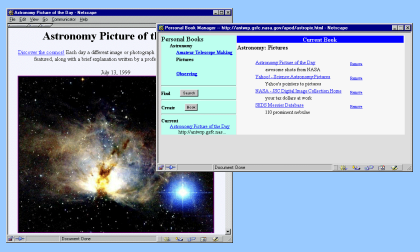
Web Intermediaries (WBI)

Rob Barrett and Paul Maglio
IBM Almaden Research Center
http://www.almaden.ibm.com/cs/wbi/

Device Transcoding

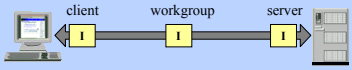
Personal Books



Transcoding

Decouple information/presentation
Preferences from user/device/content

Intermediaries

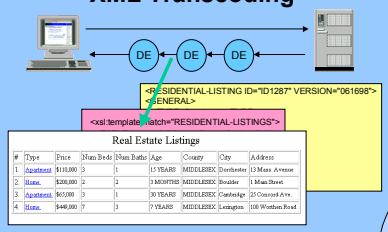


- Intermediaries: New control points
  - Customization
  - Annotation
  - Collaboration
  - Transcoding

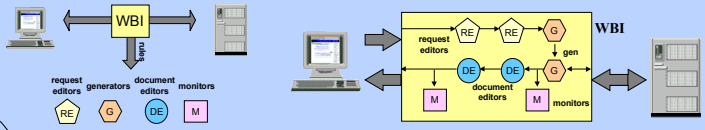
Collaboration

Web becomes social place
Awareness and interaction

XML Transcoding



WebPlaces

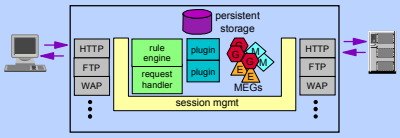


WBI Status

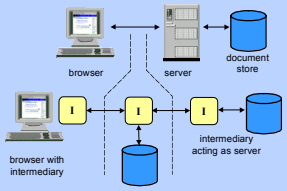
- Productization
  - NCSD transcoding backbone
- alphaWorks WBI Dev Kit
  - developer awareness
  - licensing opportunities
- Research
  - new applications
  - scalability, security

WBI Architecture

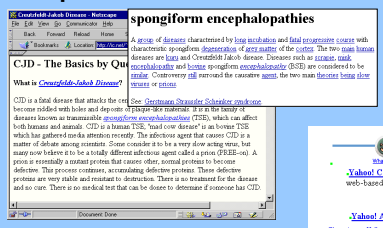
- Transport (Medium)
- Protocols (Language)
- Content Types (Messages)
- Intermediary Architecture (Mechanism)
  - Building a good intermediary is difficult
    - reliable, high performance, portable
  - Separate apps from low-level details



Intermediaries Everywhere

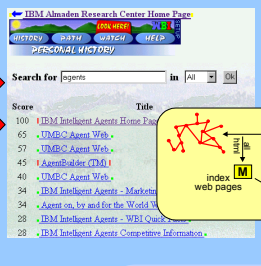


Specialist Dictionaries

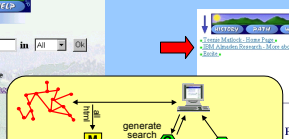


Traffic Lights

Personal History



Shortcuts



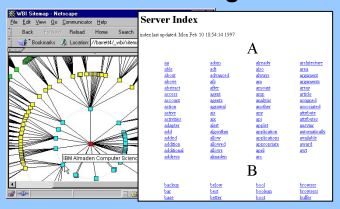
Annotation

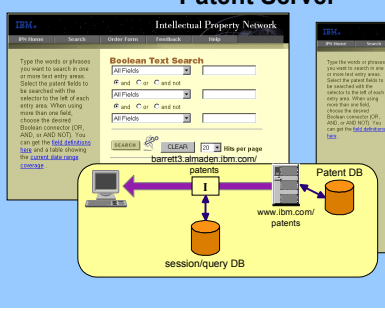
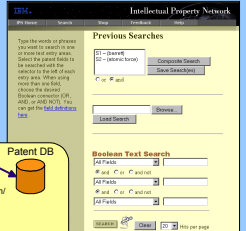
More information than original author
Provide new resources

Customization

Personalize
Maintain state and history
Build and leverage user models

Server Navigation



Advisors

Patent Server