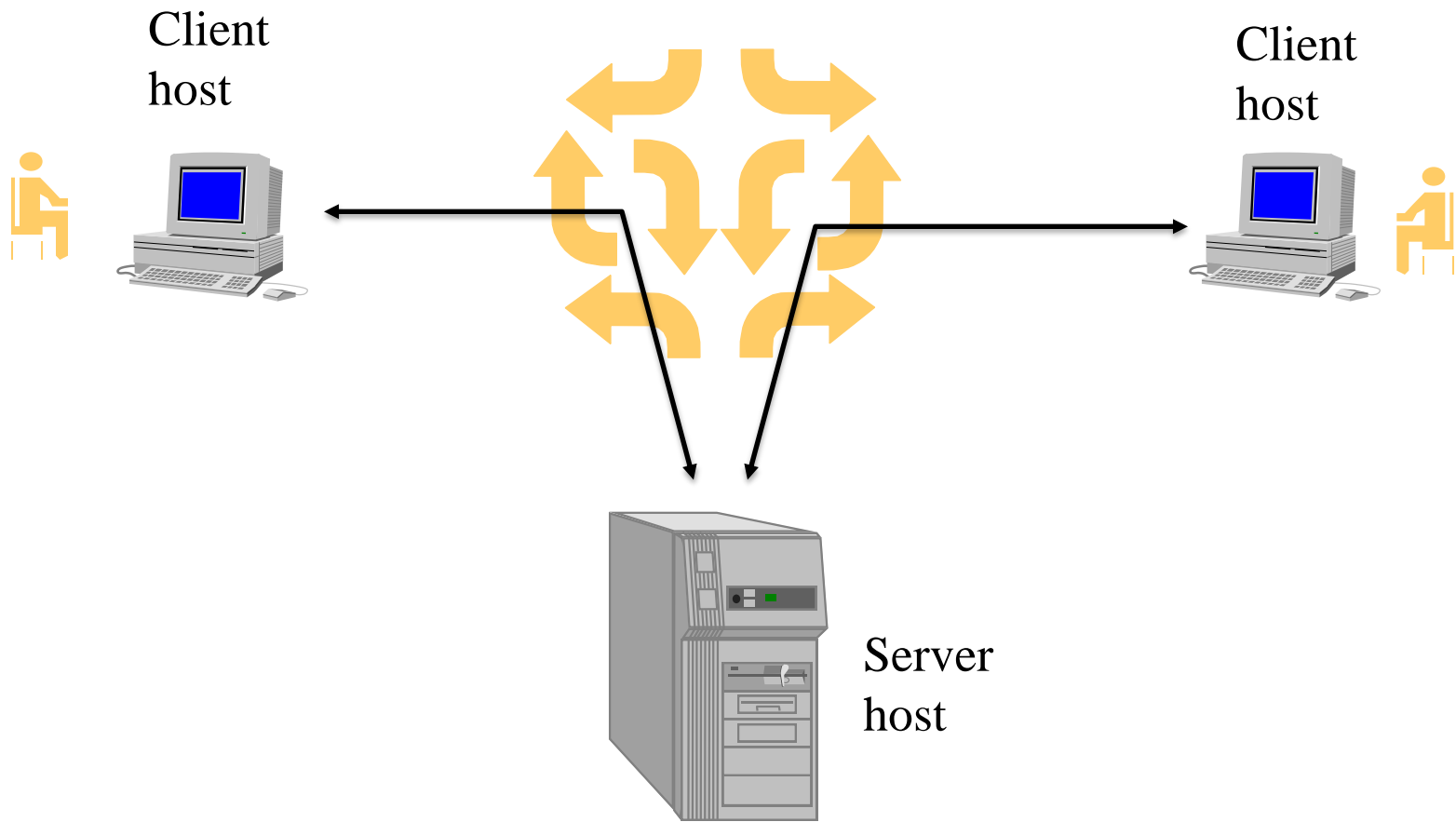


Client – Server Architecture

Rational
Applications
Strengths and Shortcomings



Part of the rationale

- Specialization:
 - Clients specialize in user interface
 - Servers specialize in managing data and application logic
- Sharing:
 - Many clients can be supported by few servers
 - Often data and logic are shared among applications and users

“I want to access some information”

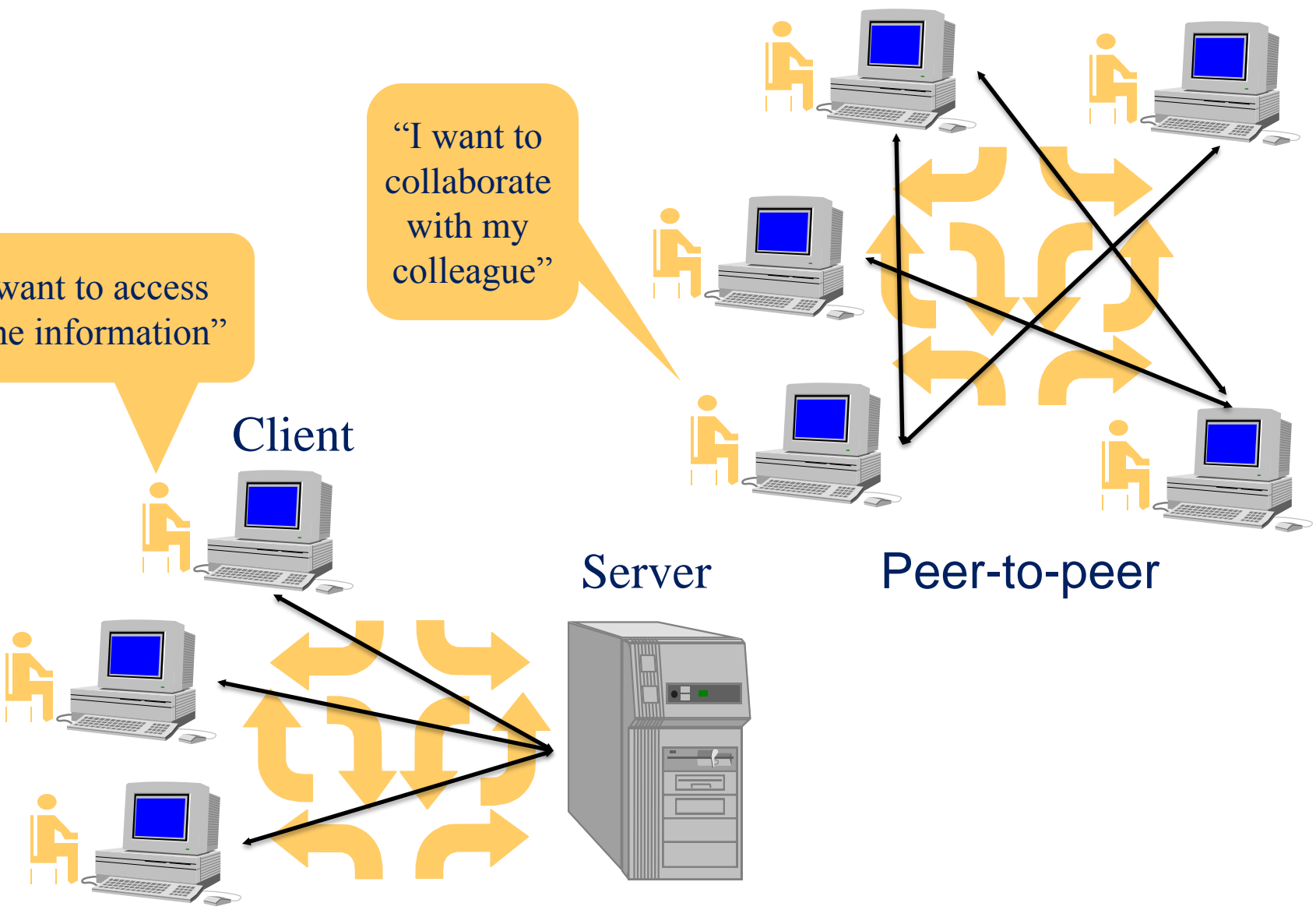
“I want to collaborate with my colleague”

Client

Server

Peer-to-peer

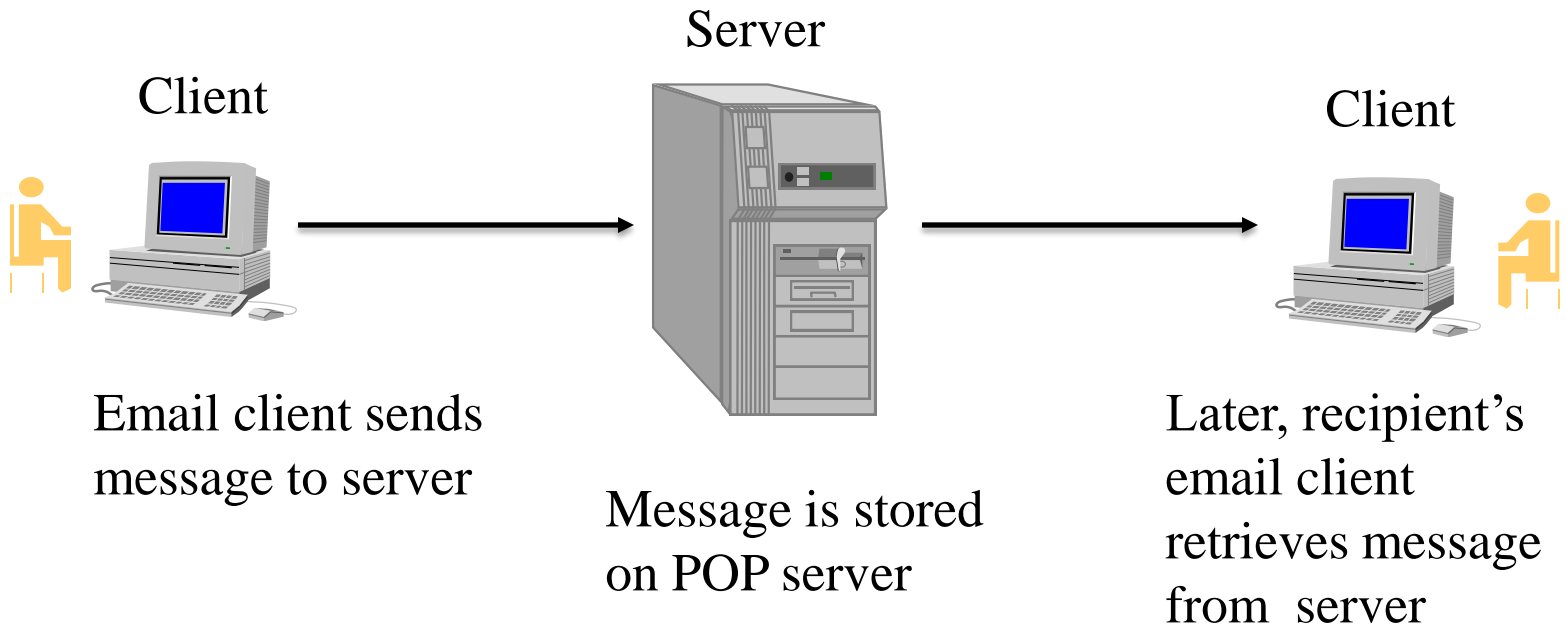
Client/server



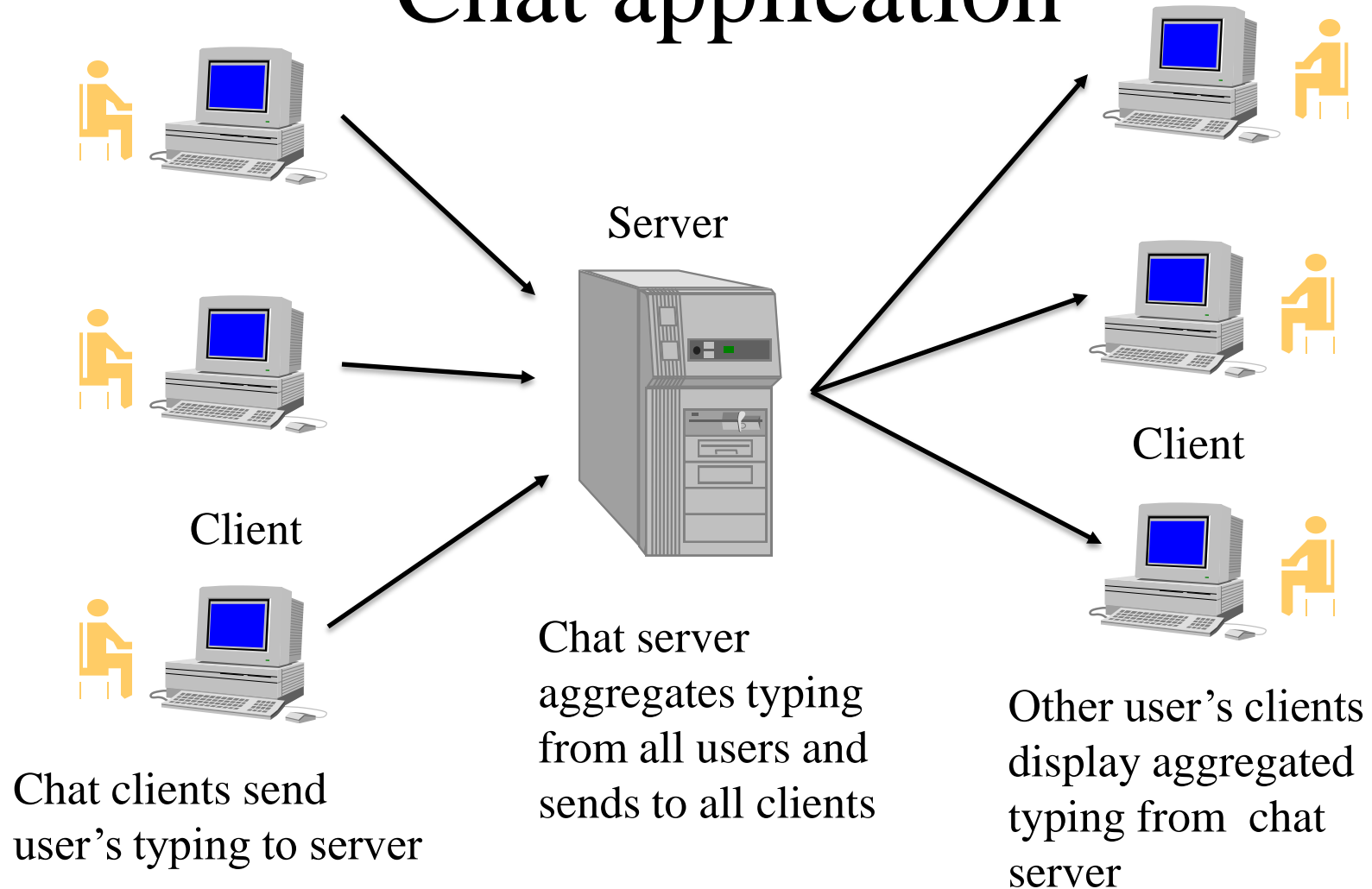
Distinctions

- Client-server
 - Asymmetric relationship
 - Client predominately makes requests, server makes replies
- Peer-to-peer
 - Symmetric relationship

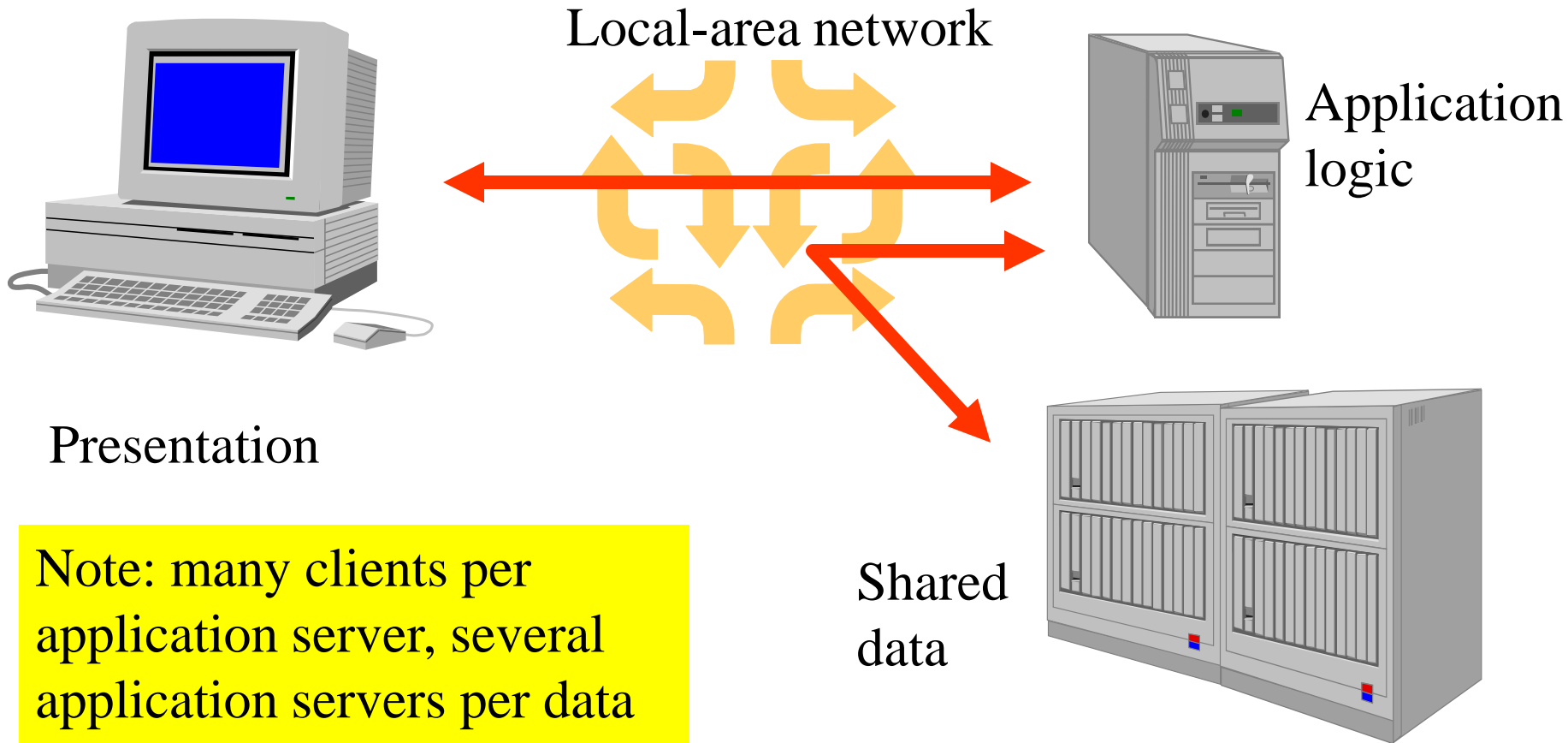
Email application



Chat application



Three-tier client/server



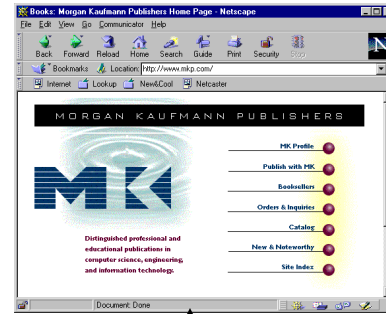
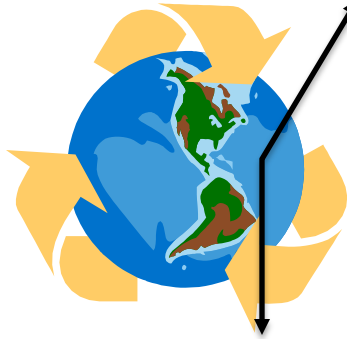
Presentation

Note: many clients per application server, several application servers per data server

Shared data

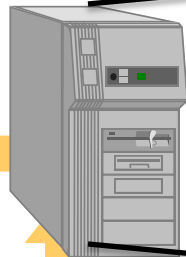
Host architecture

Client



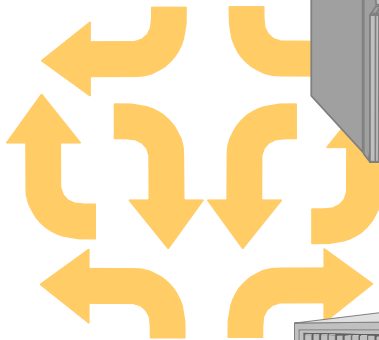
Web browser

Web server

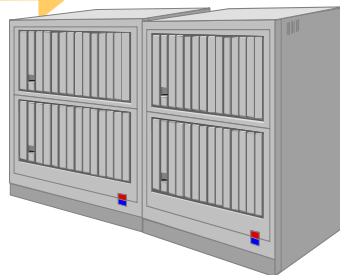


Common gateway interchange

Application logic



Databases and DBMS



Application partition

Practice in defining tiers

- Online bookseller (e.g. amazon.com)
- Stock trading system (e.g. Schwab or E-trade)

amazon.com

Amazon.com: A Glance: Passport to World Band Radio 1998 (Serial) - Netscape

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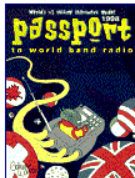
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by Lawrence Magne (Editor)



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Synopsis

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▼ S&P 500	957.53	-69.61
▼ NASDAQ	1,489.25	-140.43

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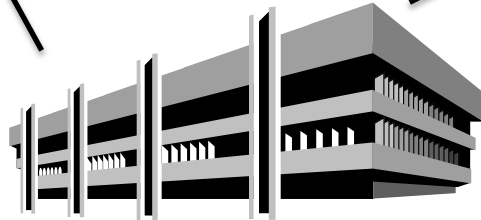
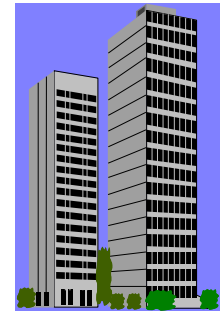
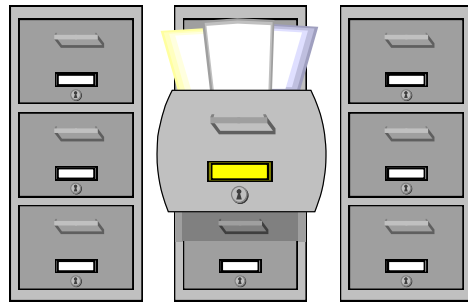
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Question

- What types of social applications would be appropriate for a client/server architecture?

Departments



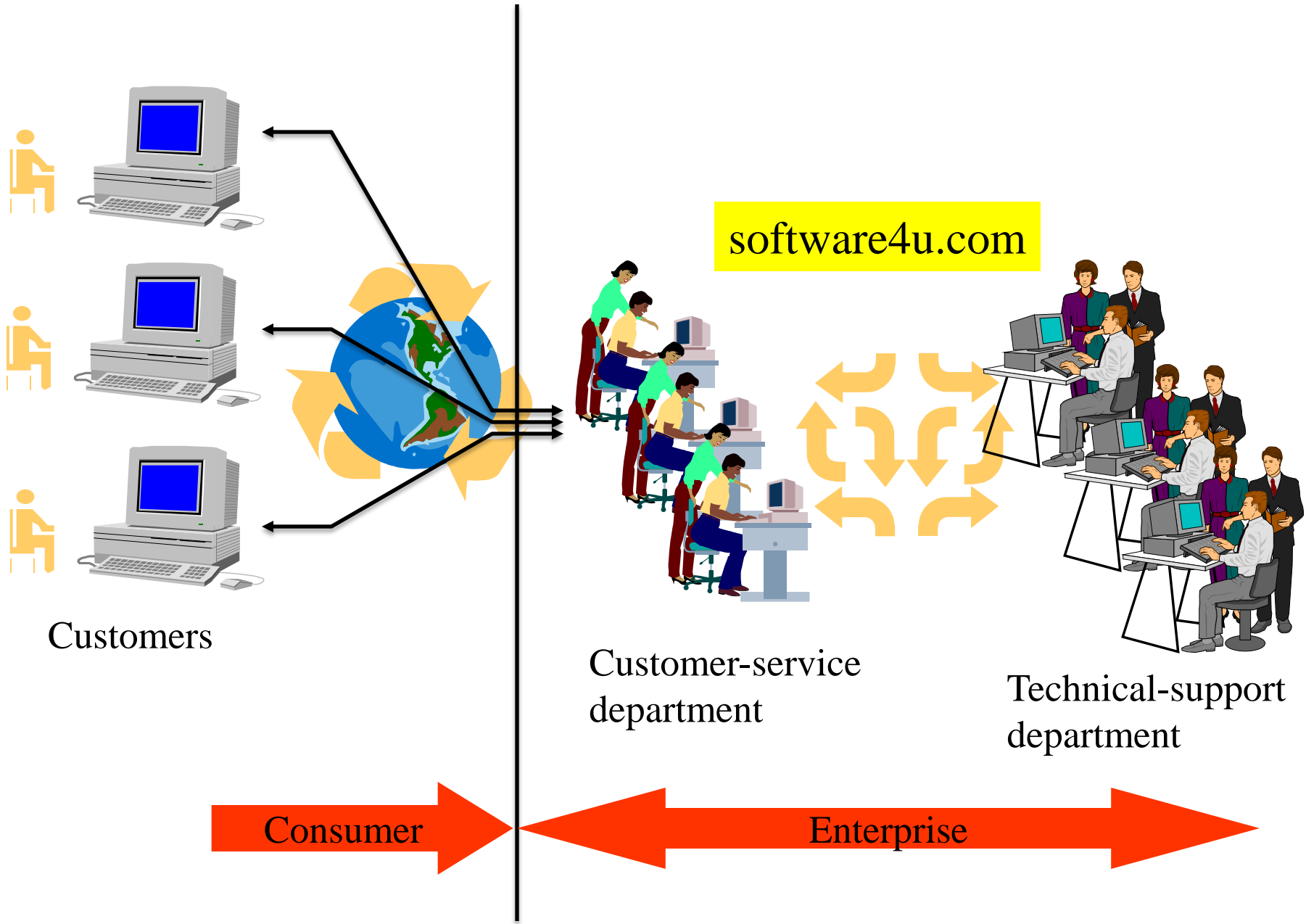
Enterprise

Enterprise-to-enterprise

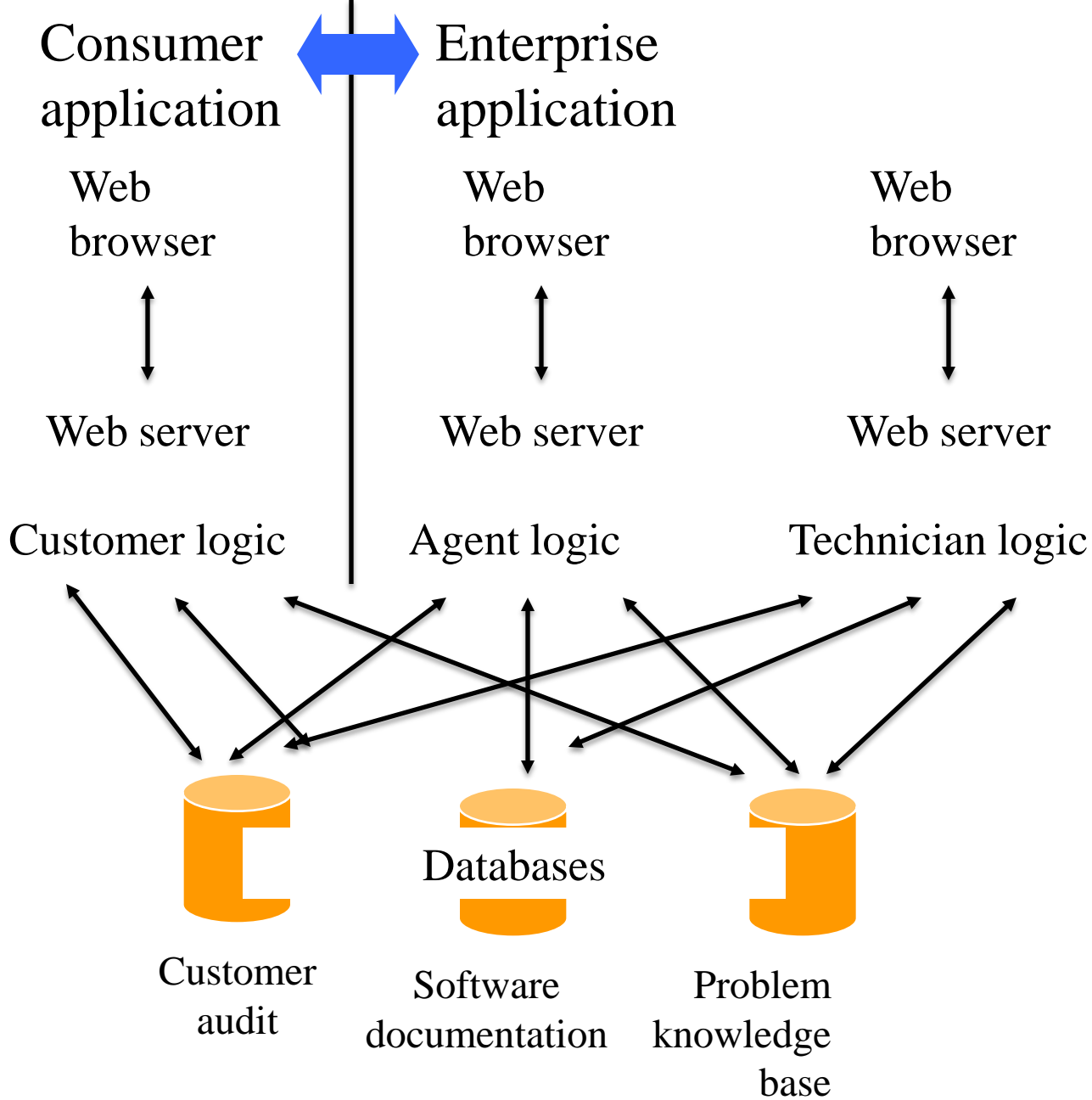
Commerce

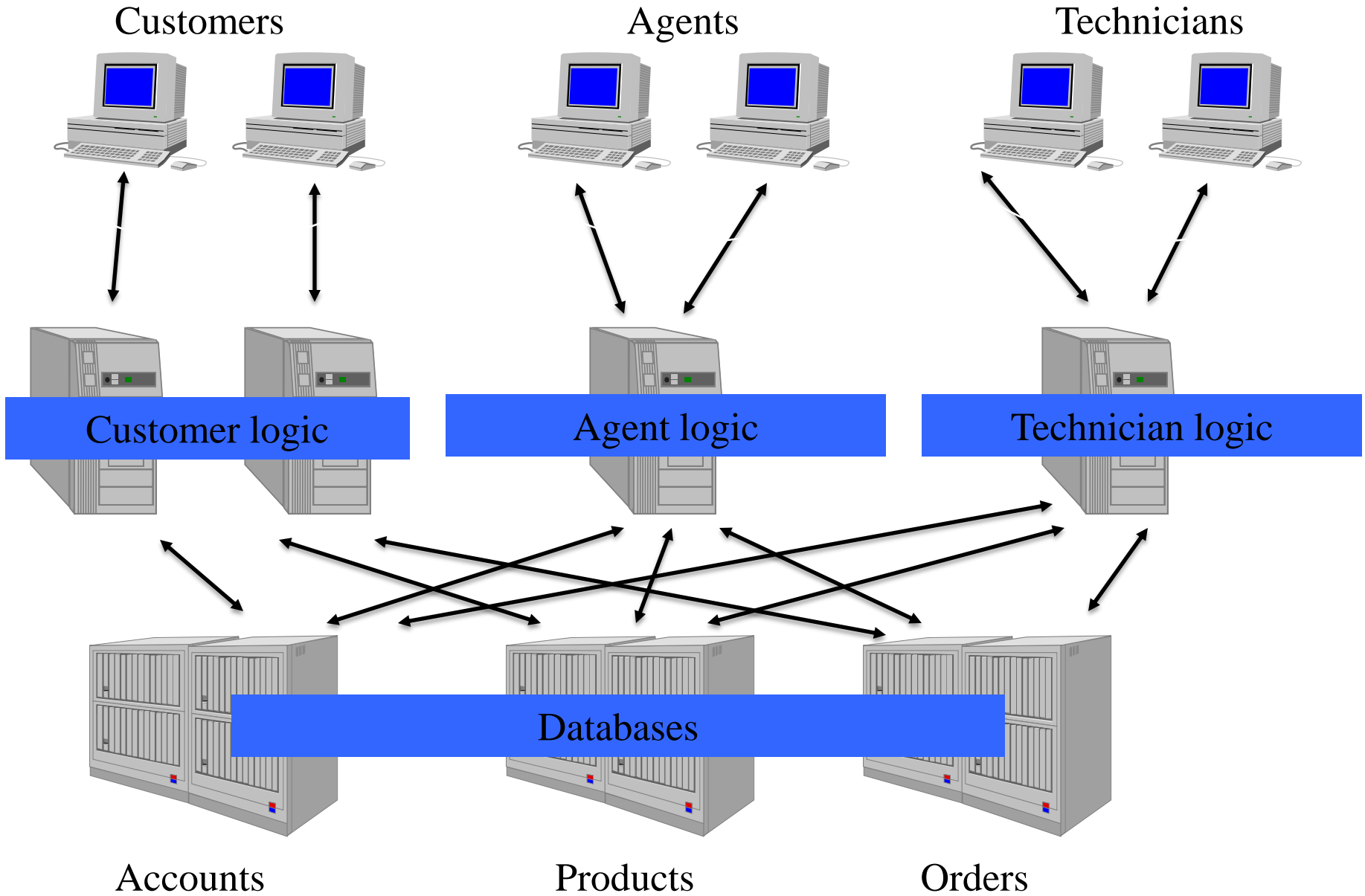
Consumer

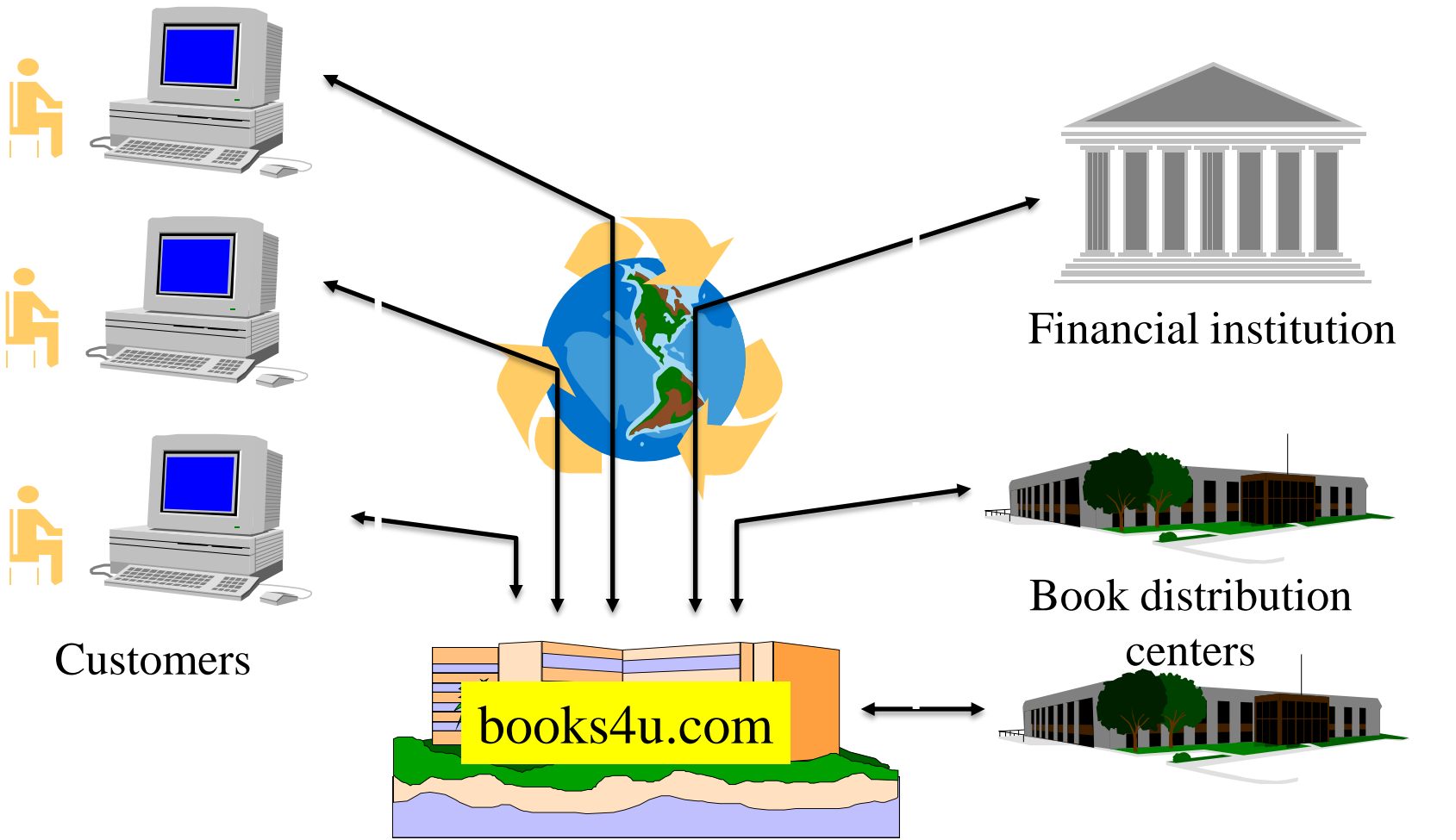




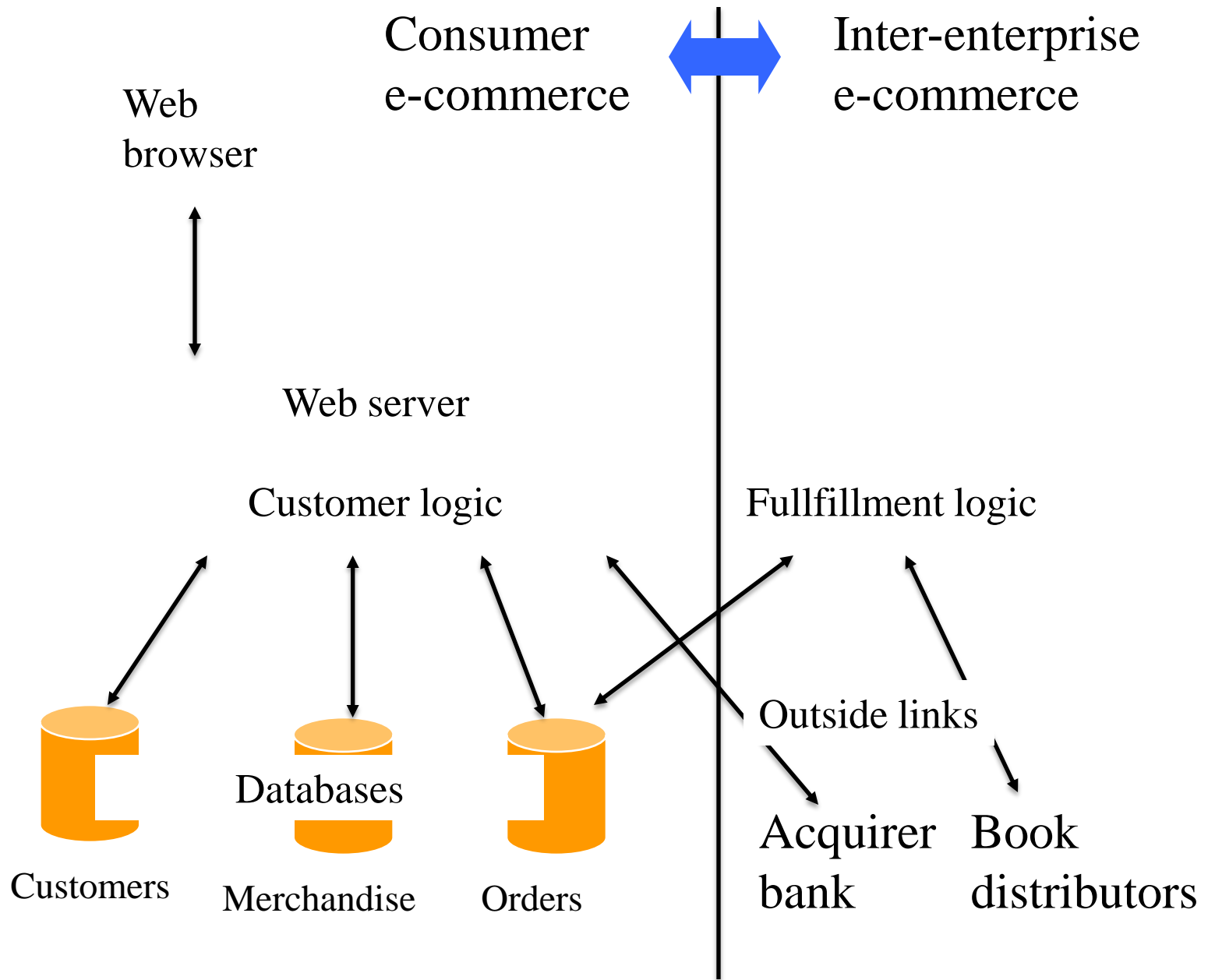
Customer care

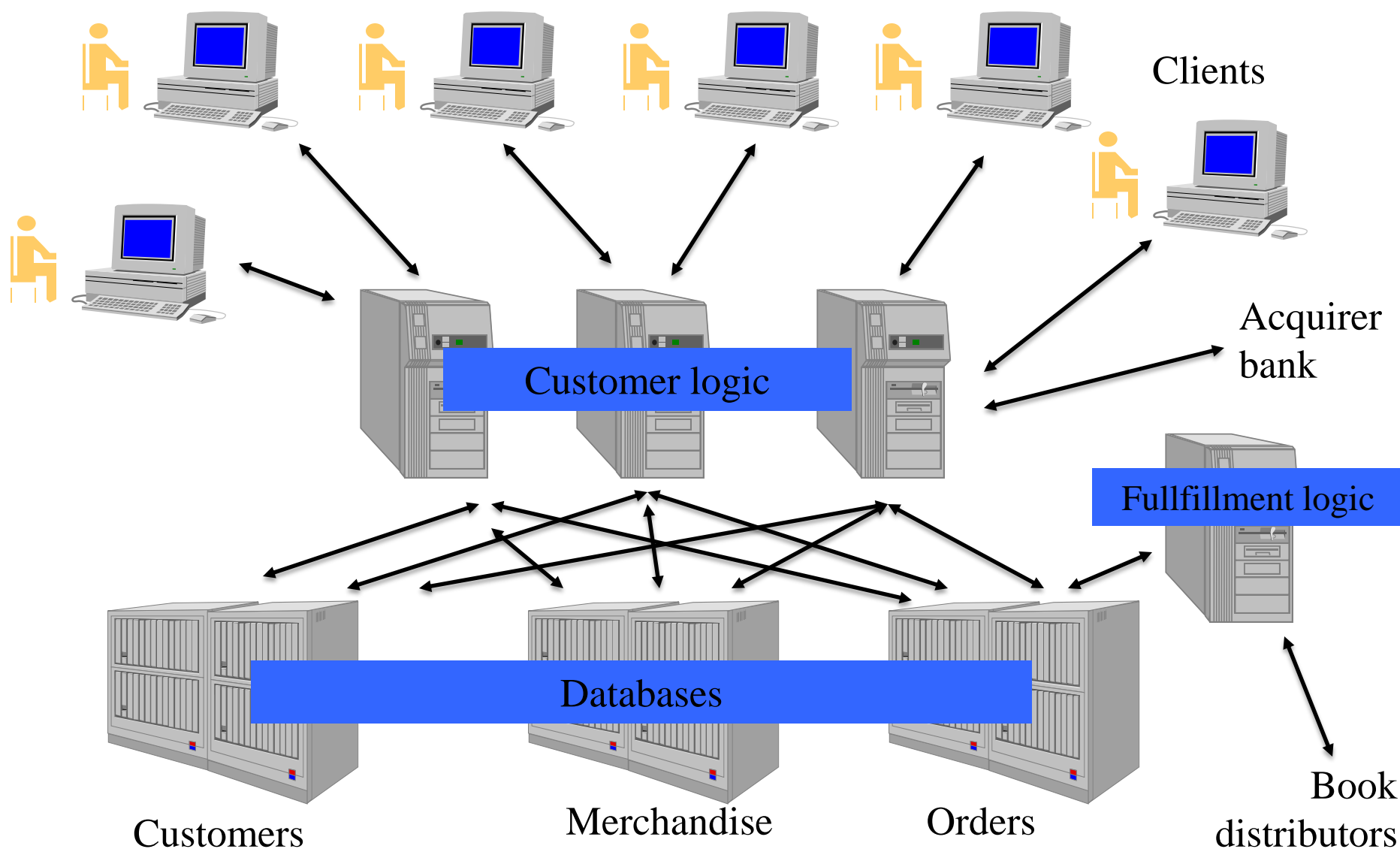


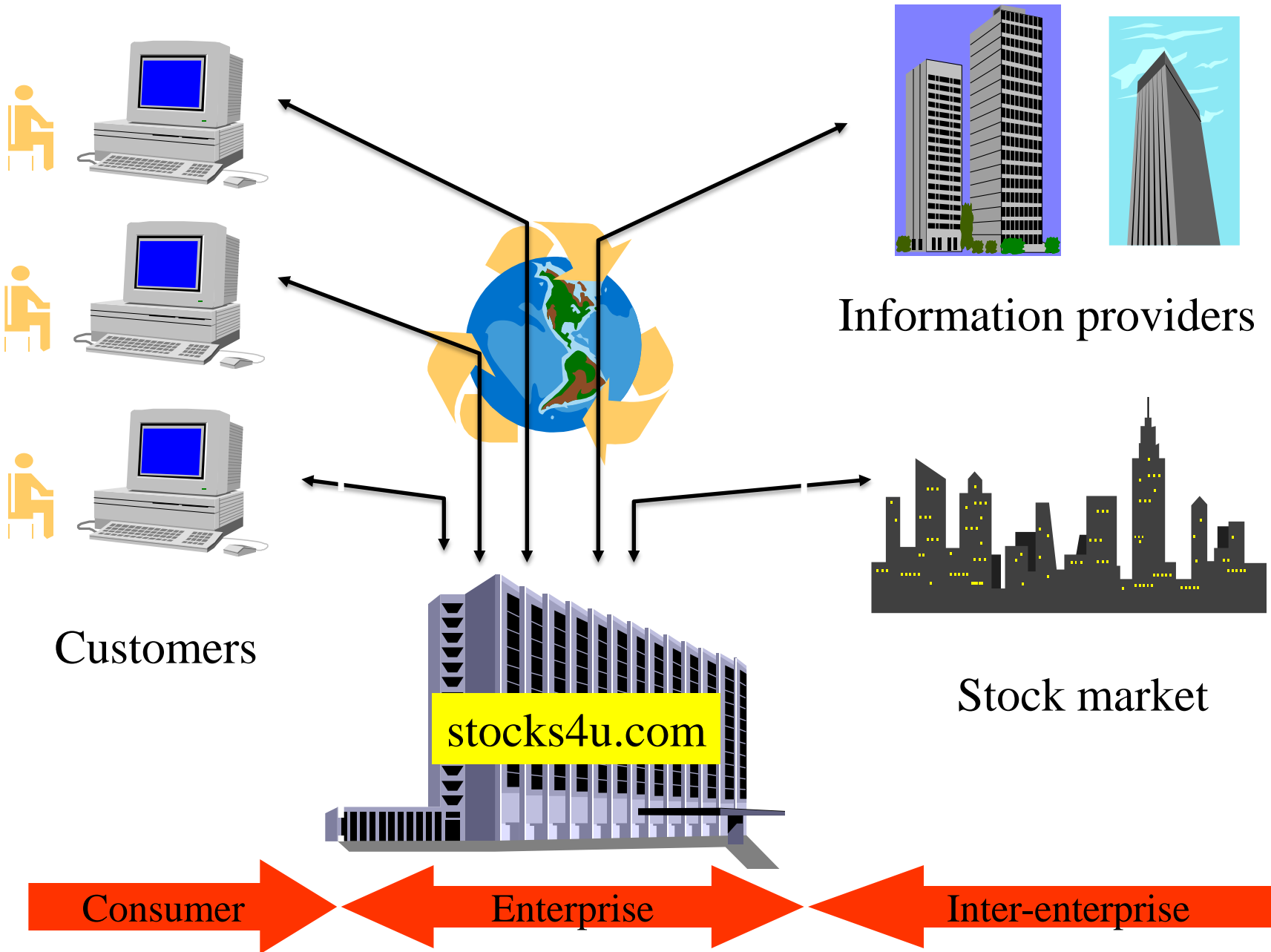




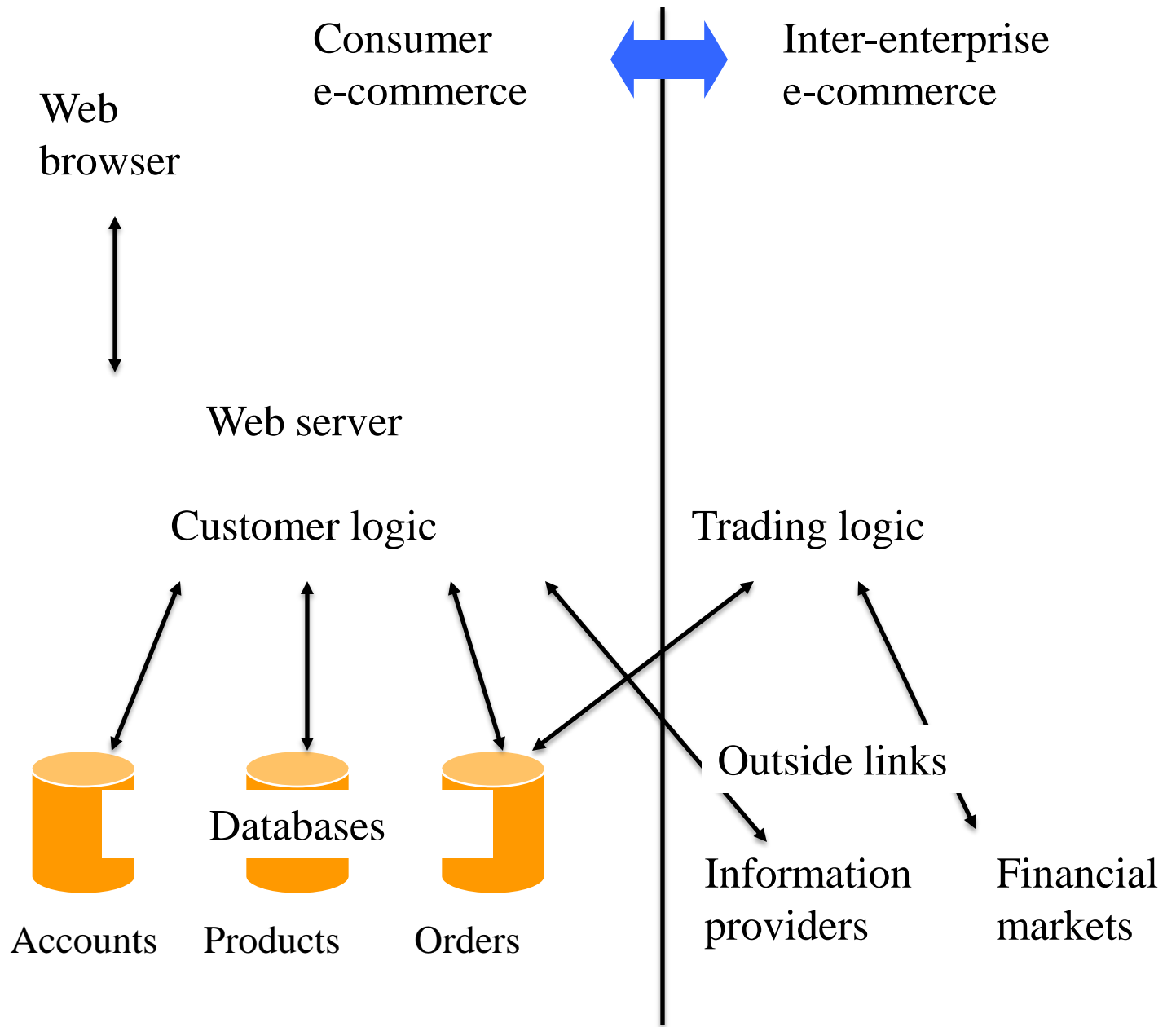
Book merchant

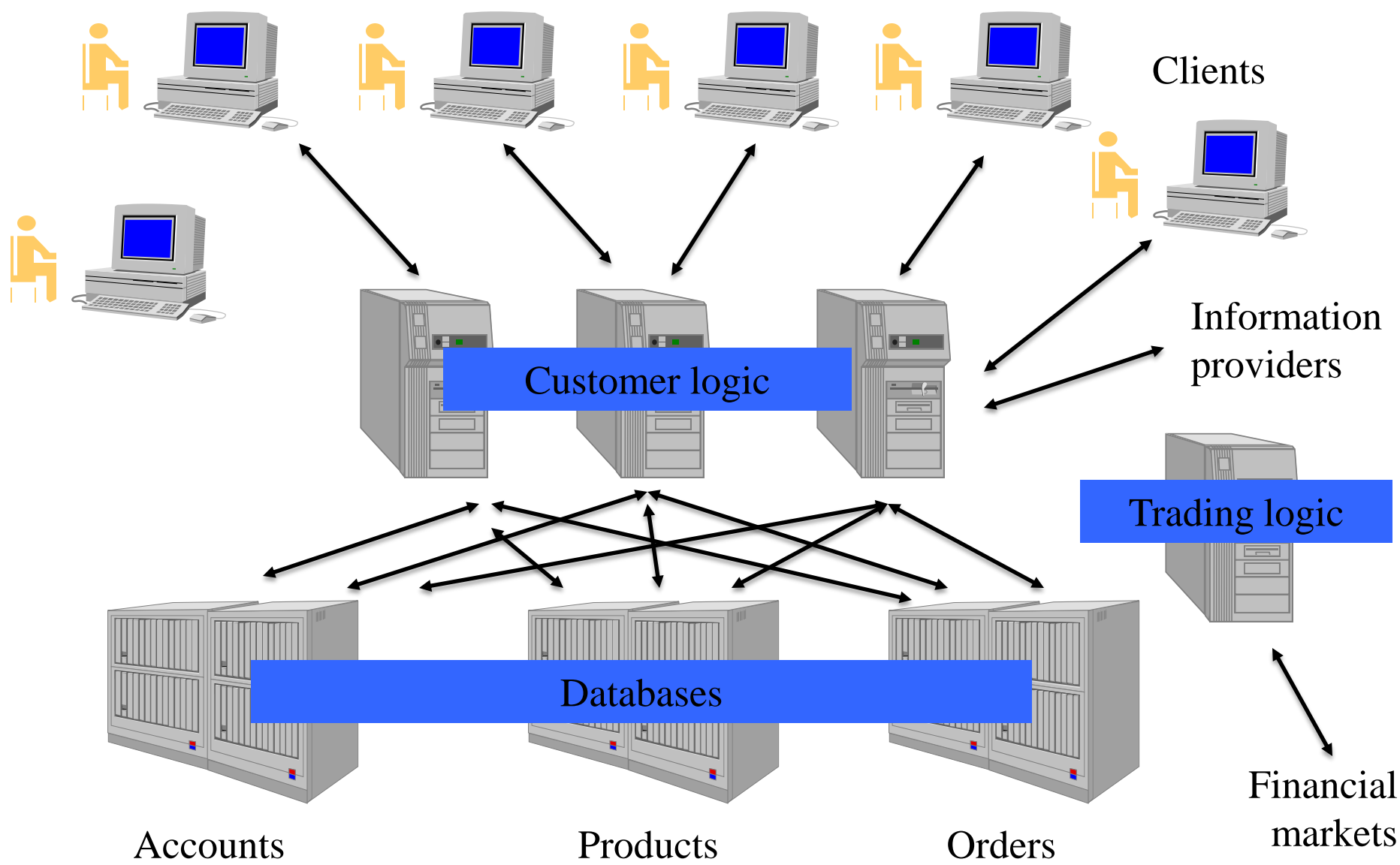


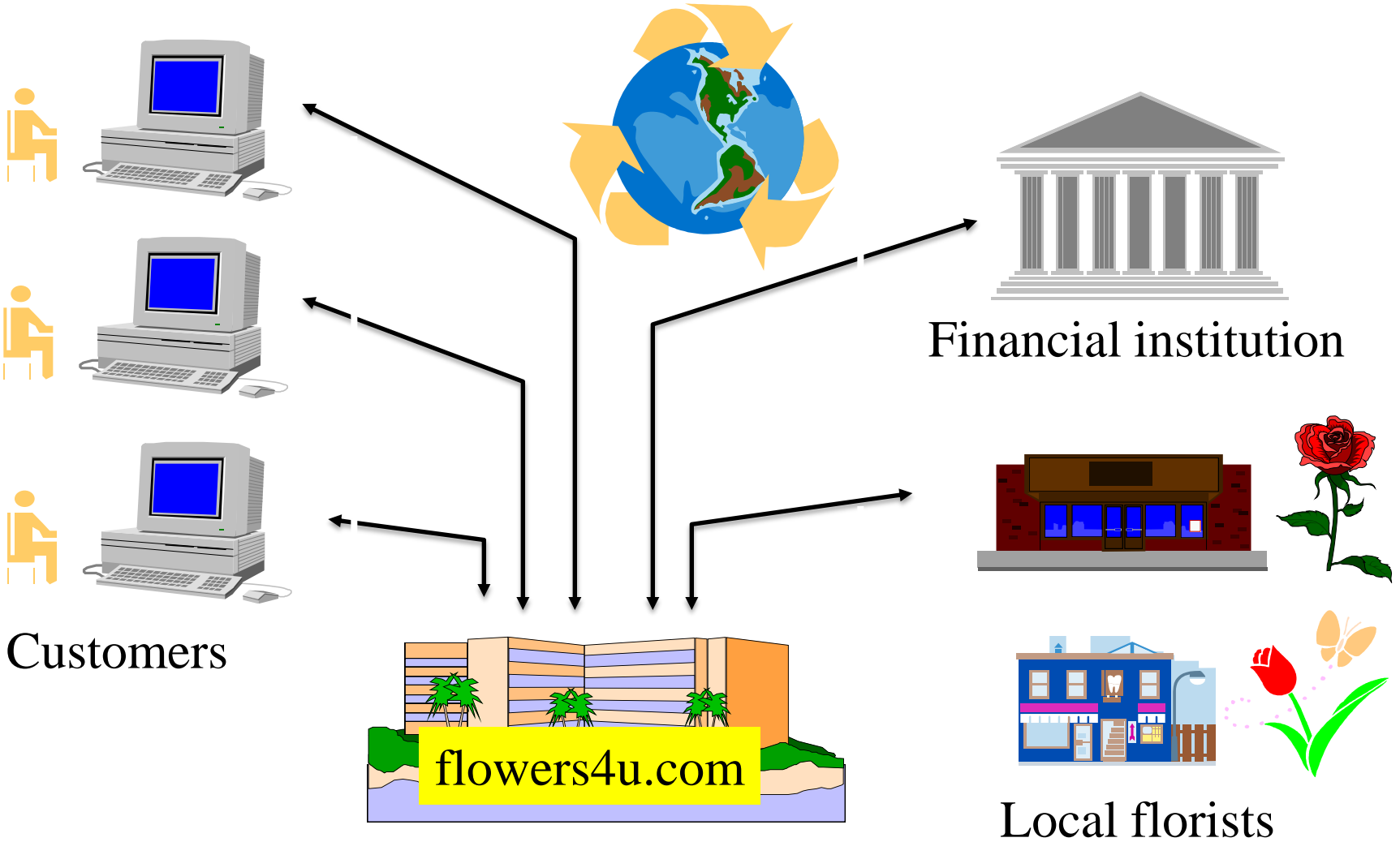




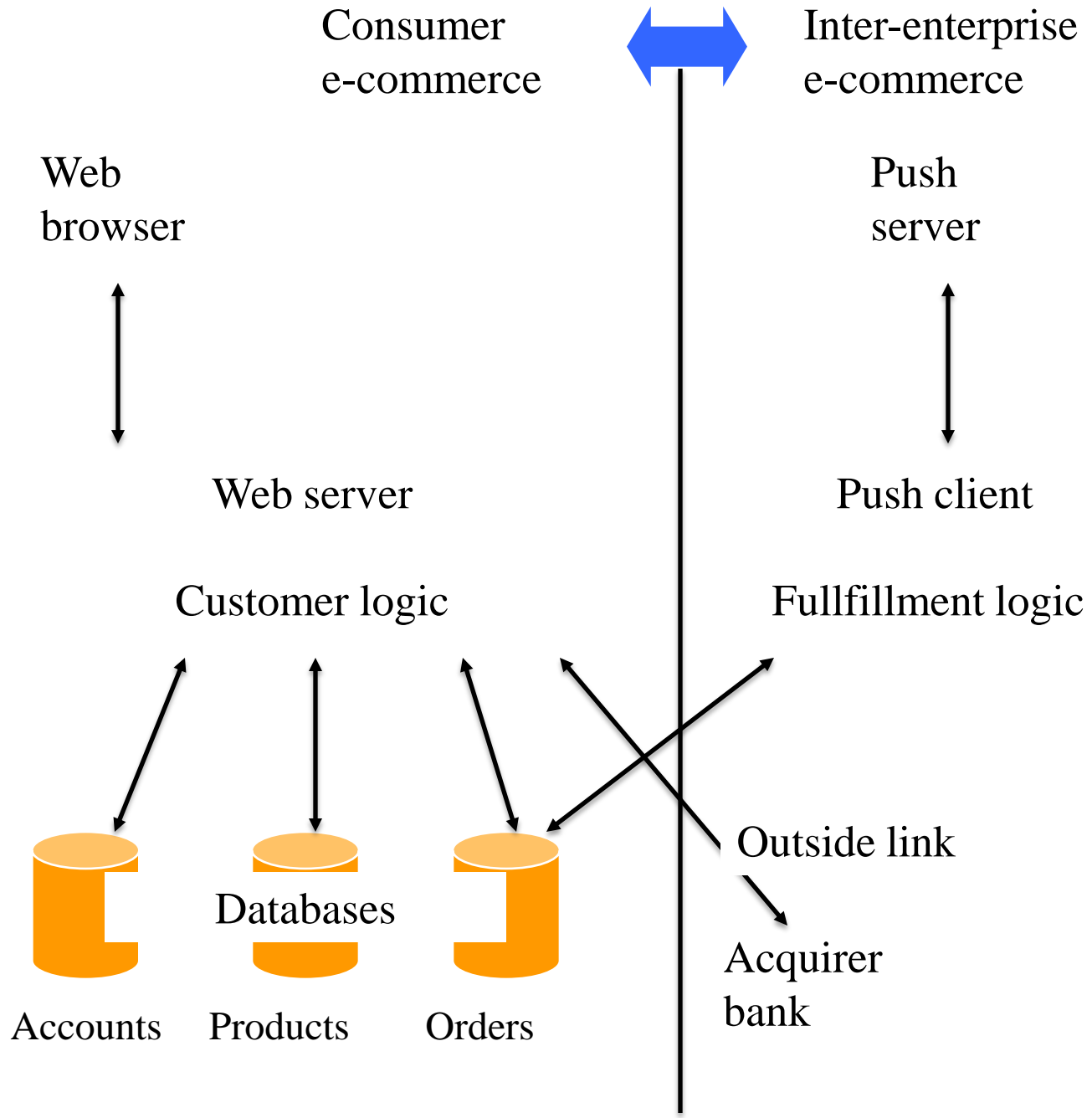
Stock trader

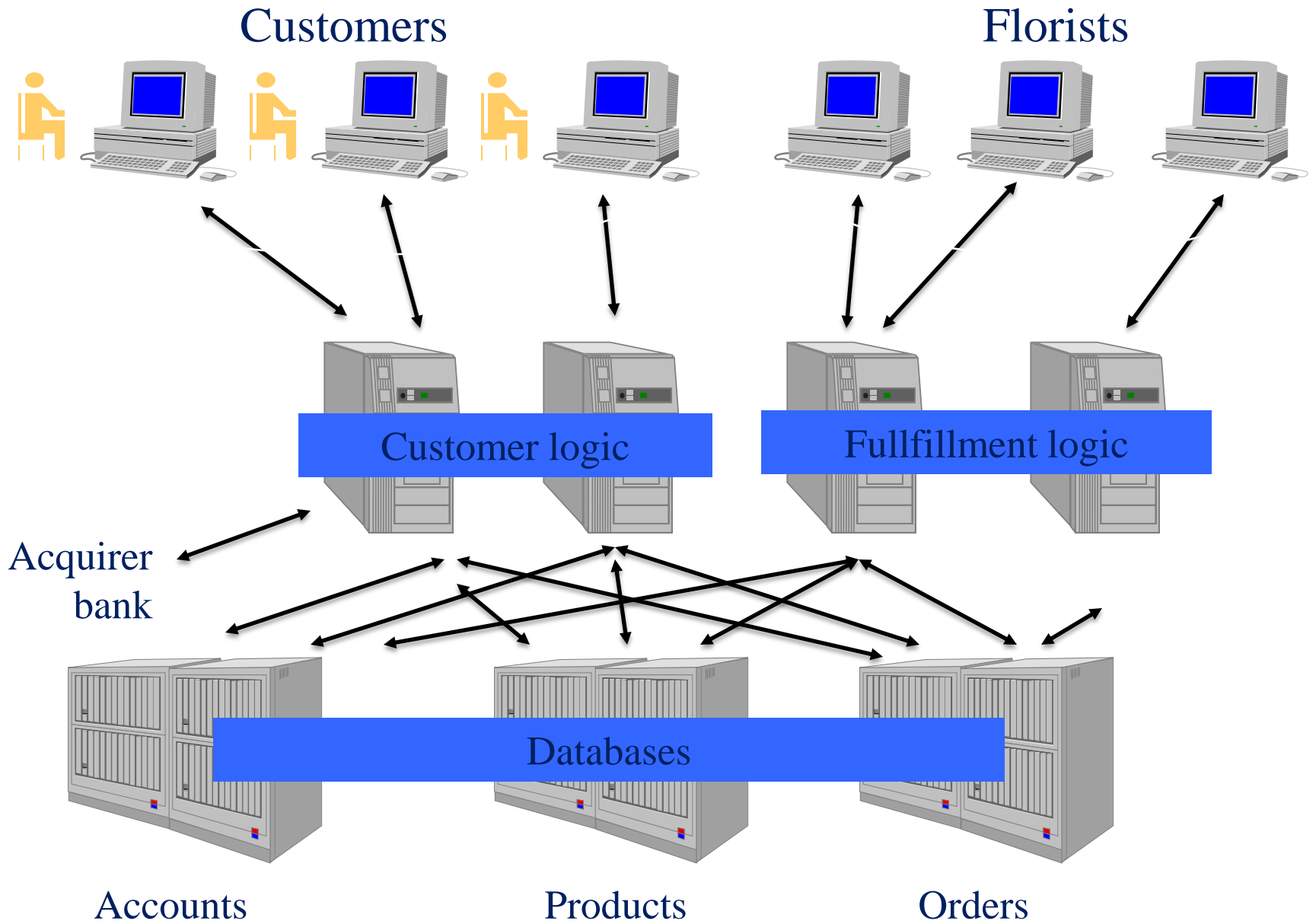






Florist delivery





Shortcomings of client/server

- Departmental solution
- Proliferates non-interoperable technologies and applications
- Hardwired applications lose flexibility

What are some goals and likely characteristics of future *enterprise* architectures?

Questions

