A Digital Library Architecture For UVA

DLF Spring Forum

April 19,2004

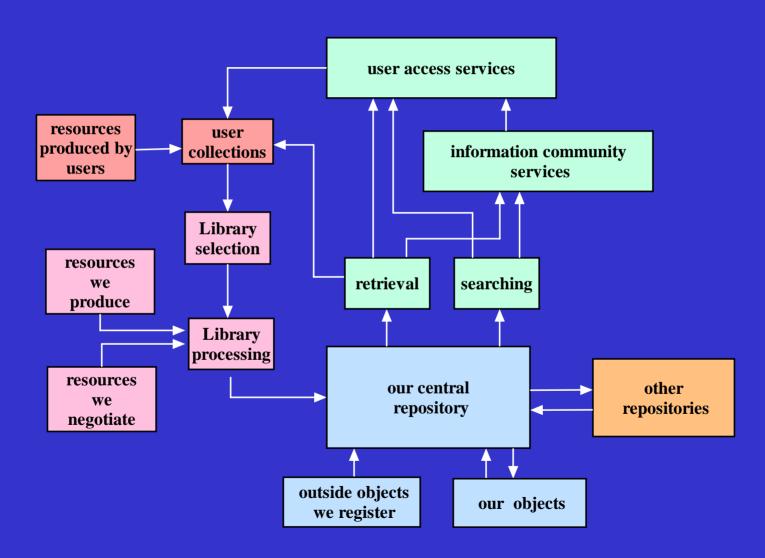
Digital Library Assumptions:

- All media, all content types integrated into one collection
- A network that is built to be a part of a global network
- The global network will be built by corporations, governments and libraries
- Searching and browsing are equally important

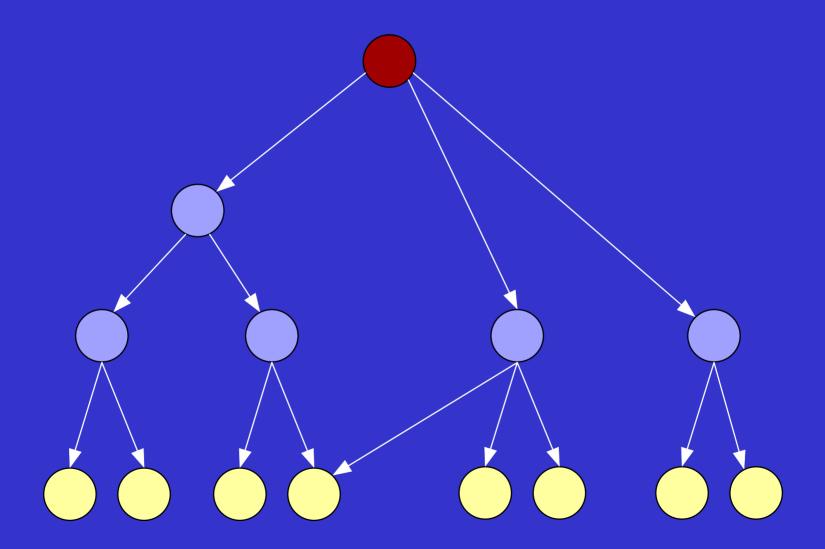
Digital Library Assumptions (cont.):

- We will provide to tools to make sophisticated use of our collections
- Any given resource can be presented in any number of contexts
- Increasingly, we will be faced with born-digital materials
- This is going to take a very long time ...

The Big Picture



The digital library as a network



A data object is one unit of content.

policies

Persistent ID (PID) Default Disseminator Your Extension Your Extension Datastream (item) Datastream (item) Datastream (item) System Metadata

Digital object identifier methods for disseminating "views" of content set of content or metadata items metadata about history and

Explicit Relationships

Persistent ID (PID)

Disseminators

System Metadata

TextTextTextText
TextTextText
<image tag>
TextTextText
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TextTextTextText
TextTextText
TextTextText
<image tag>
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<image tag>
TextTextTextText

Persistent ID (PID)

Web-default

Web-image

Admin

System Metadata

Page 1 Image

Persistent ID (PID)

Web-default

Web-image

Admin

System Metadata

Page 2 Image

Persistent ID (PID)

Web-default

Web-image

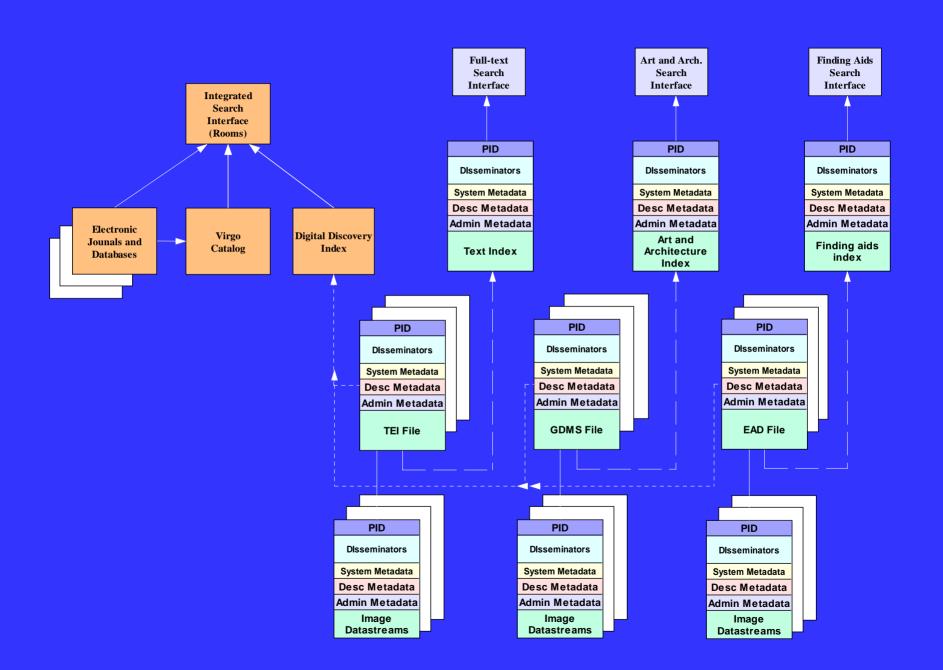
Admin

System Metadata

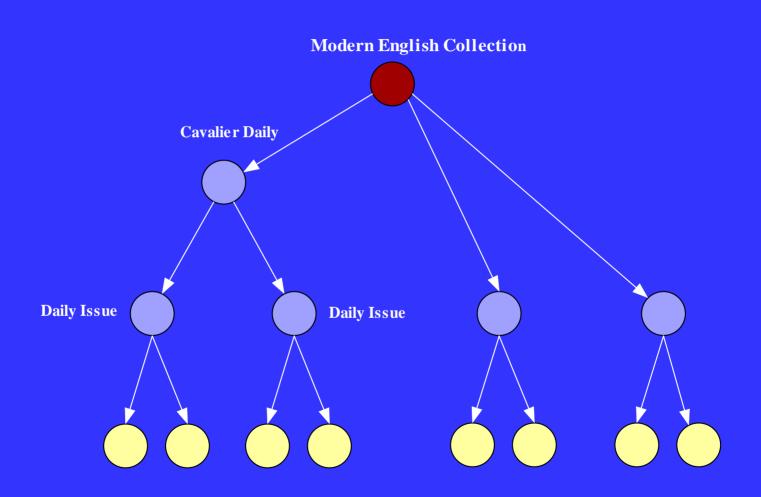
Page 3 Image

Implicit Relationships

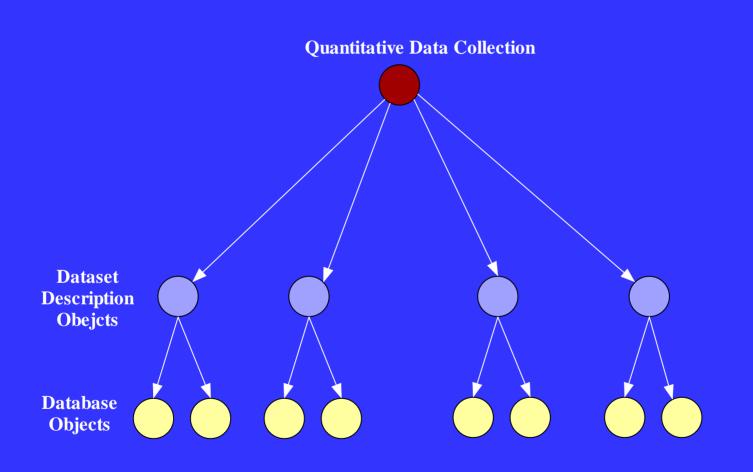
- Defined by rules, i.e XPATH statements
- The PID of the parent is in the child's metadata
- Child objects are assembled at dissemination time
- Child objects can respond to more than one parent



Explicit Data Modeling



Quantitative Data Collections



Collecting Scholarly Projects

