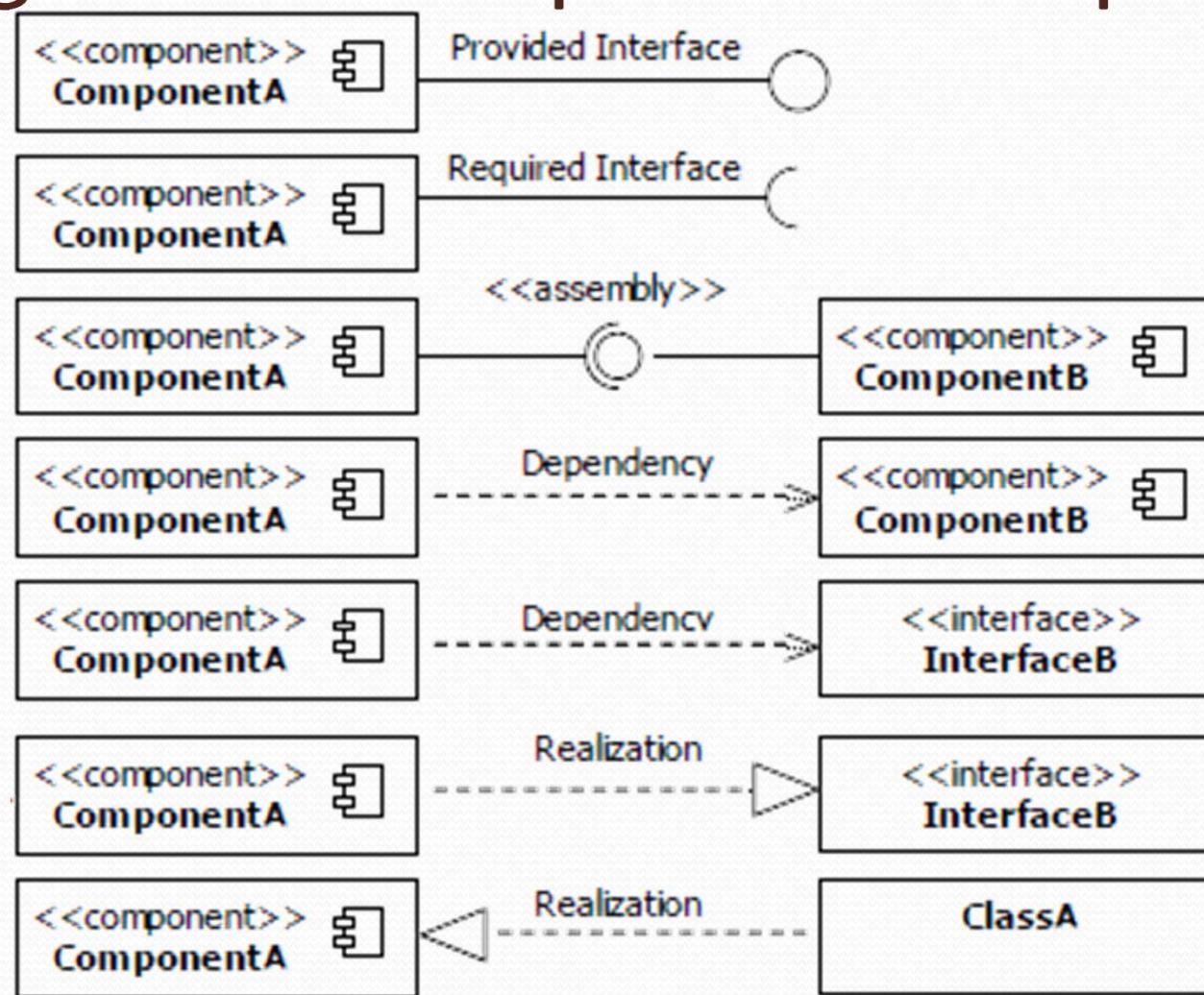
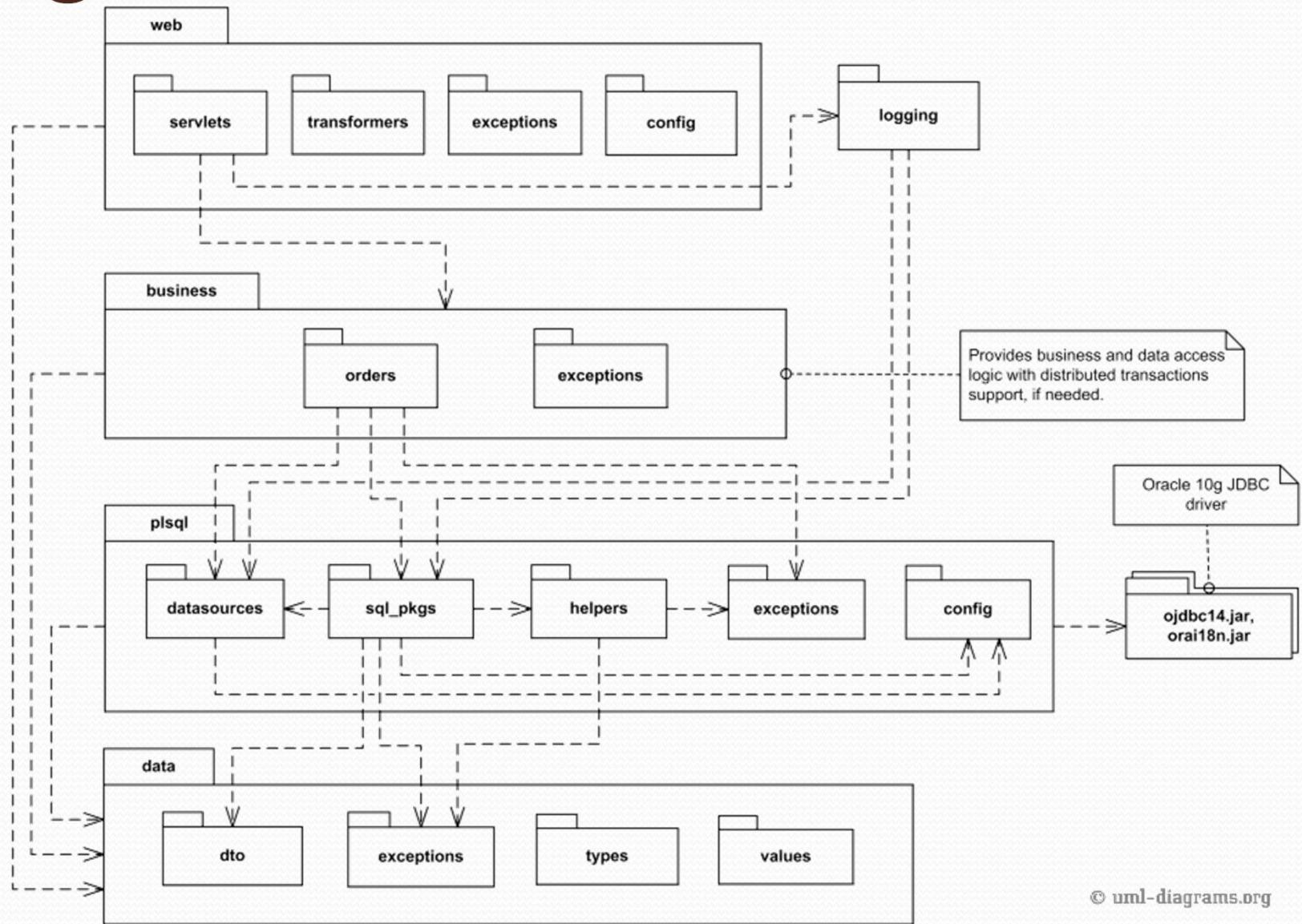
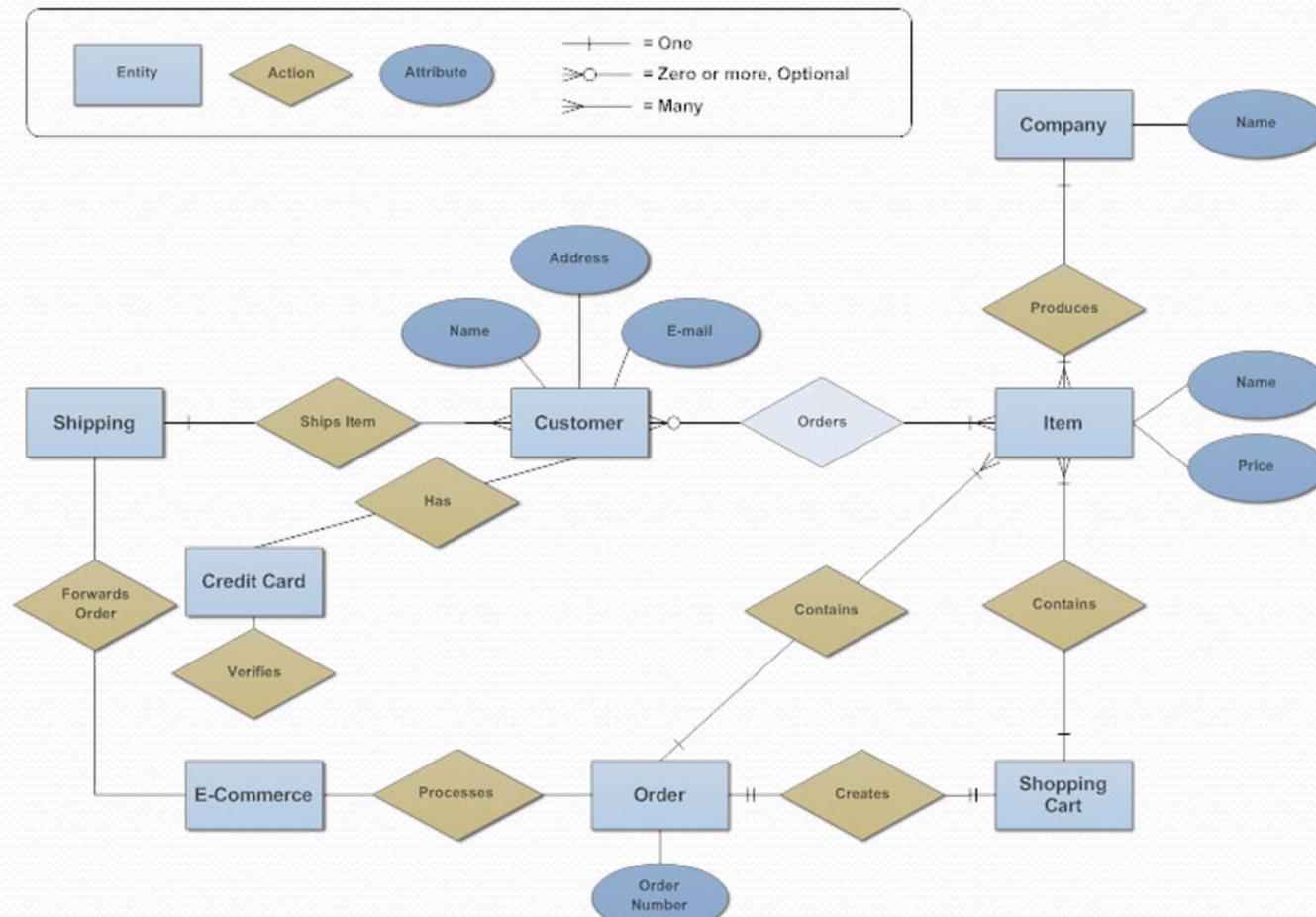


Diagrama de arhitectură



Modelul Entitate-Relație de modelare a bazelor de date

Entity Relationship Diagram - Internet Sales Model



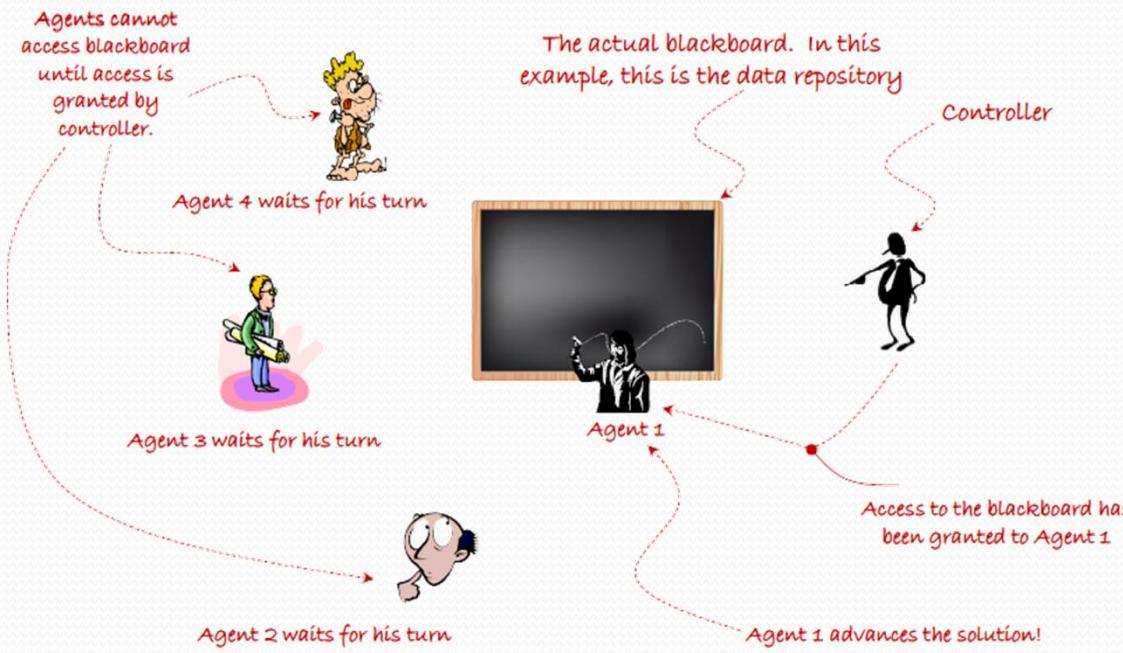
Design patterns – Șabloane de arhitectură

≈ rețete

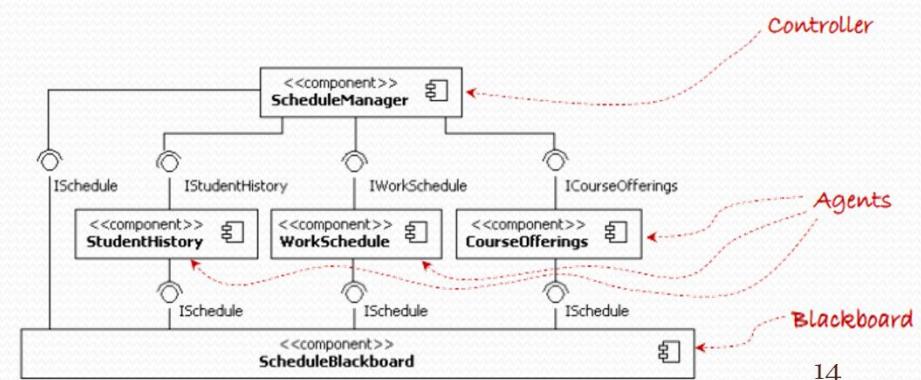
- Blackboard
- Pipes-and-Filters
- Client Server
- Broker

- Model-View-Controller
- Abstract Factory
- Builder
- Prototype
- Singleton
- Adapter
- Composite
- Facade
- Iterator
- Observer

Blackboard

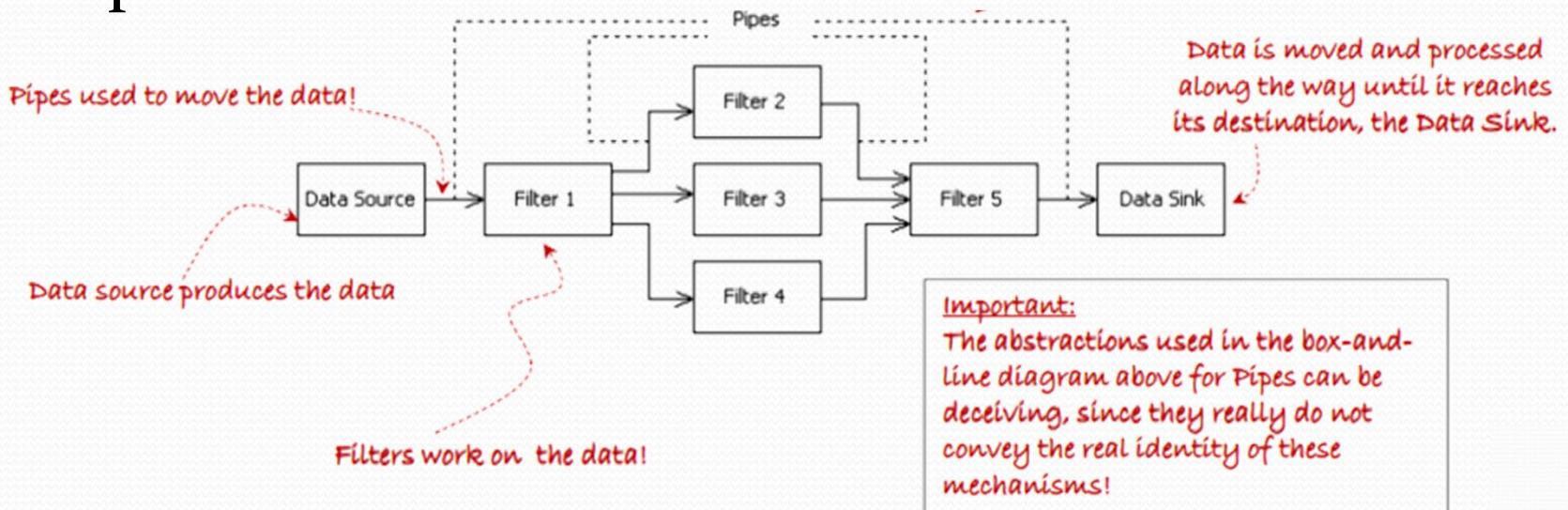


Agentii partajează aceeași resursă sub coordonarea Controller-ului



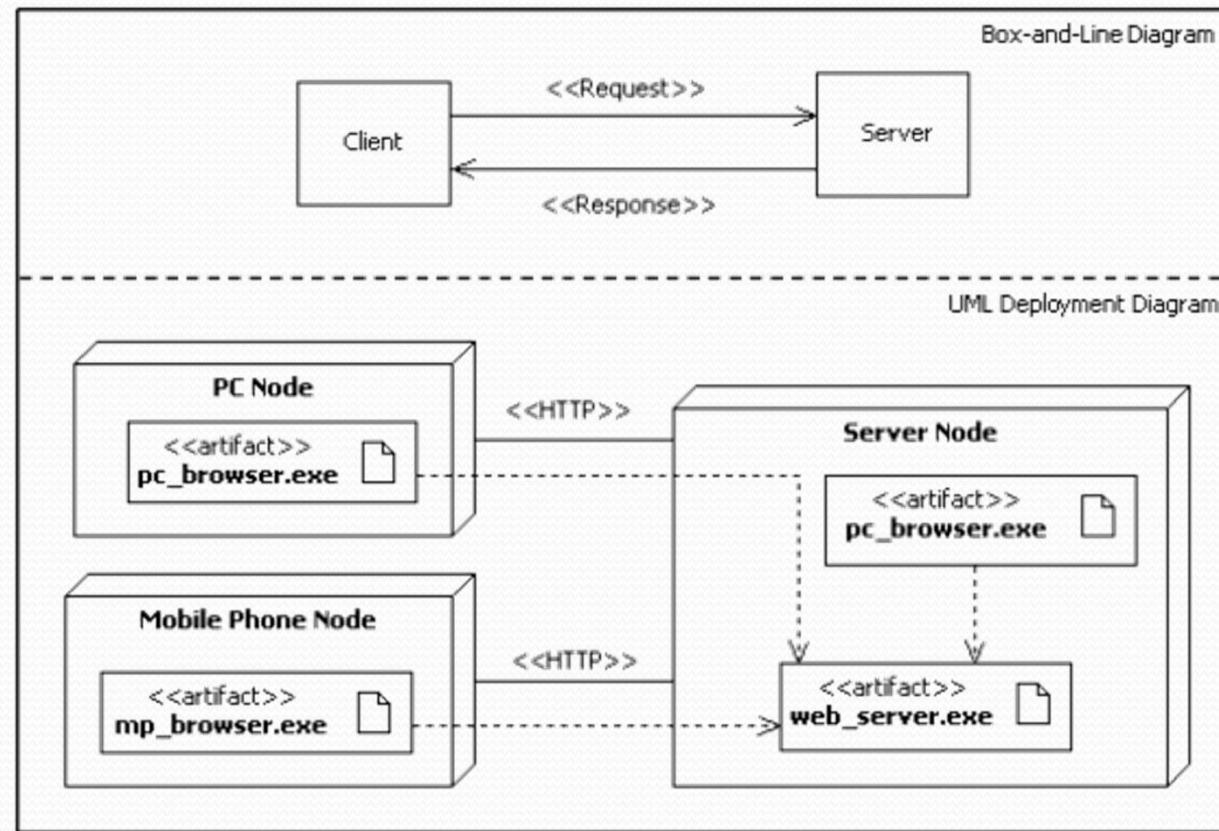
Pipes-and-Filters

Datele sunt mutate prin ”țevi” (pipes) spre senzorul de date ”Data Sink”, și pe drum pot trece prin filtre unde sunt prelucrate.



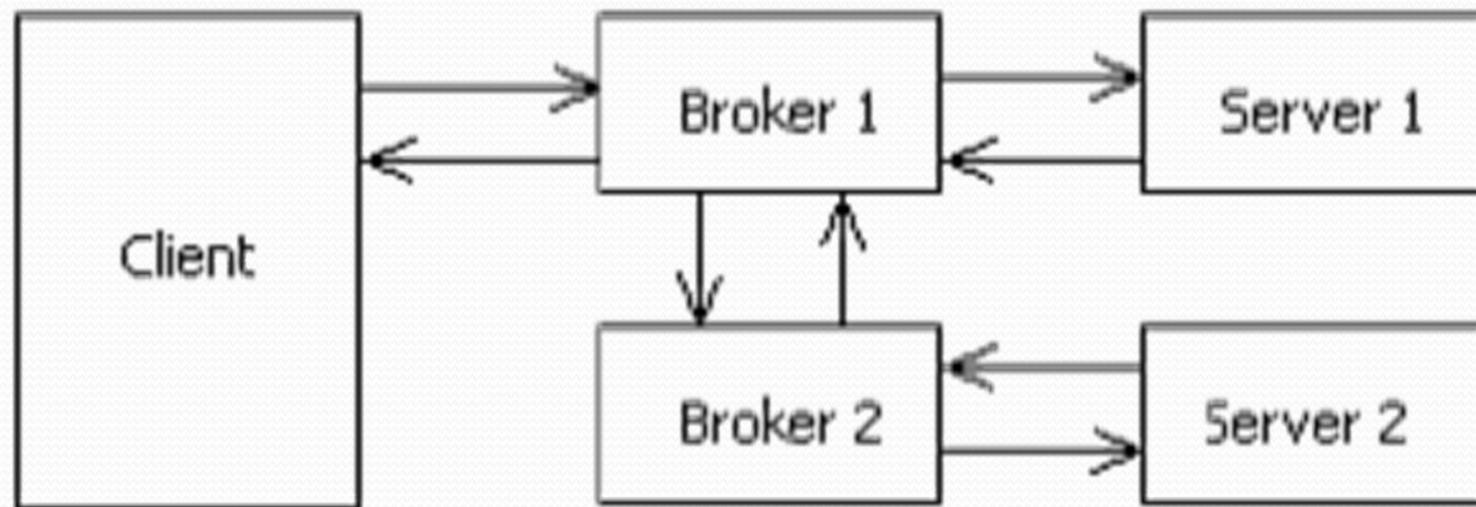
Client Server

Clientul cere un serviciu Server-ului, care îi transmite un răspuns înapoi.

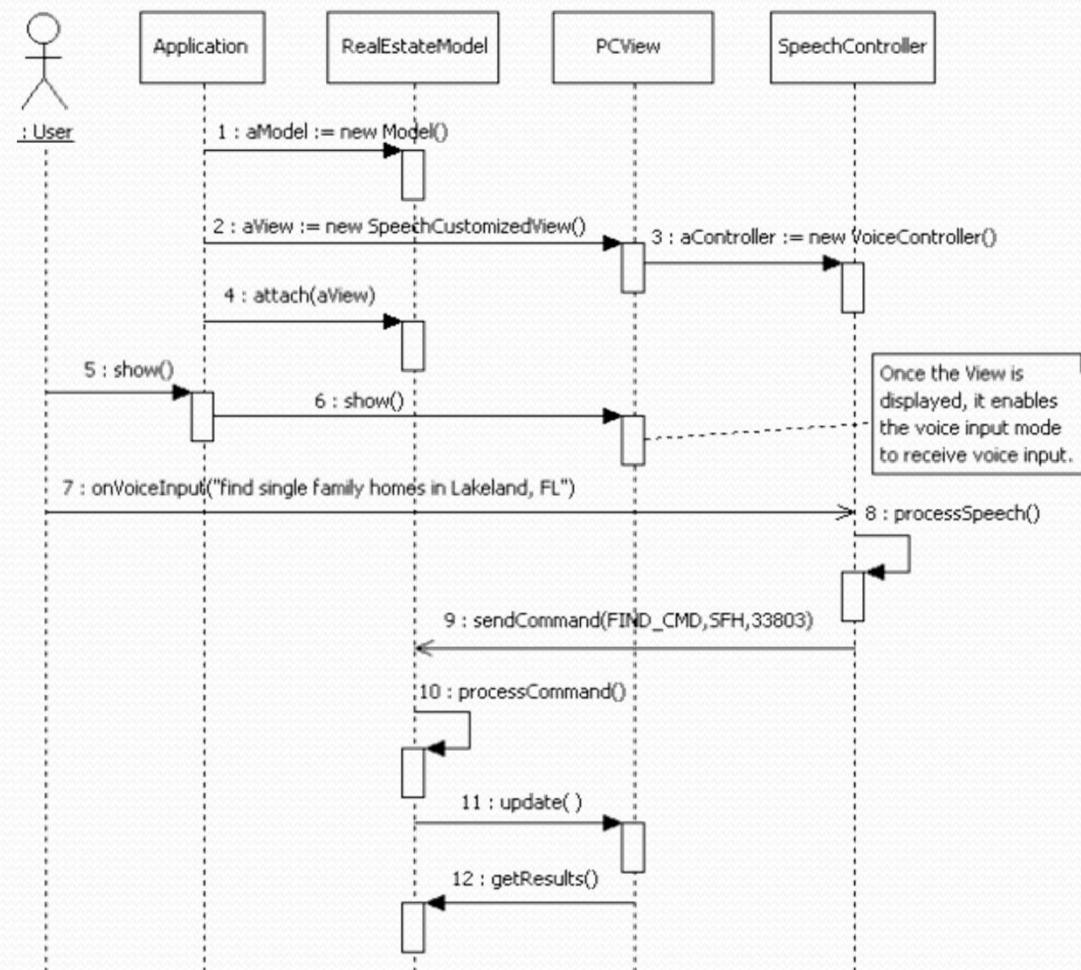


Broker

Provine din şablonul Client-Server, doar că Broker-ul mediază între ele și astfel un client poate să se conecteze la mai multe servere.

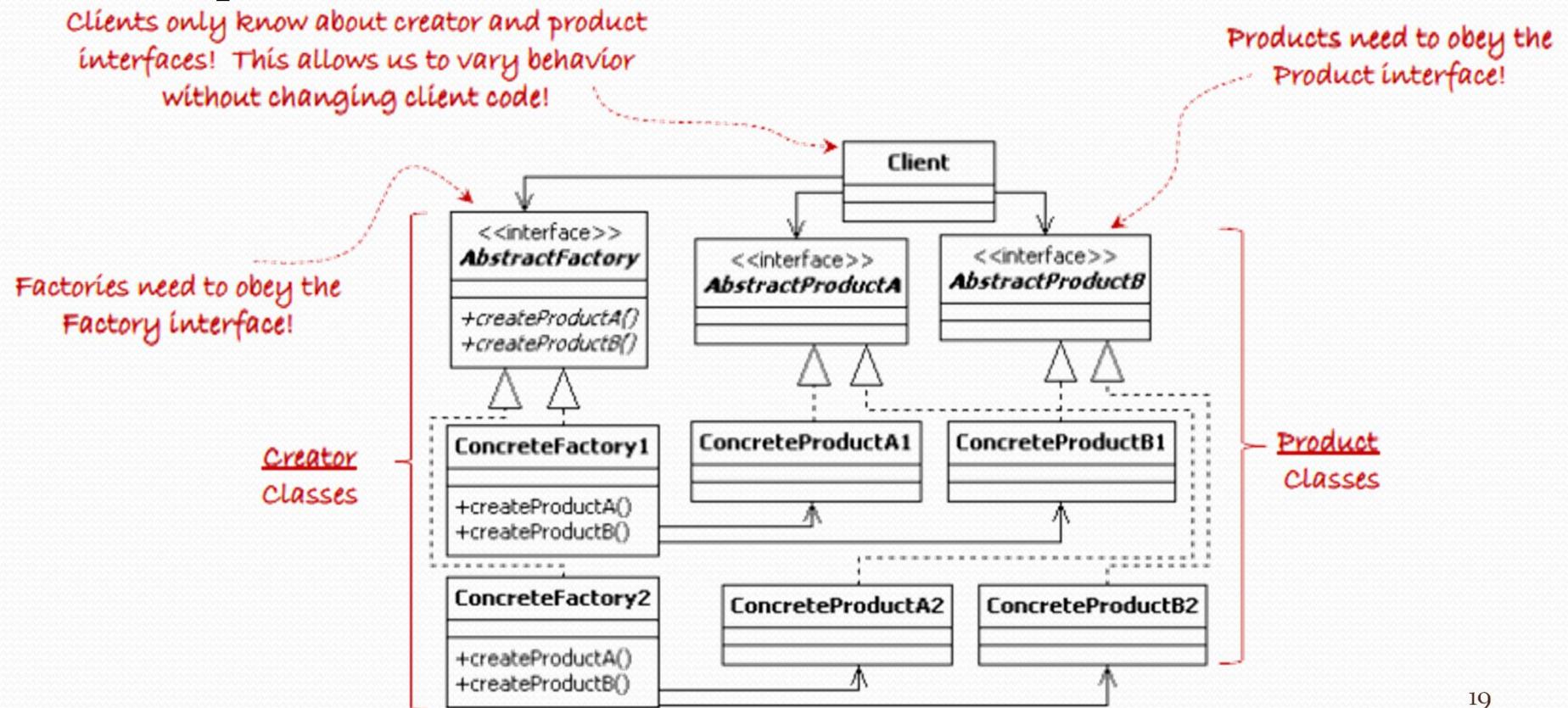


Model-View-Controller

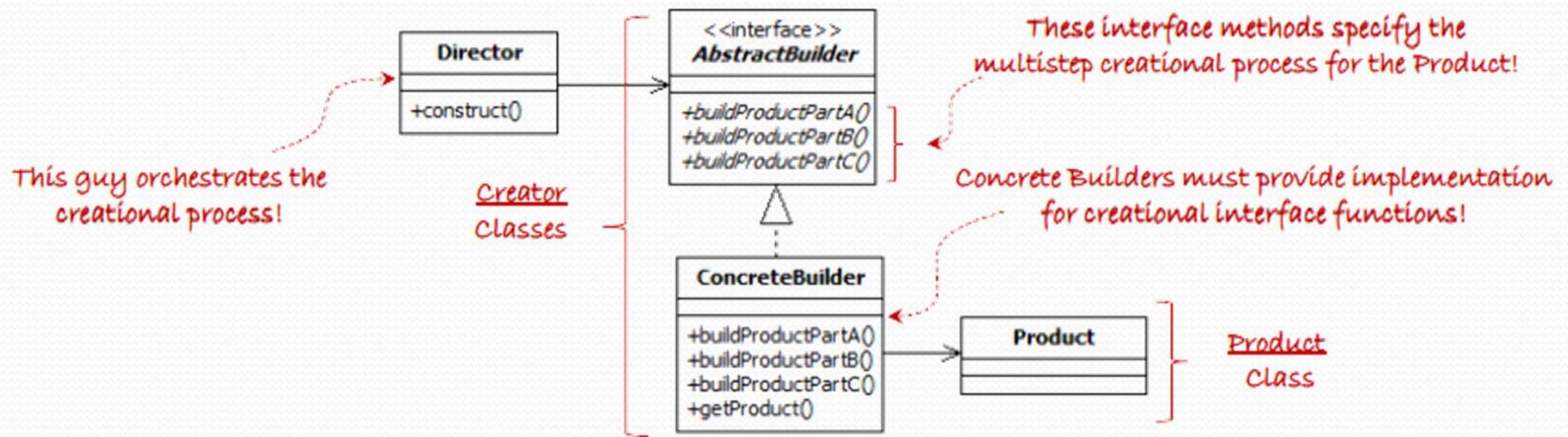


Abstract Factory

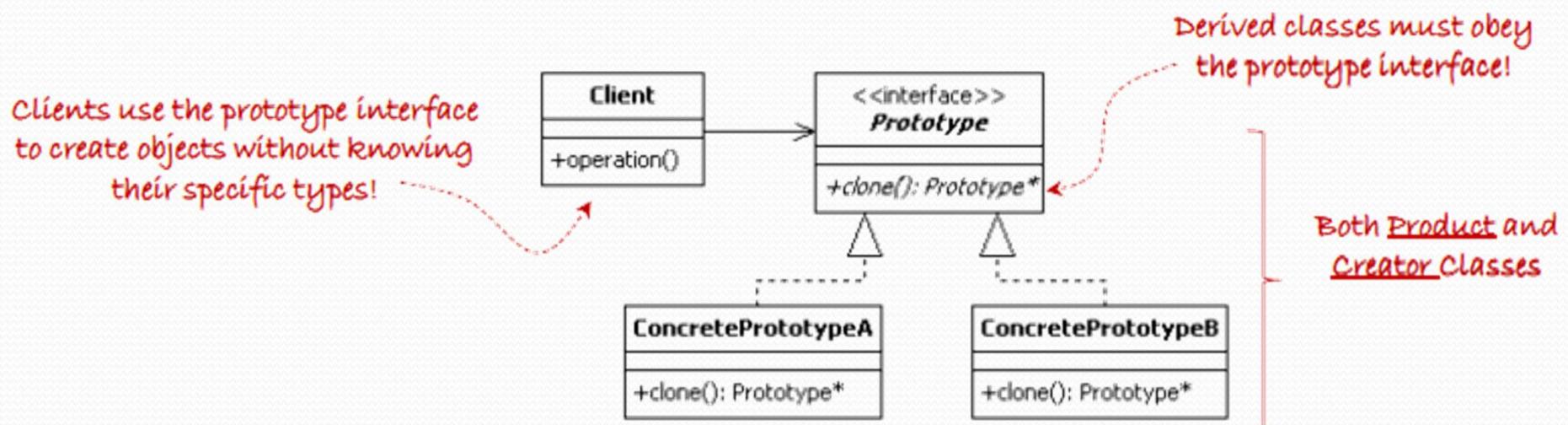
Clientul se basează pe interfață Fabricii Abstracte, lucrând cu Produse abstracte ale sale. La execuție se vor utiliza clase și obiecte (produce) derivate din cea abstractă.



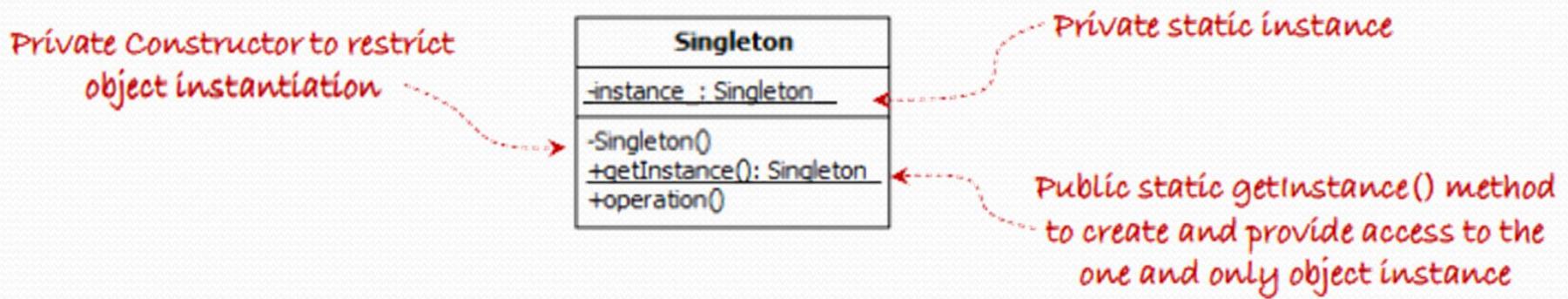
Builder



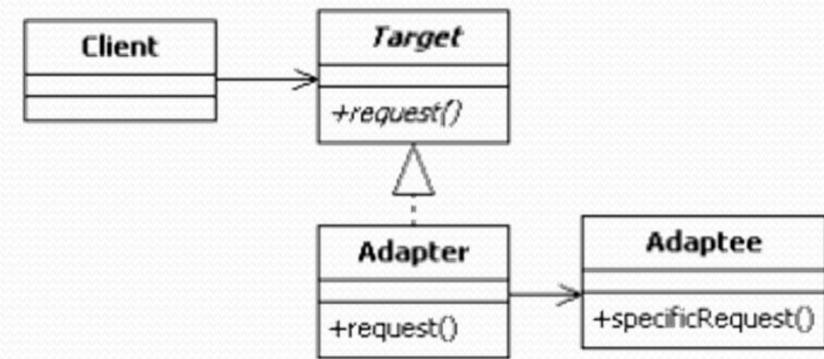
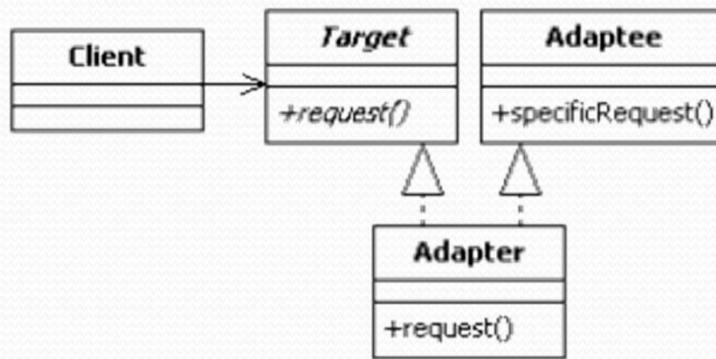
Prototype



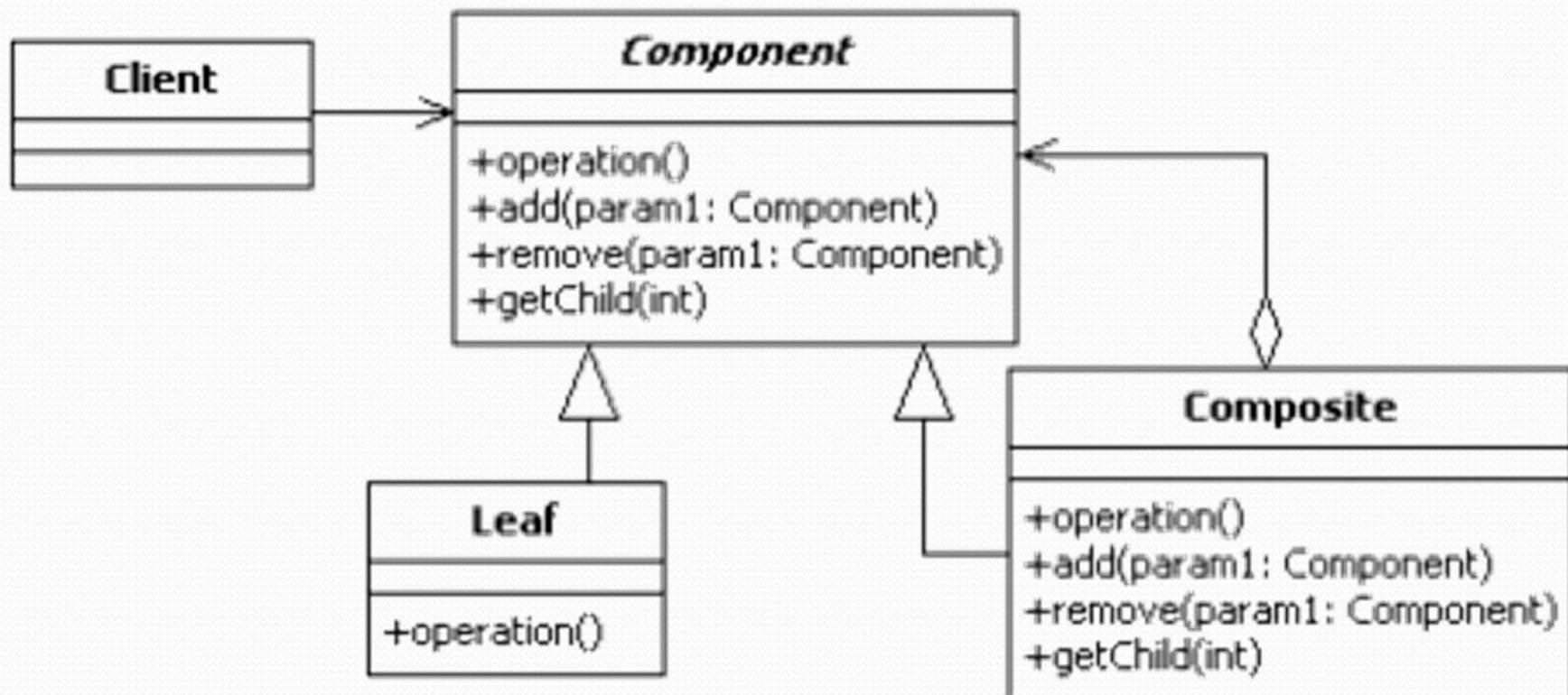
Singleton



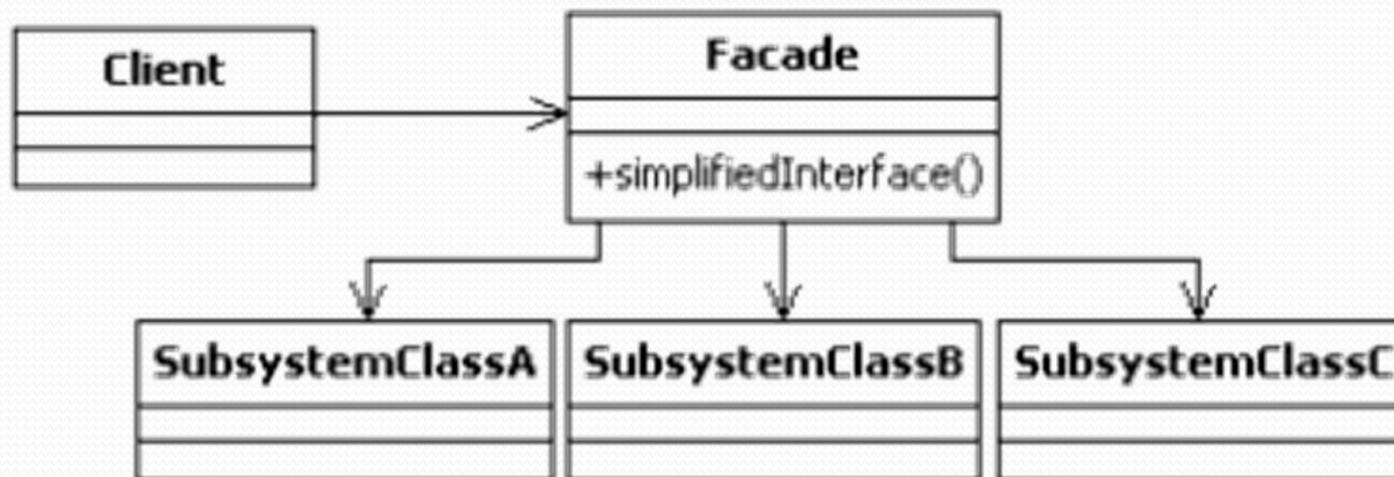
Adapter



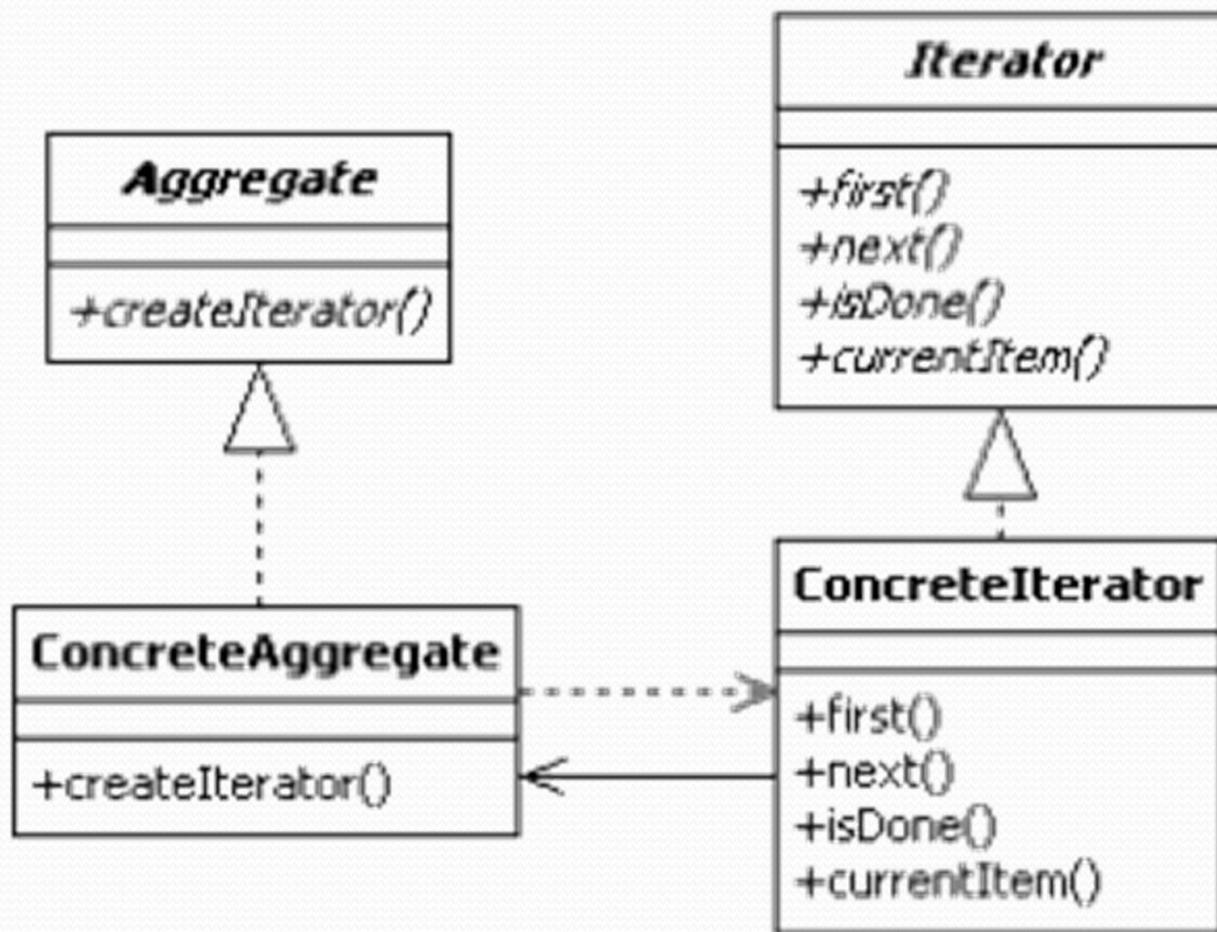
Composite



Facade



Iterator



Observer

