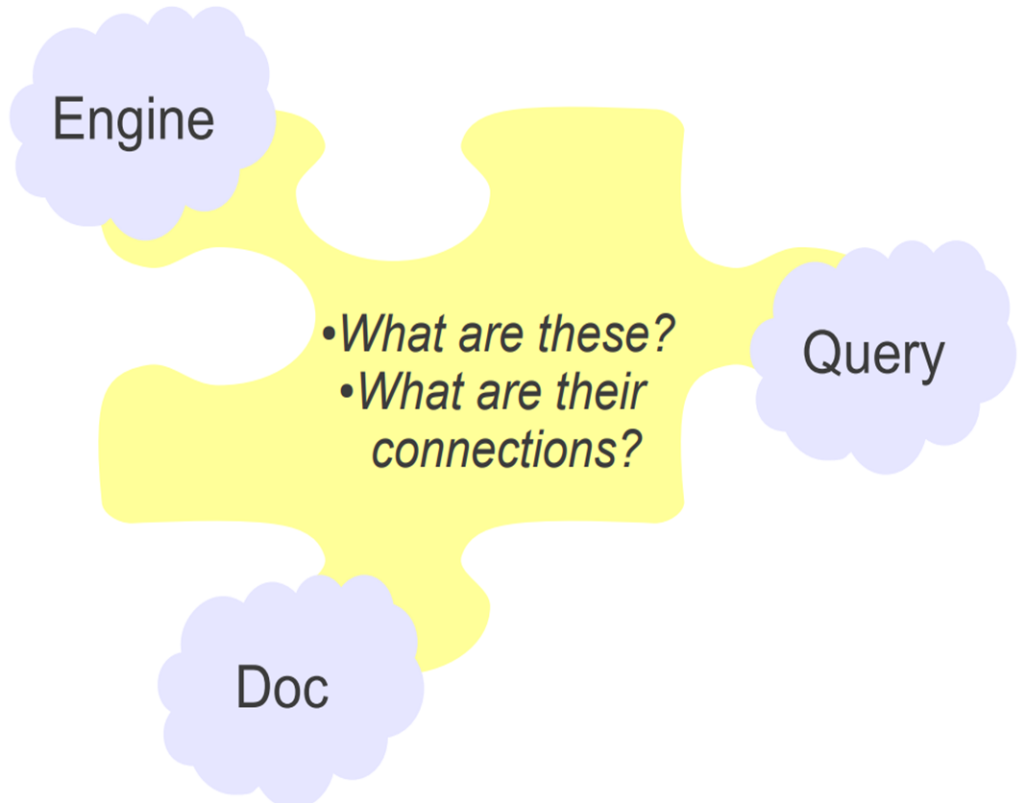
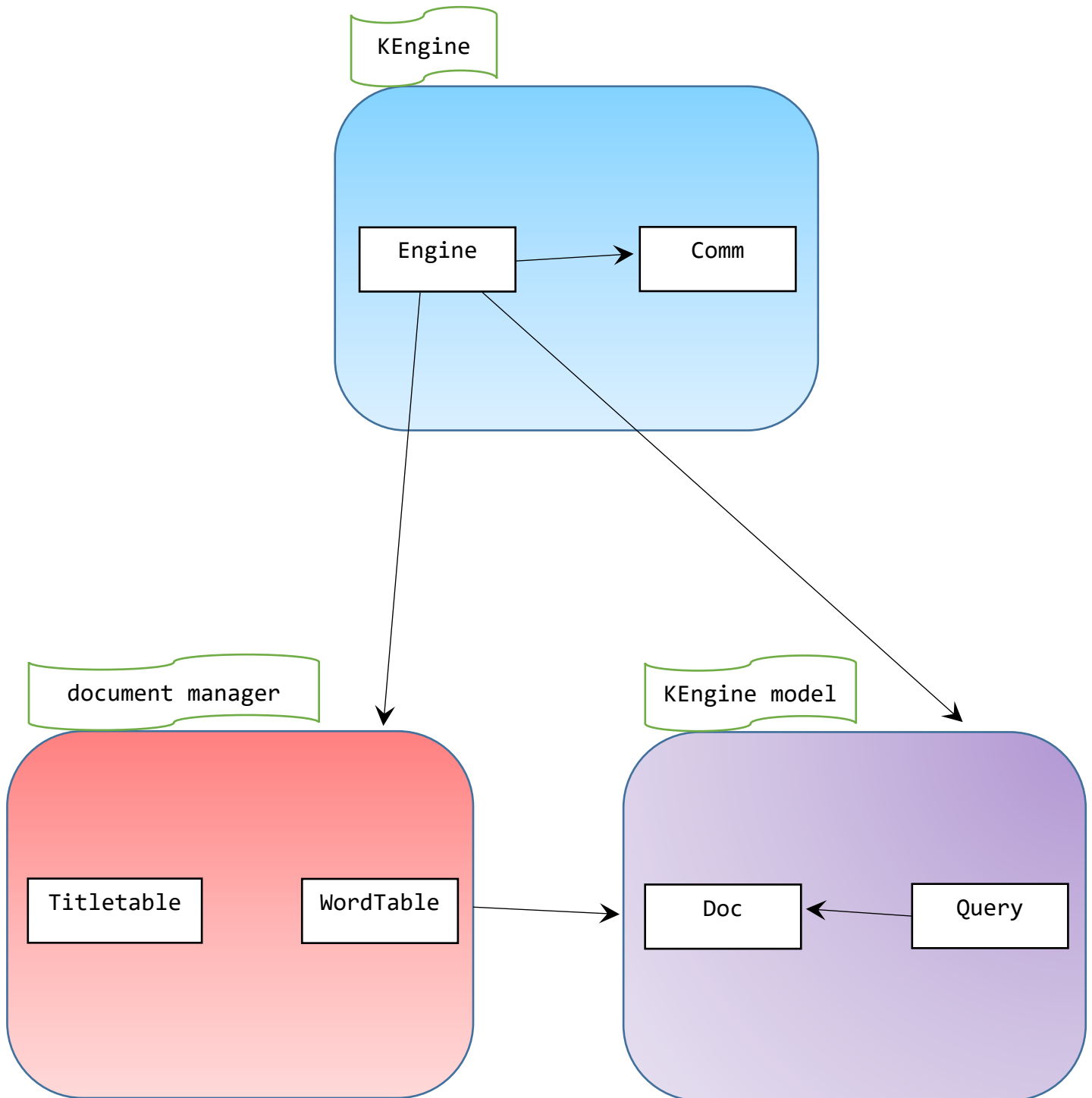


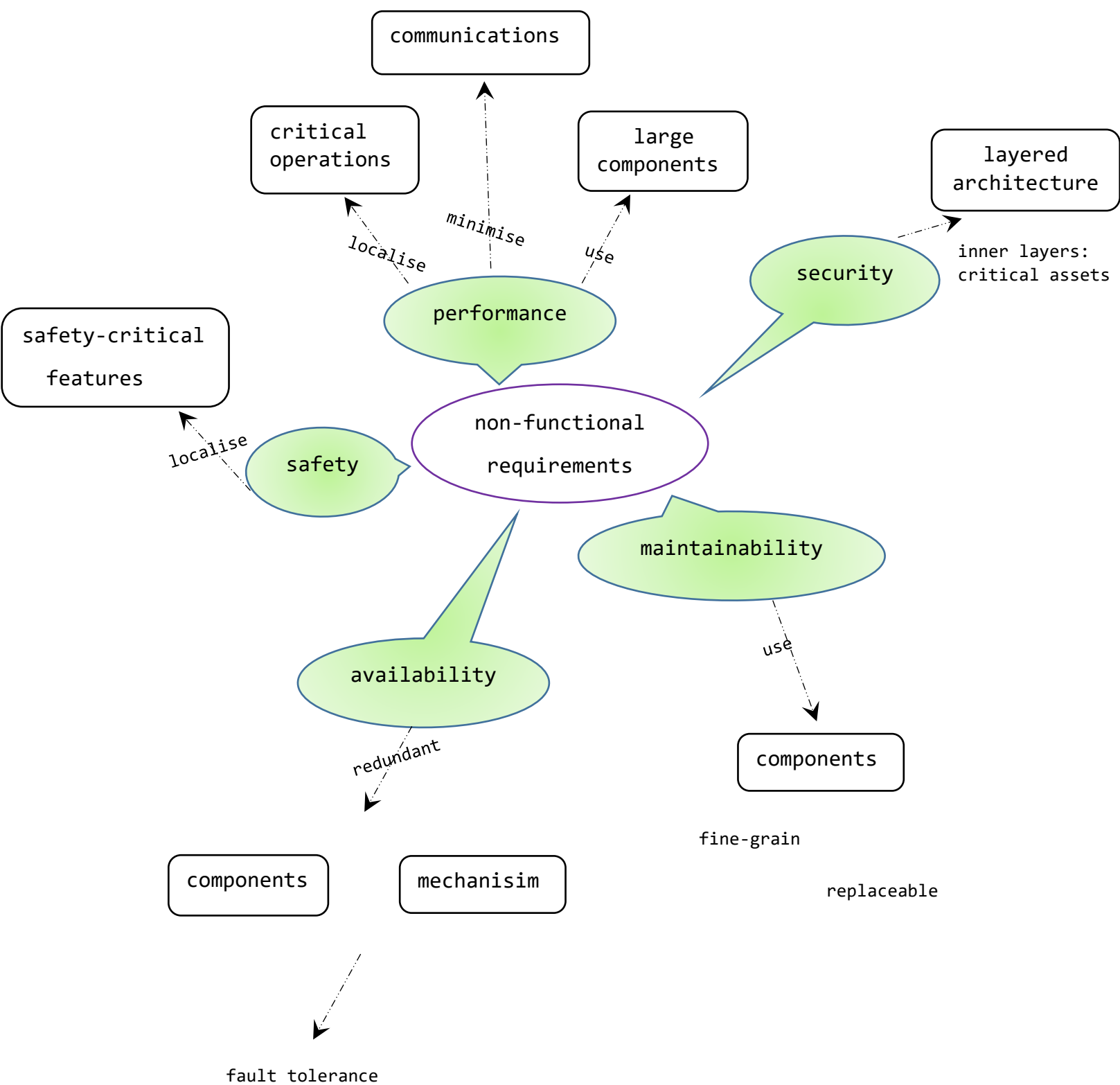
Example: KEngine

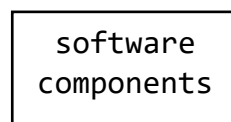
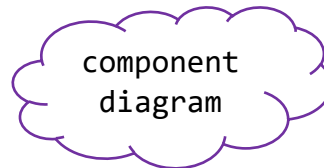
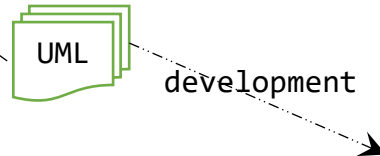
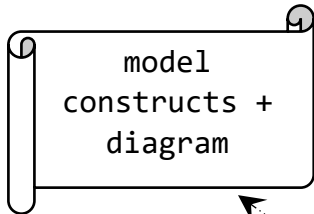
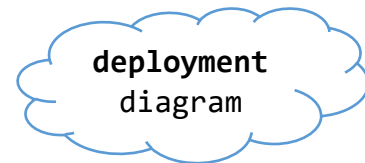
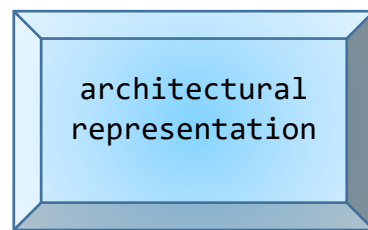
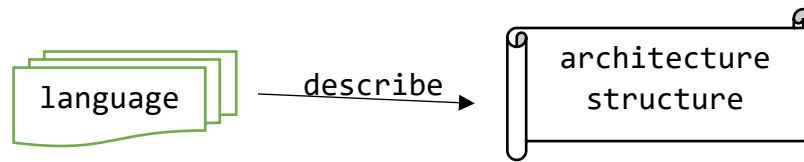
- ◇ KEngine architectural concerns:



KEngine architecture



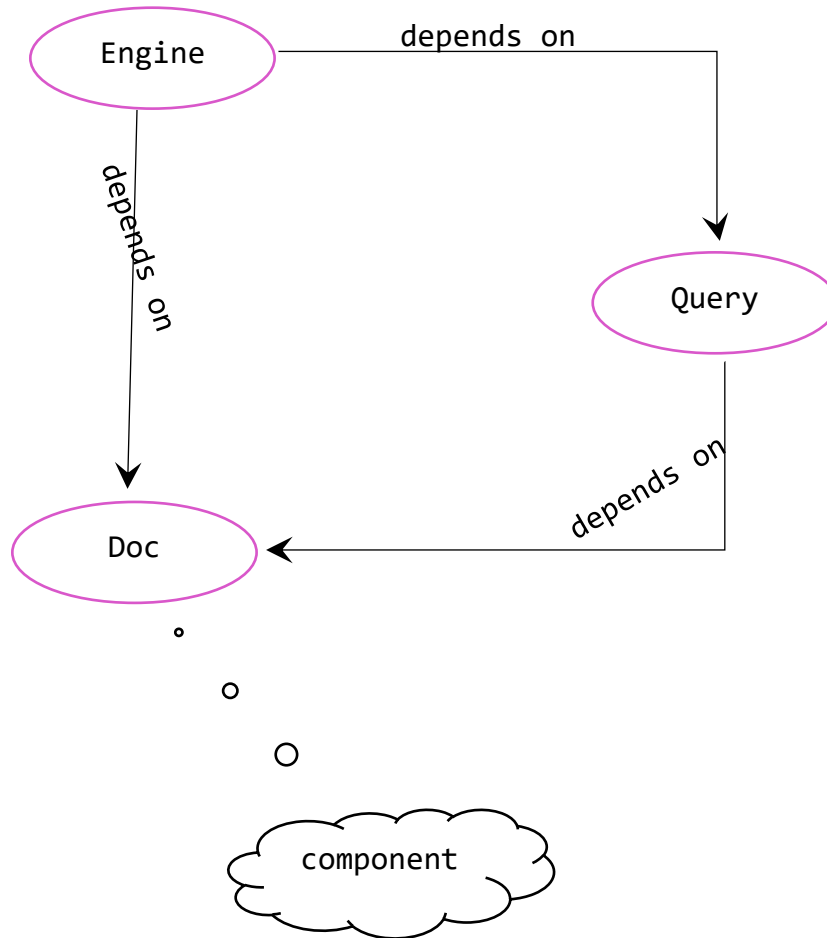




interact
depend
link → other UML models
esp. class diagram

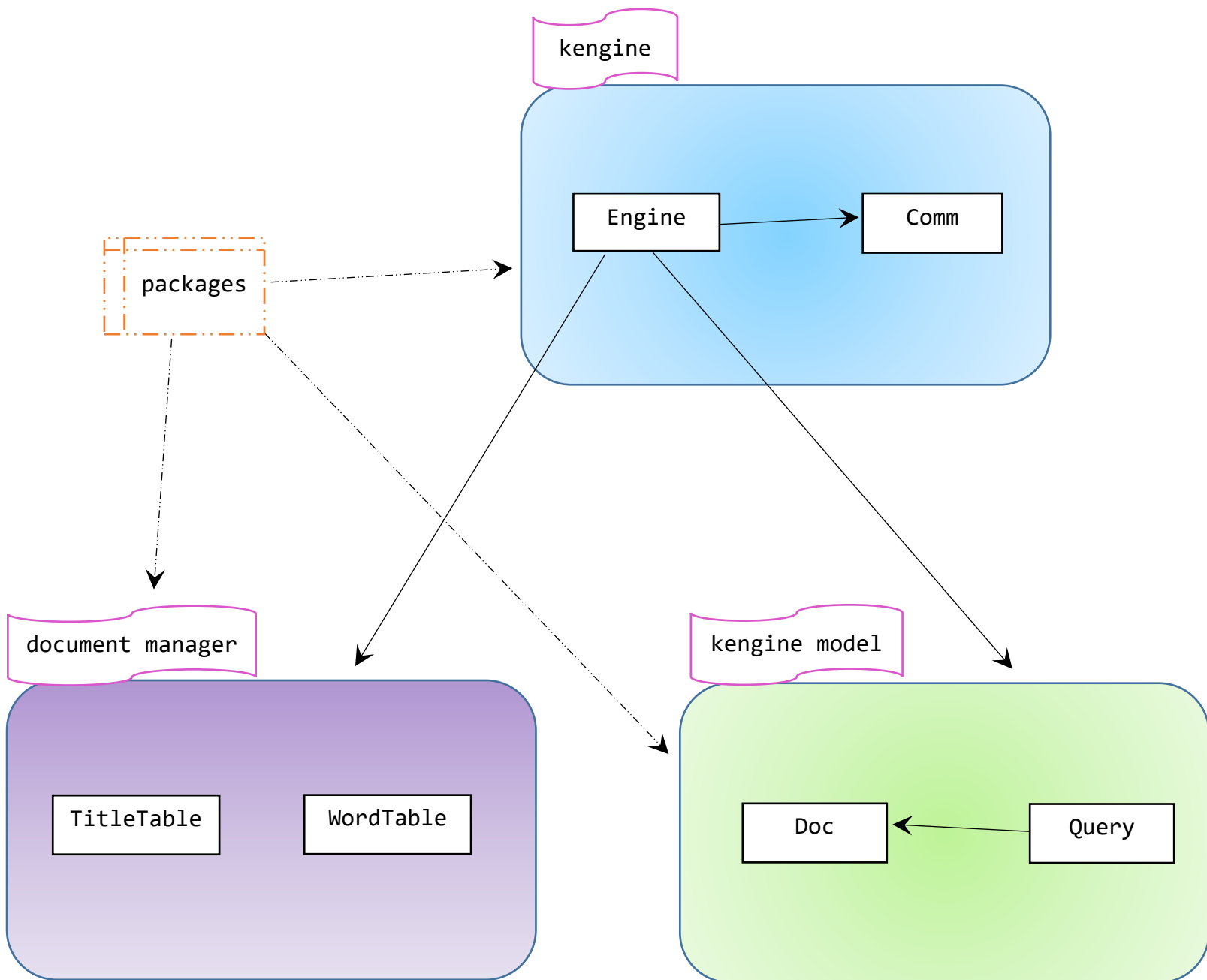
(group) data abstractions

Basic KEngine architecture



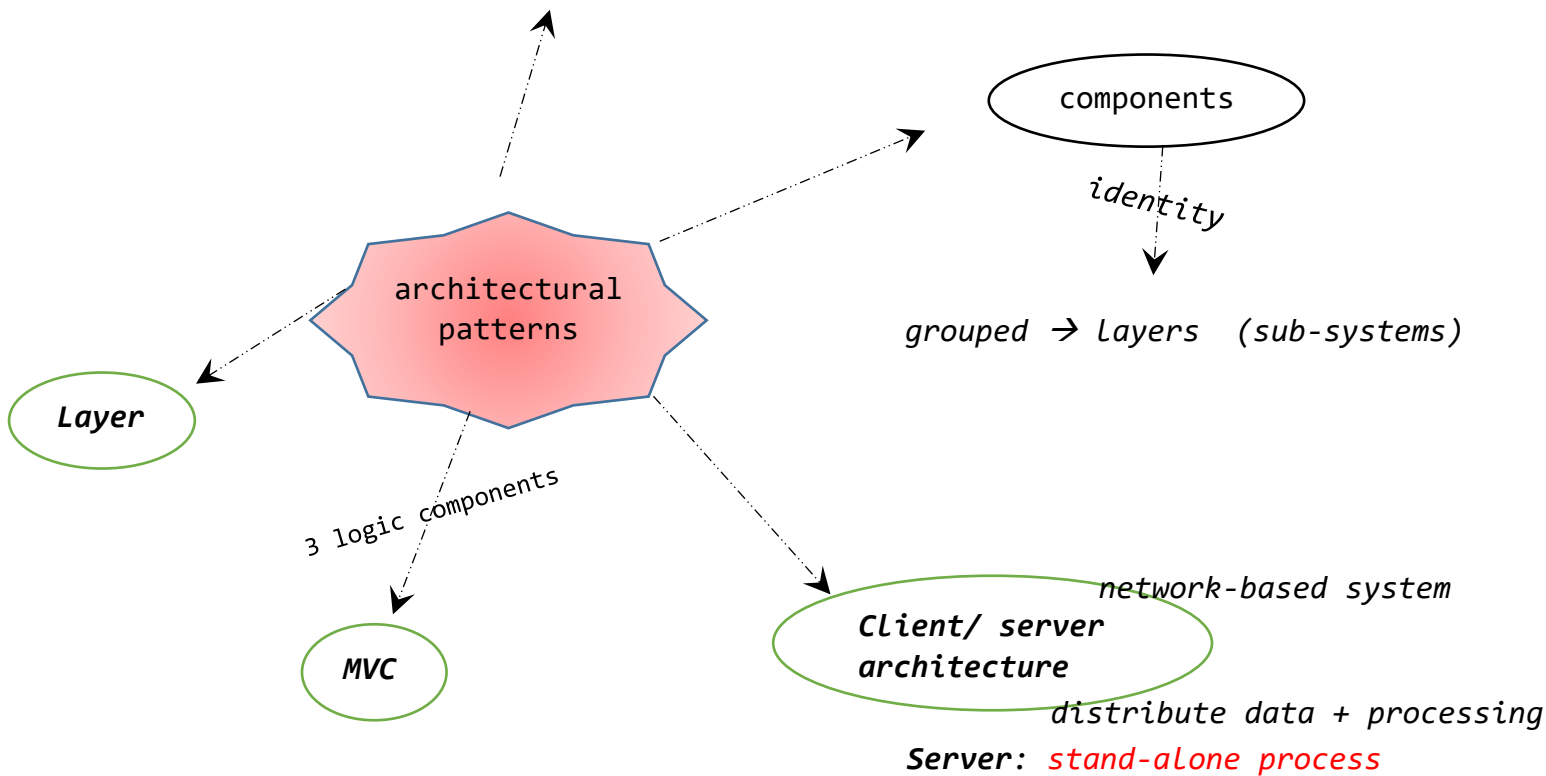
Detailed KEngine architecture

KEngine architectural model → show some components → packages



stylized description → good design practice

means → reusing knowledge → generic system architectures



Model: manage system data + operation

View: manage data presentation → user

Controller: manage users interactions

via keyboard, mouse, ...

multiple ways → interact data
unknown future requirements

data change ↔ representation
support dif pre. - same data
code complexity

→ specific service

printing, data management, ...

Client: process ← servers services

Network: clients ↔ servers

data shared - range of app. / processes

load sharing → particular service

database look-up

distribute server - network

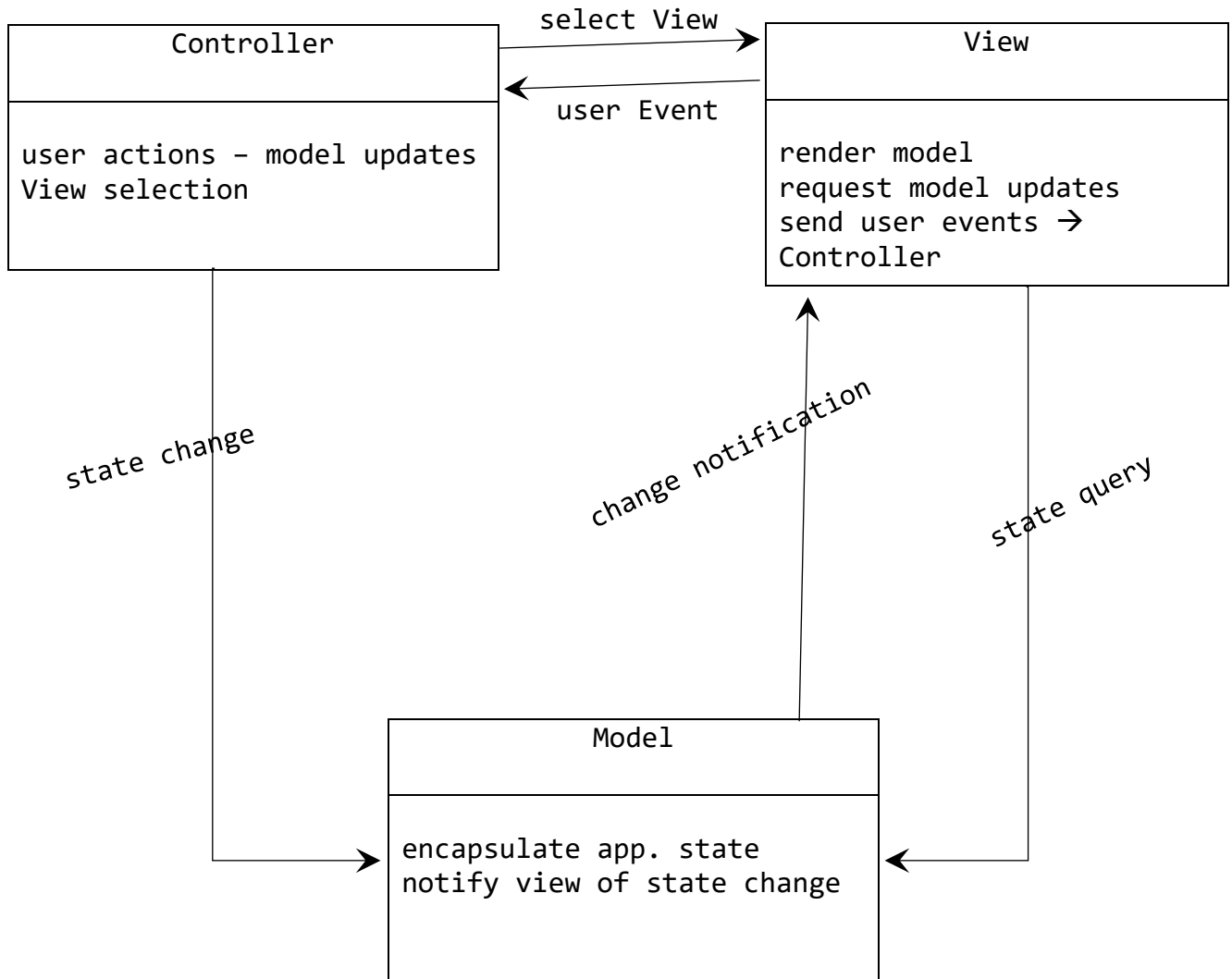
available shared functionality

server: failure point

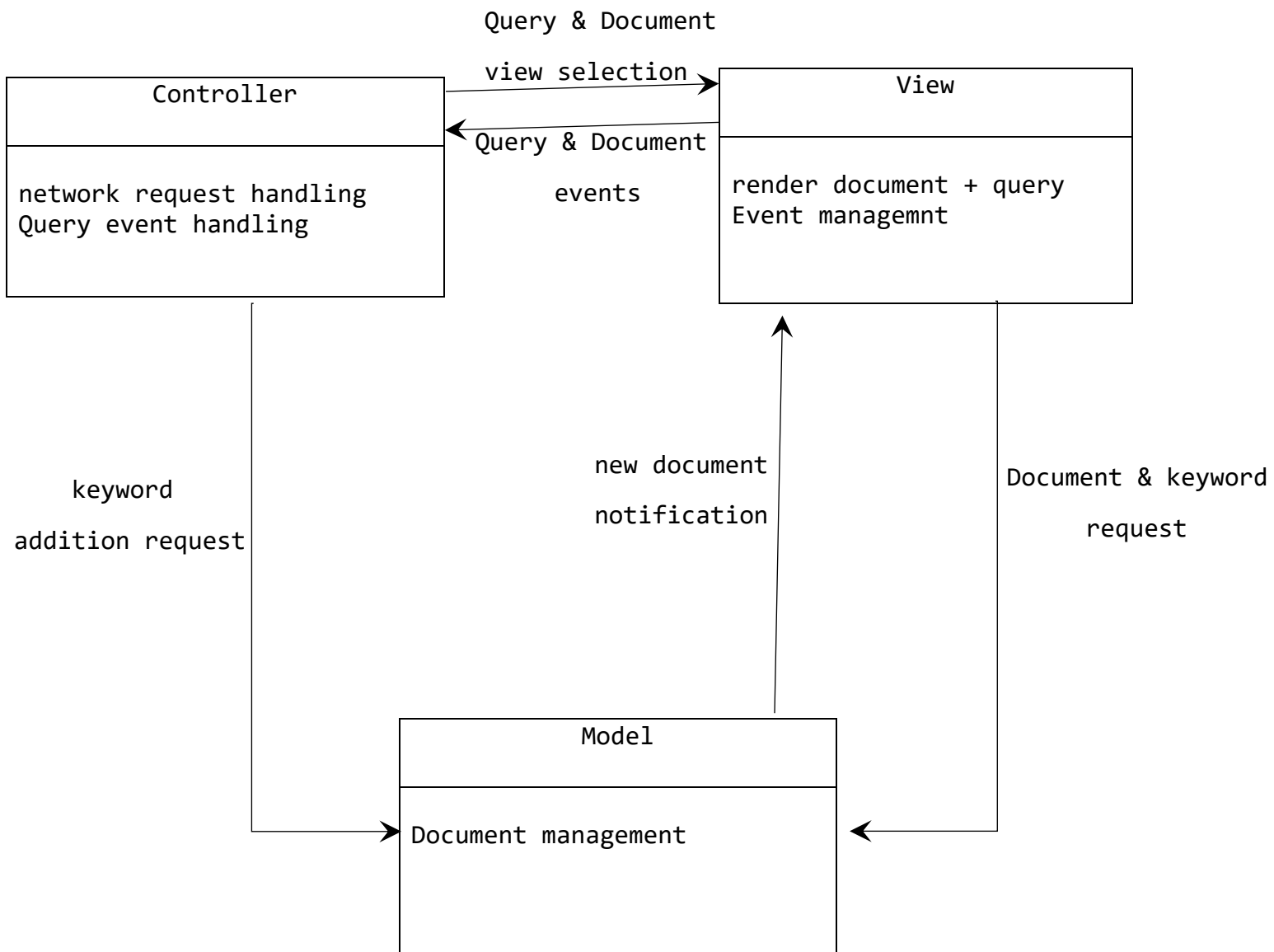
unpredictable performance

increased system management overhead

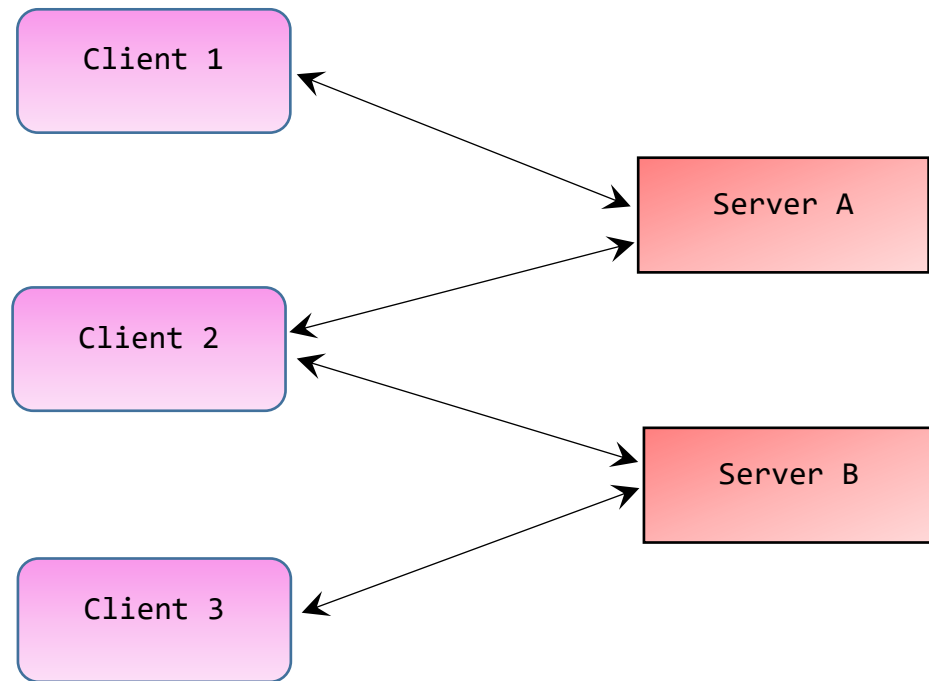
MVC diagram



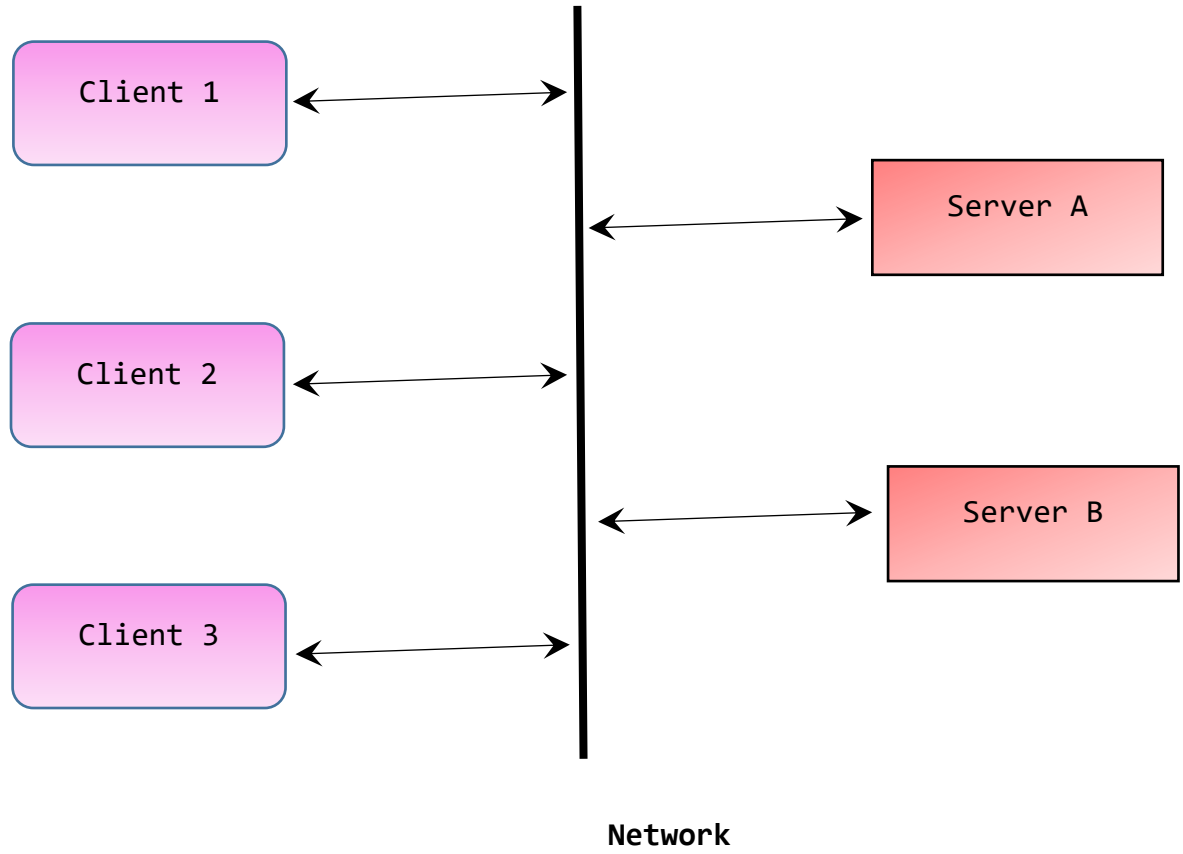
KEngine



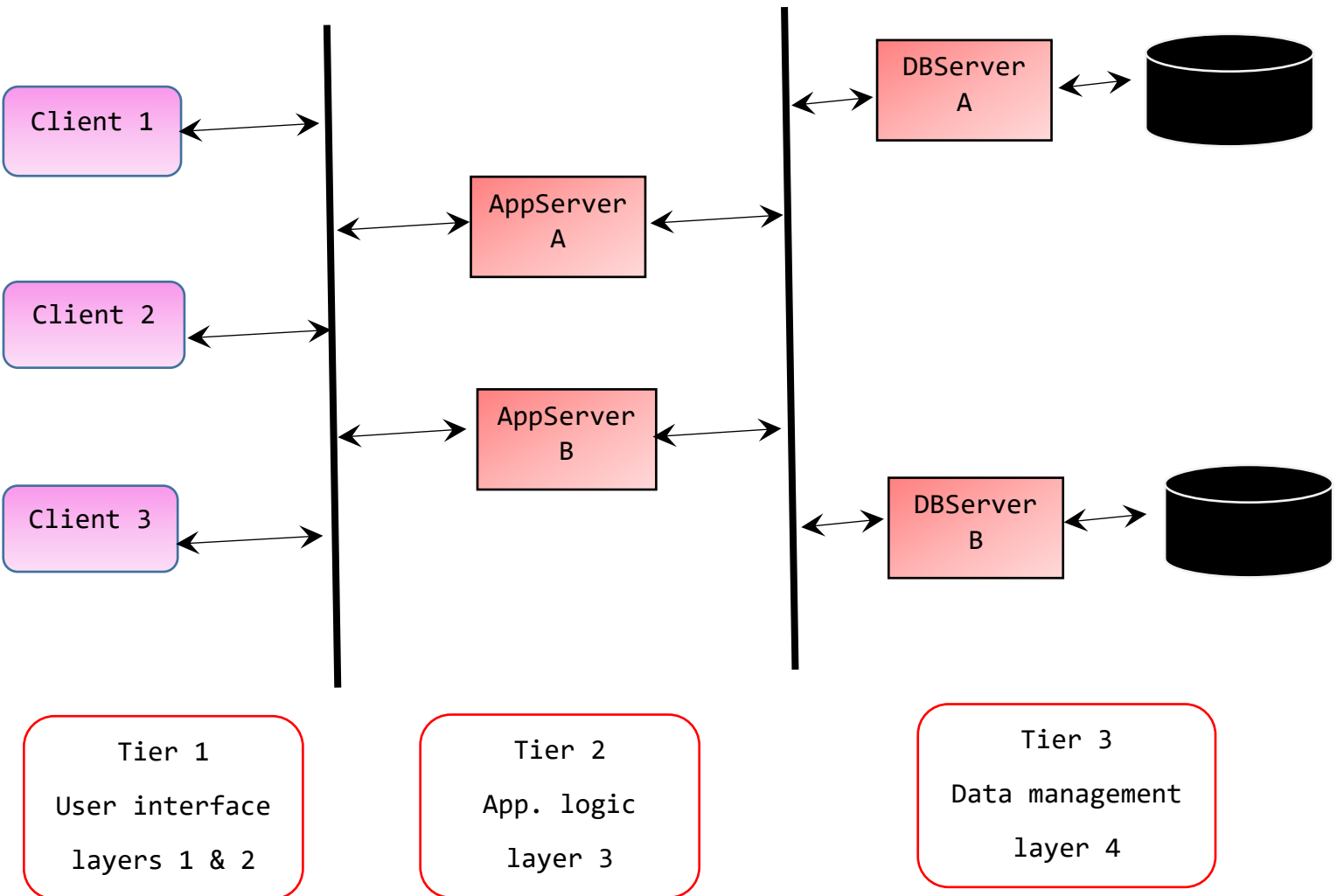
Client/ server architecture diagram



Bus style network



3-tier architecture



KEngine 3-tier architecture

