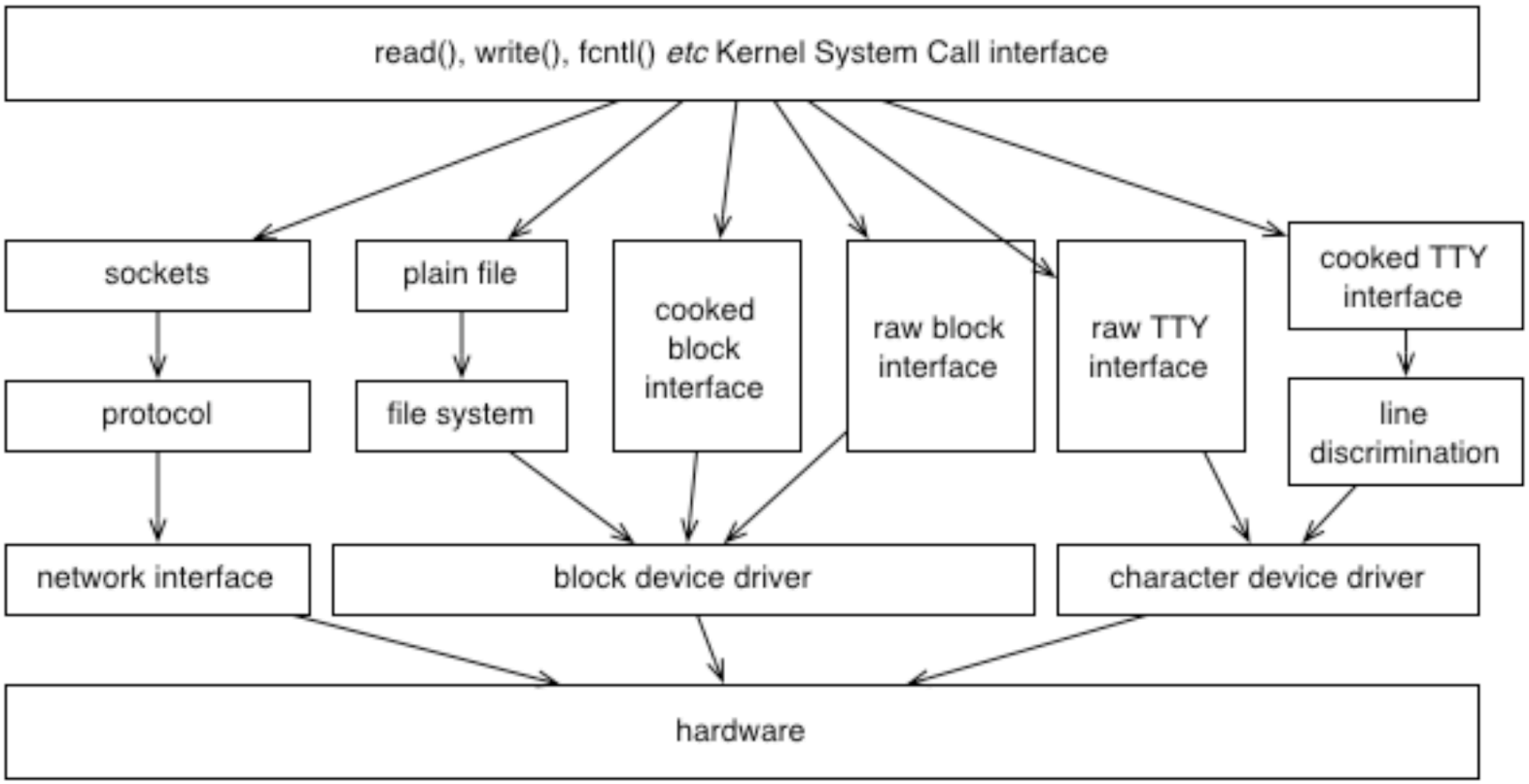
4

Software Architectures: Layered Systems

BSD Unix Layered Architecture

examples
patten
responsibilities
communication



NextGen Point-Of-Sale System [Larman]

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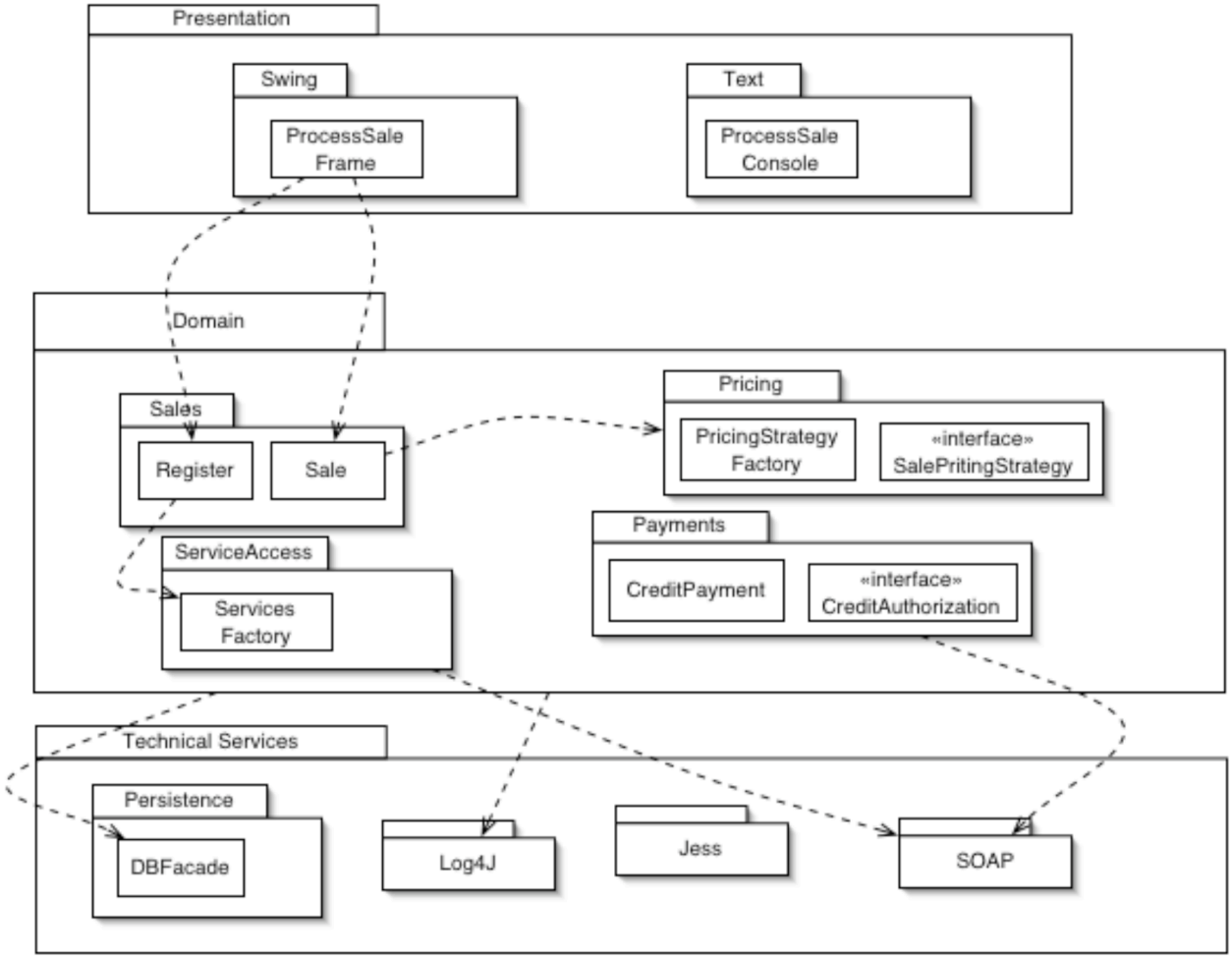

FTP / TCP / IP on Ethernet

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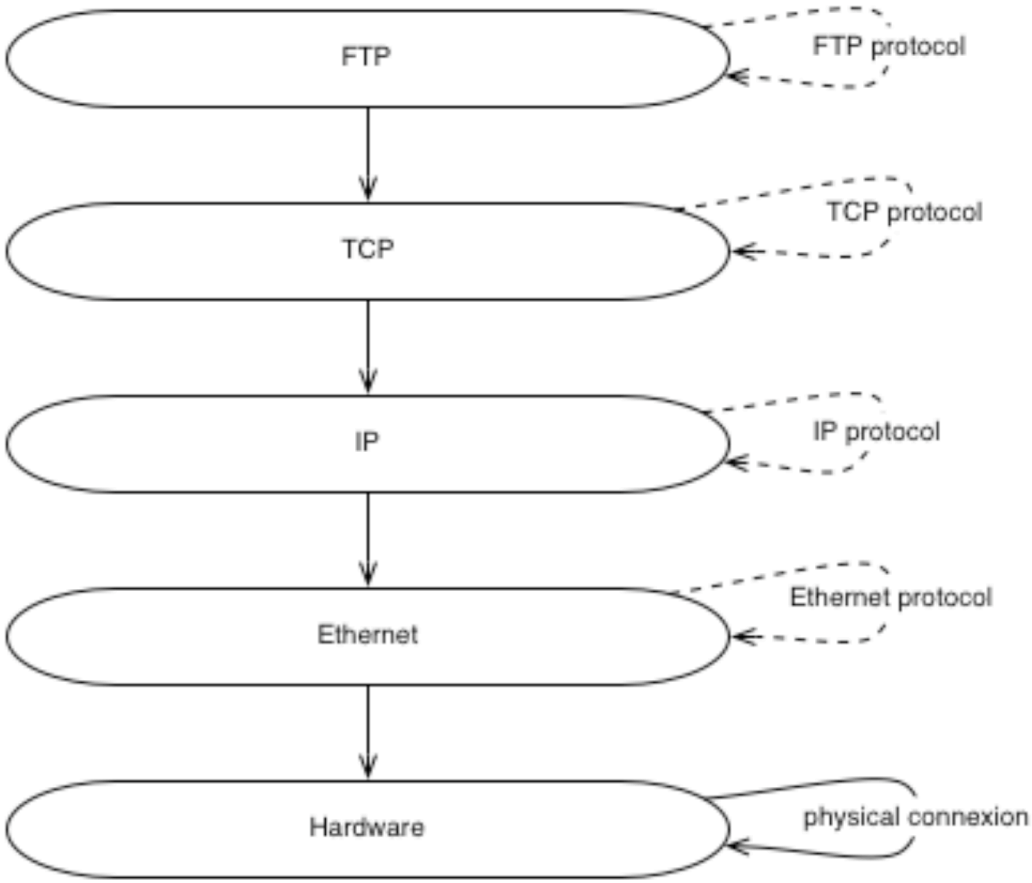

Relational Database Management System Reference Architecture

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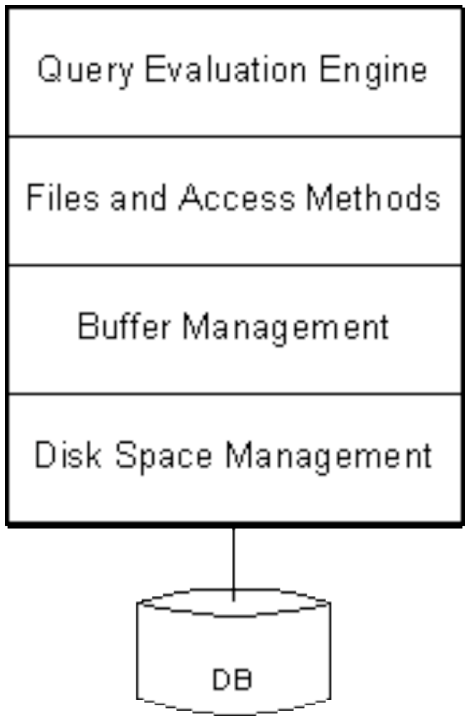

PostgreSQL Layered Architecture (Recovered)

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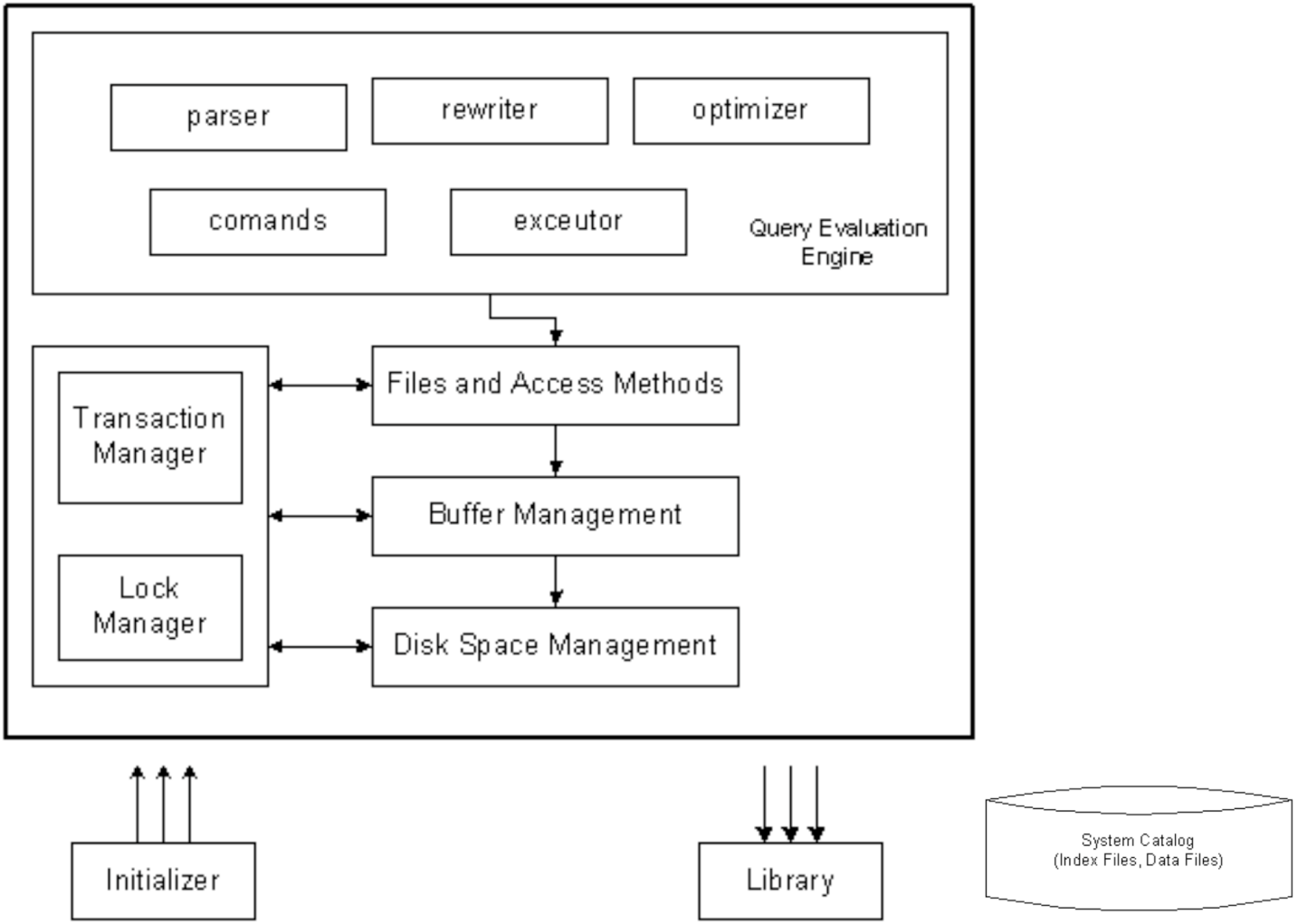

Application on JFC on Java Platform on Mac OS X

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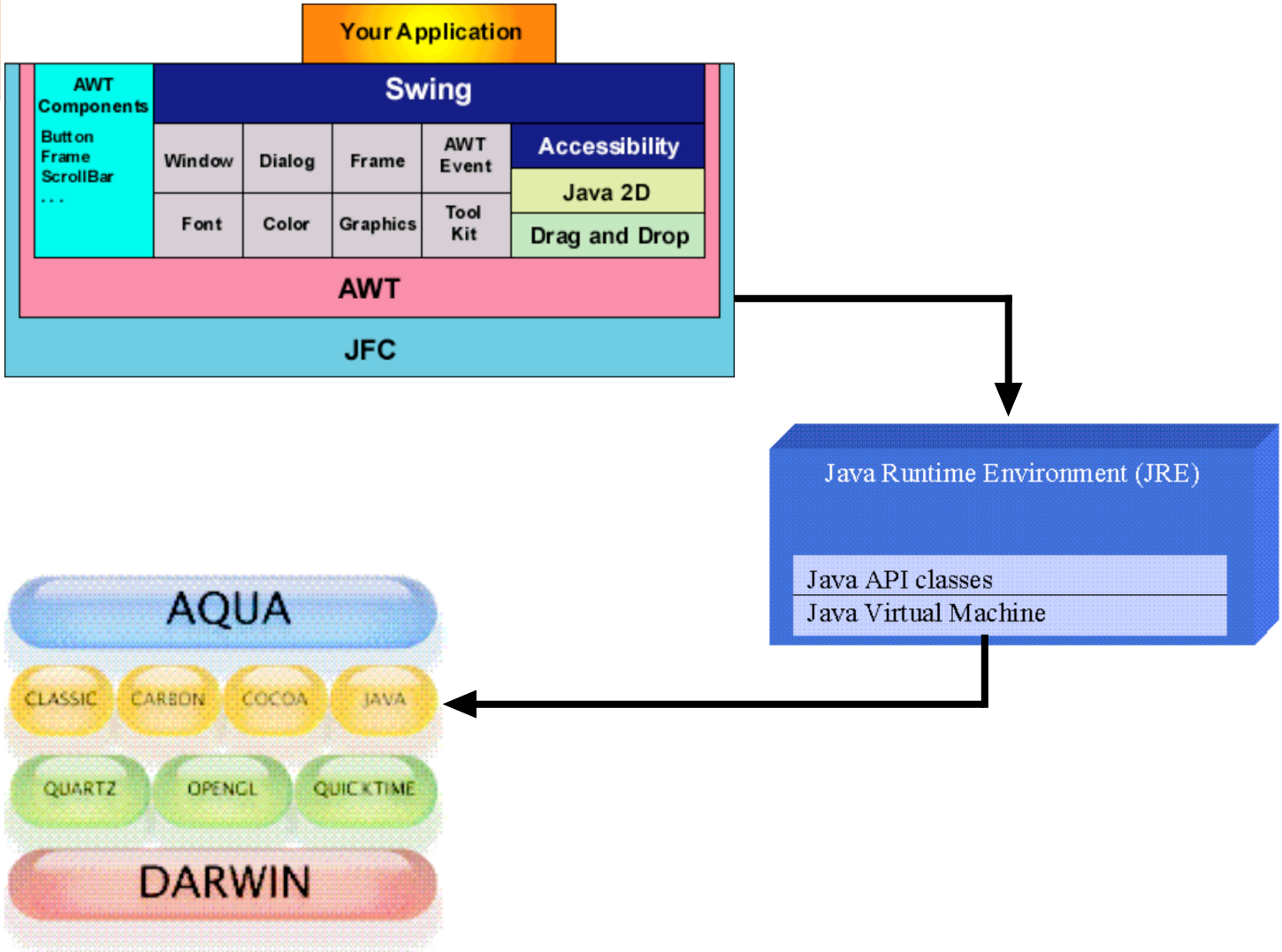

Generic Layered Architecture

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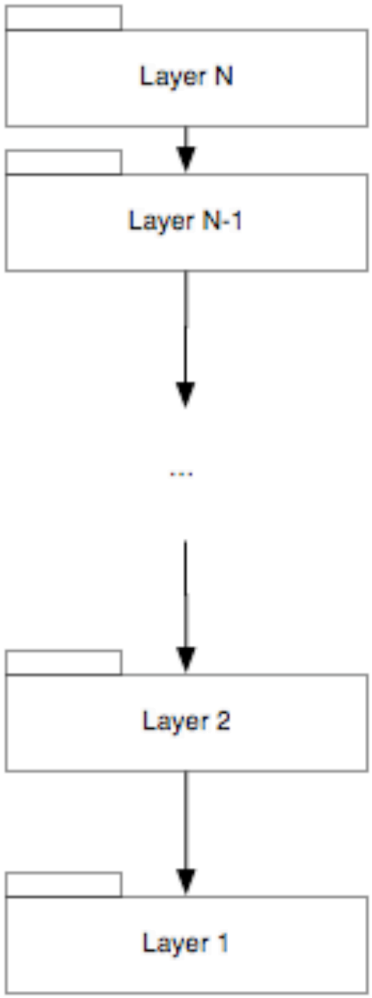
Provide services to client

Handle requests from Layer N, delegate subtasks to layer N-2

Handle requests from Layer 3, delegate subtasks to layer 1

Directly handle requests from Layer 2.



OSI 7-Layer Network Reference Architecture

examples
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Miscellaneous protocols for common activities

Structure information and attach semantics

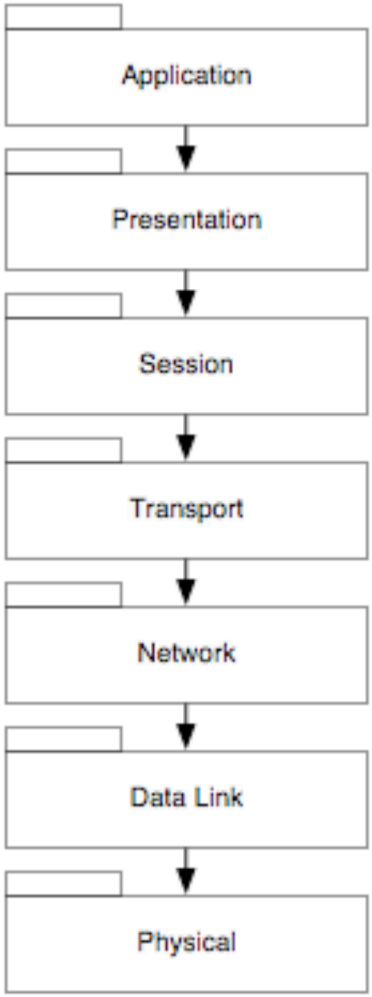
Provide dialogue control and synchronization facilities

Packetize messages and guarantee delivery

Select route from sender to receiver

Detect and correct bit sequence errors

Transmit bits (veolcity, bit-code, connexion, *etc.)*



Information System Reference Architecture [Larman]

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