

Building Personal Collections and Networks of Digital Objects in a Fedora Repository Using VUE

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Outline

- Motivation
- Architecture
- Implementation in VUE
- Customization in Fedora
- Demo

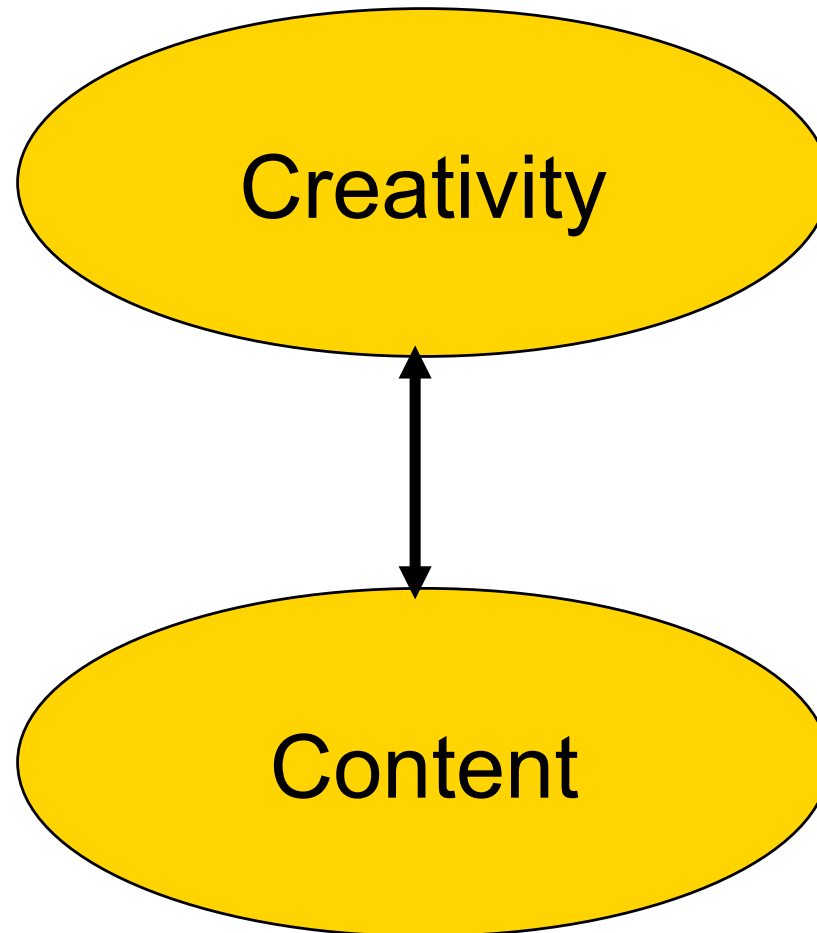
Motivation

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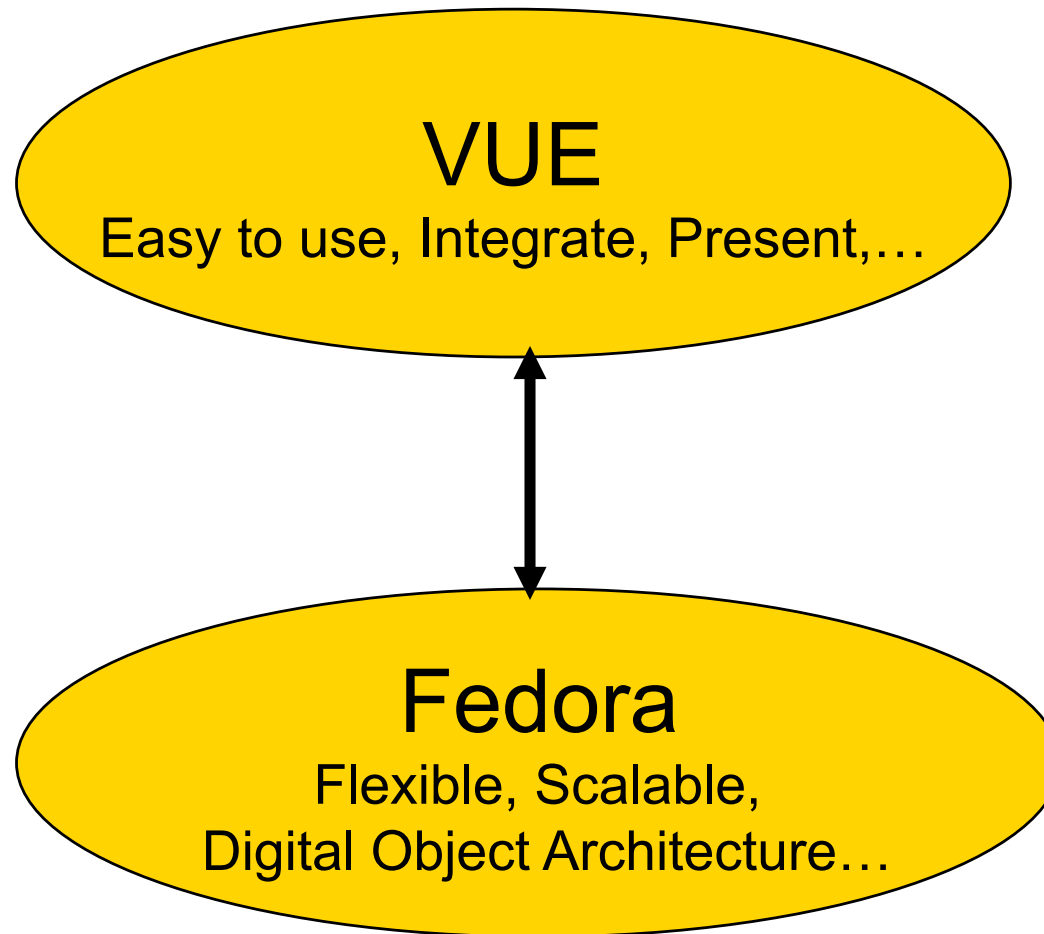
Ease of Use

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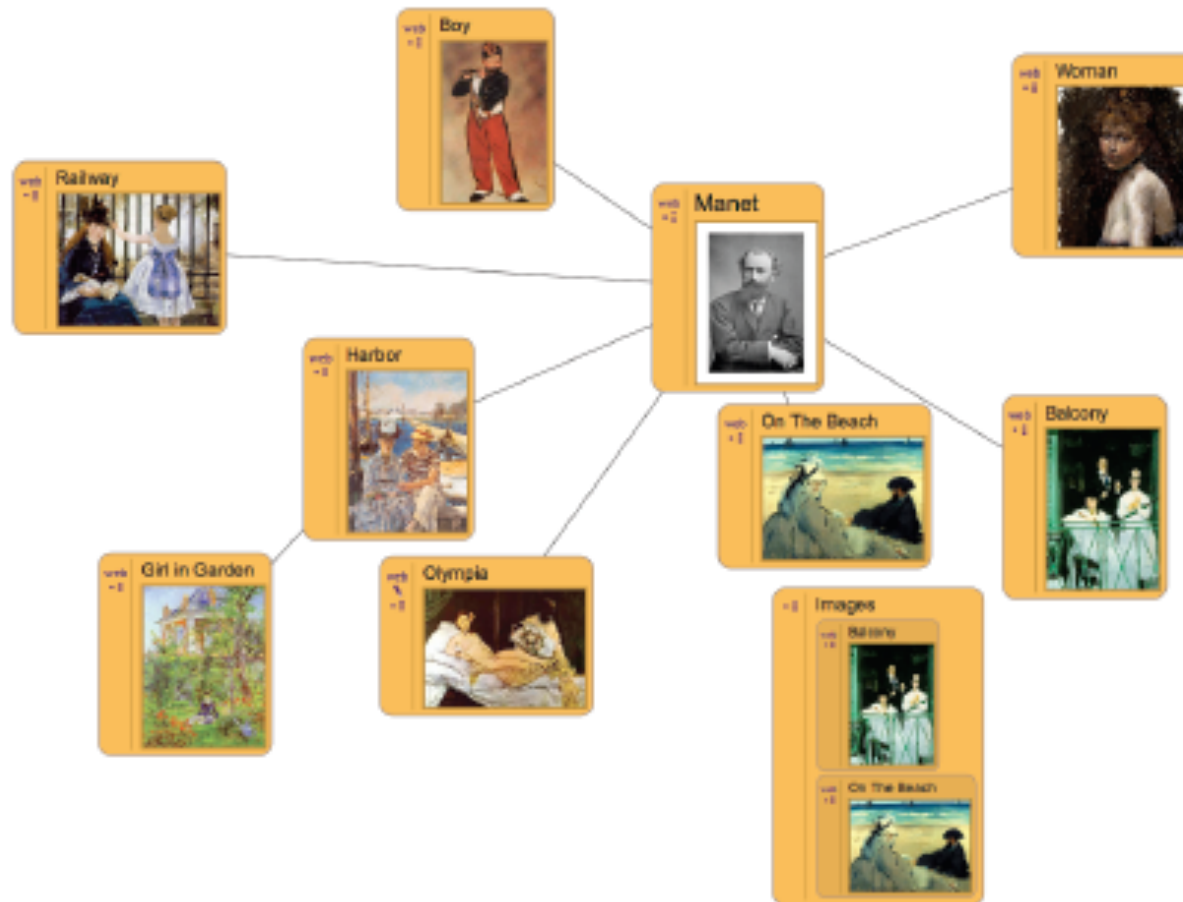
Connecting



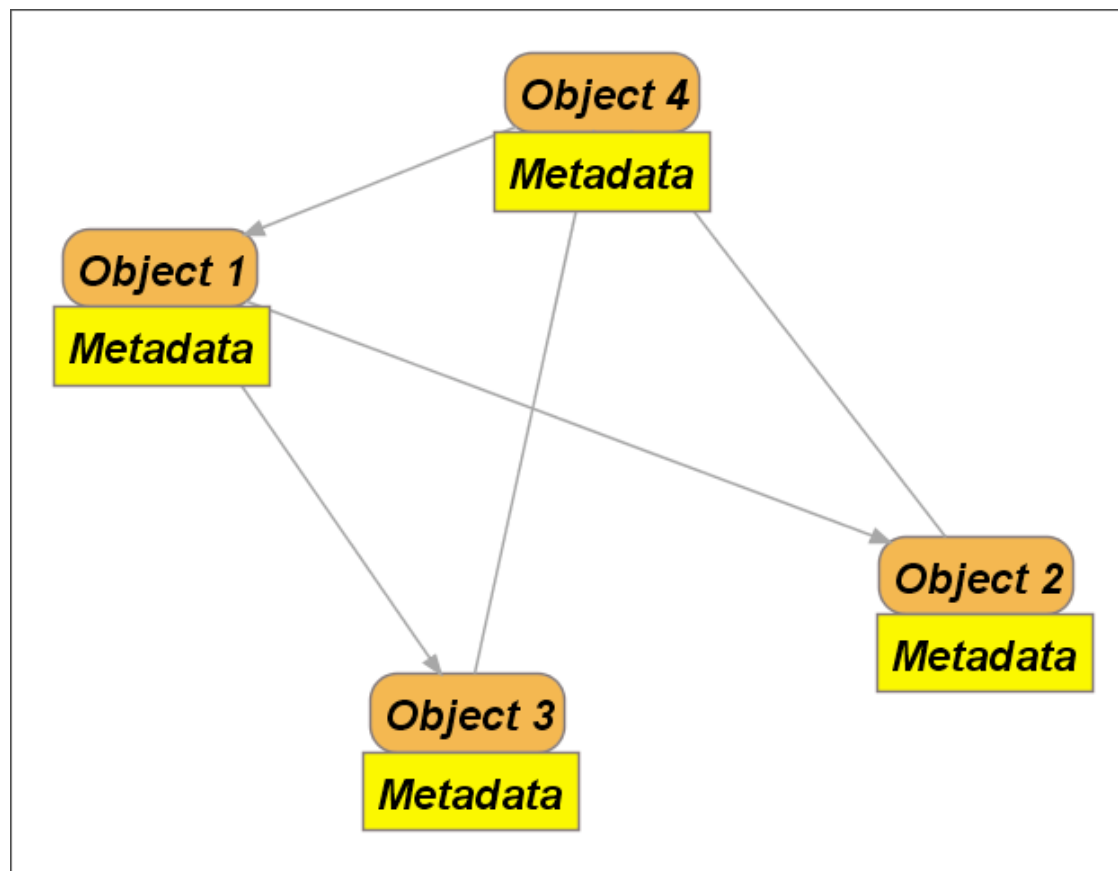
Connecting



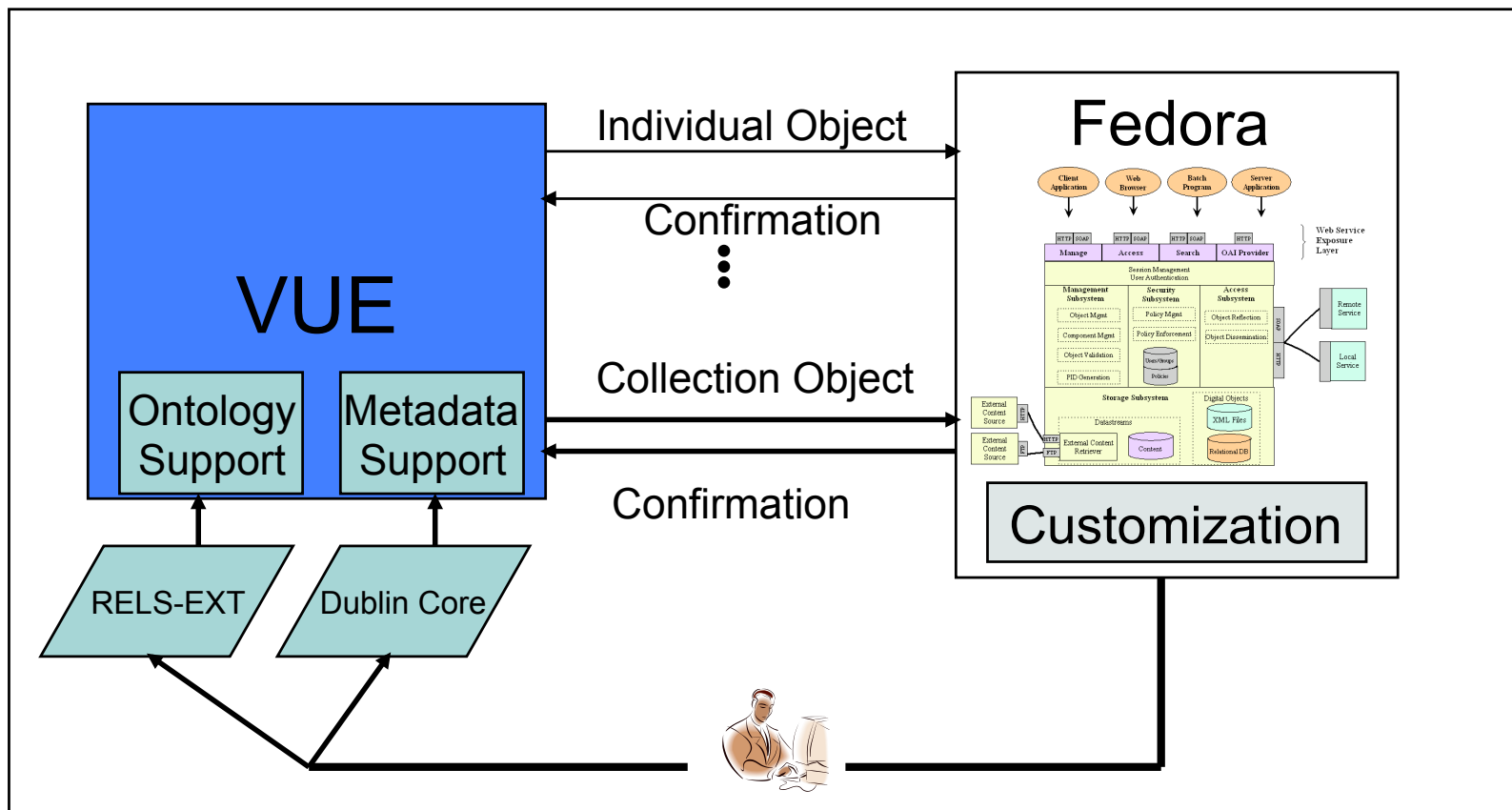
Can digital collection be a concept map? – What is VUE



Can a Digital Collection be a Concept Map?



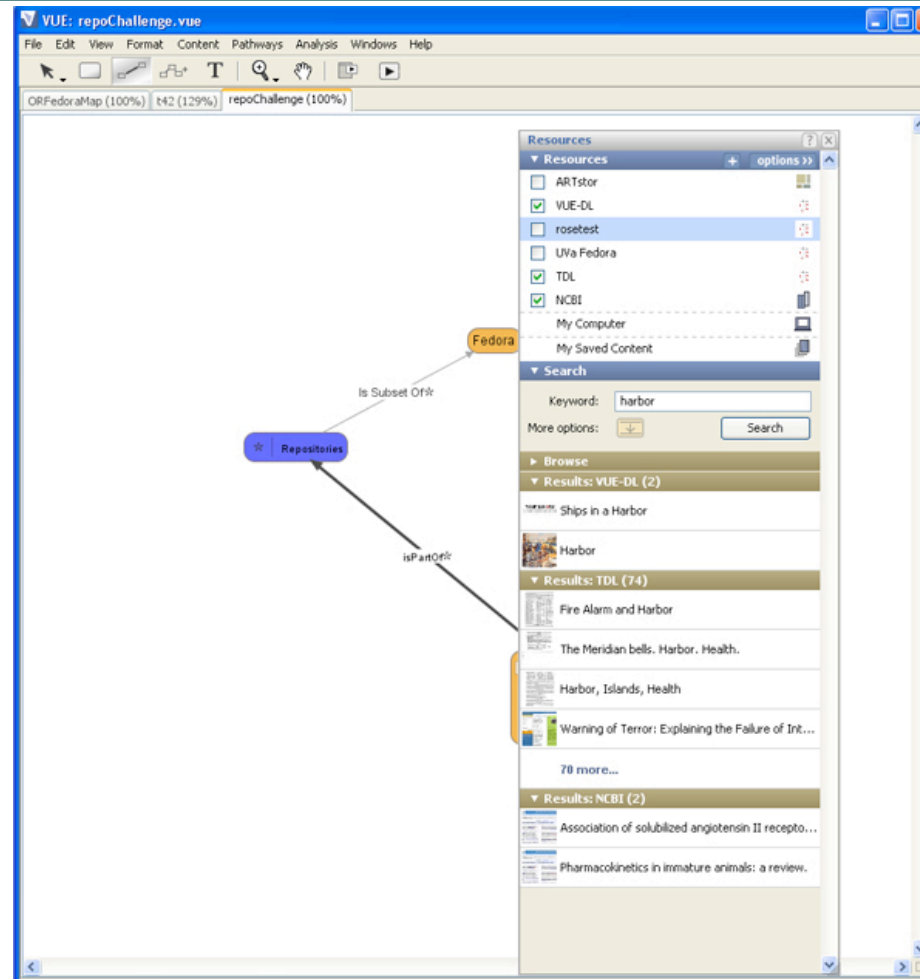
Architecture



Implementation in VUE

- Search
- Unique Ids
- Metadata
- Ontology
- Persistence

Implementation in VUE Search



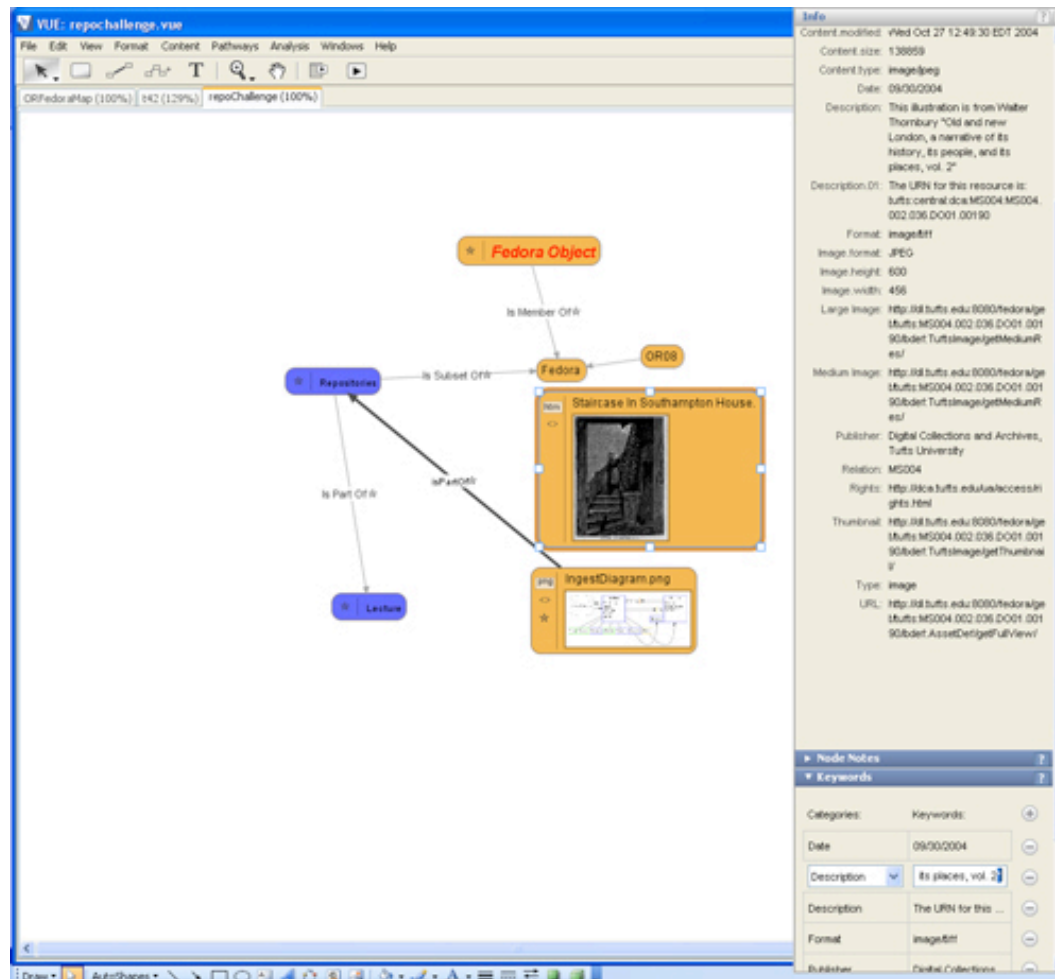
Implementation in VUE **Unique ID**

It is **32-bit** long based on ***date, time,***
and ***mac address***

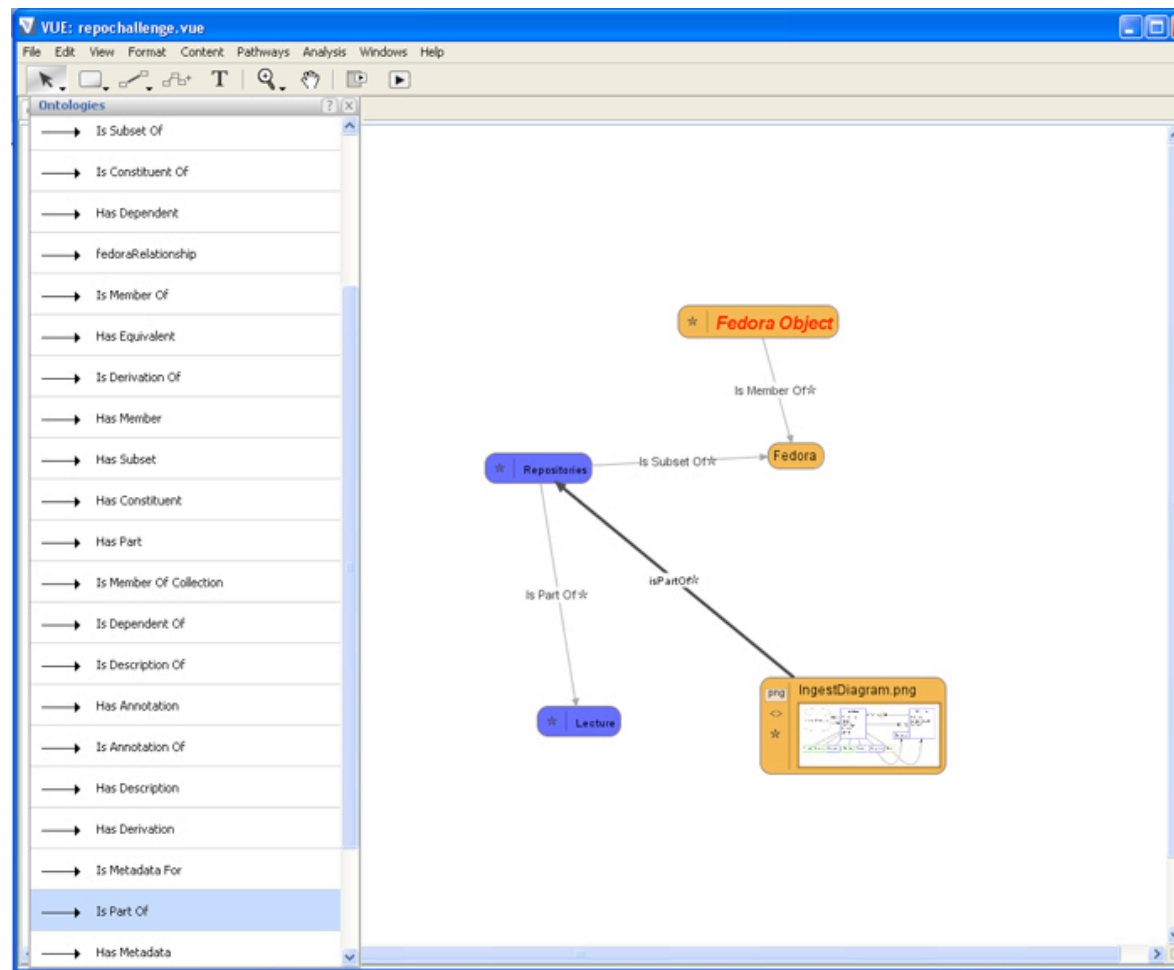
Generated by **VUE**

vue:a40711e982405ee401a80747f97a3e30

Implementation in VUE Metadata

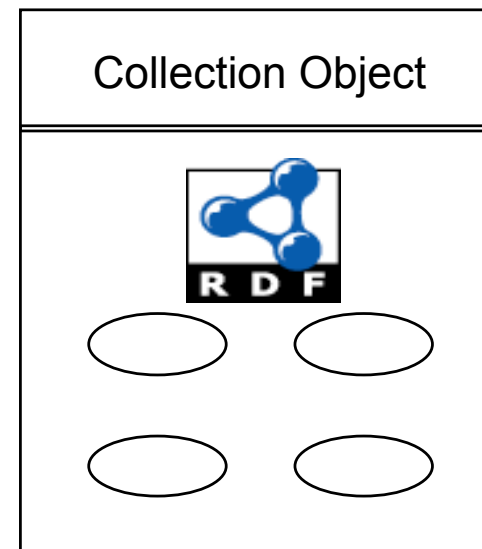


Implementation in VUE Ontology



Implementation in VUE **Persistence**

- Concept Map
- Collection Map
 - Individual Objects
 - Object Metadata
 - Relationships



Customization in Fedora

- Content Models
- Security Model
- Collection Framework
- Versioning

Customization in Fedora

Content Models

Three content models variations

- VUE maps (tufts/vue/map/generic)
- managed objects (tufts/vue/managed)
- remote objects (tufts/vue/remote)



Fedora Digital Object
Default Disseminator - Item Index View

Object Identifier (PID): vue:8a93f06782405cb600b5615d1ee28a48

Version Date: current

| Item ID | Item Description | MIME Type |
|----------|--|------------|
| RELS-EXT | Relationships to other objects | text/xml |
| DC | Dublin Core Metadata | text/xml |
| myDL.jpg | myDL.jpg | image/jpeg |
| RESOURCE | myDL.jpg | image/jpeg |

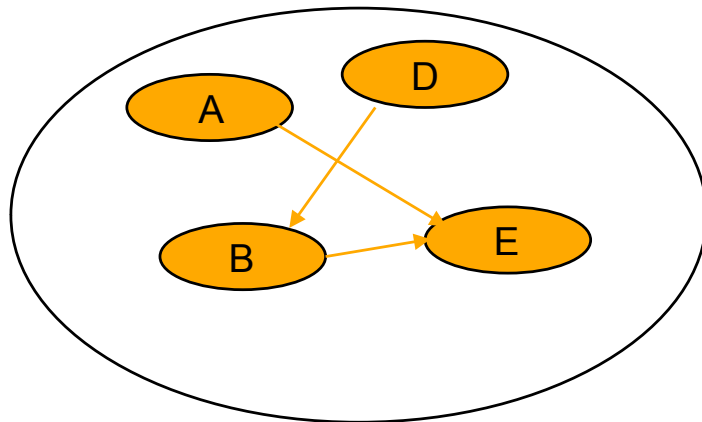
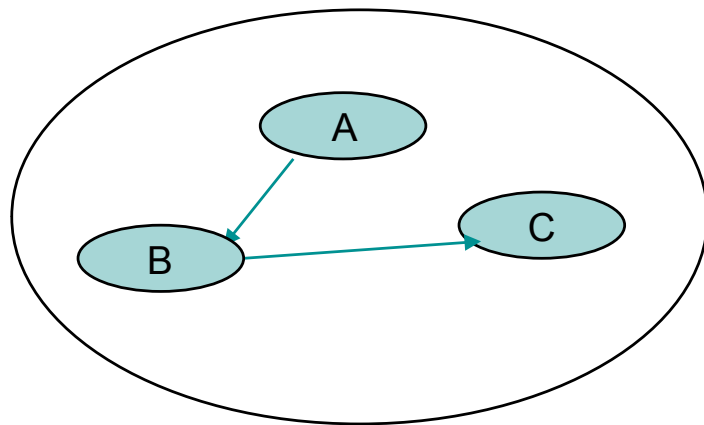
Customization in Fedora

Security Model

- Goals
 - Encourage contributions
 - Preserve the integrity of a growing super-map of resources
- XACML Policies
 - Anyone can create objects and upload resources
 - Only owners can modify their objects
 - Everyone can modify the relationship metadata

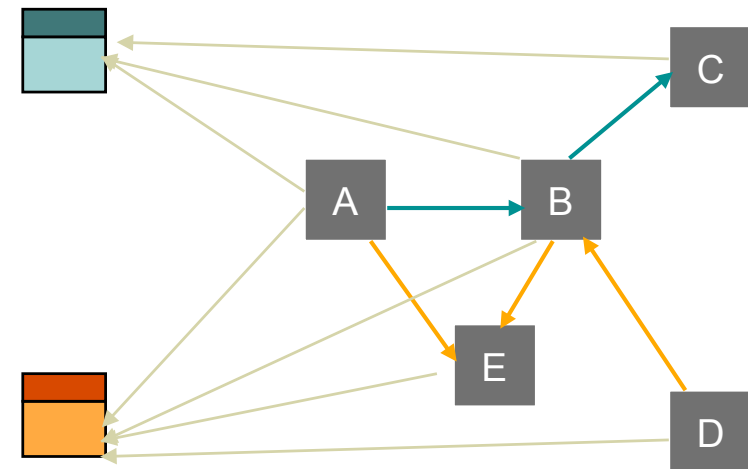
Customization in Fedora

Collection Framework



VUE

FEDORA



Customization in Fedora

Versioning

- Policy and Fedora versioning act as a wiki system
- Ability to roll back is important

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Demo

- Creating Map of resources
- Adding Metadata
- Using Fedora Ontology
- Publishing
 - Map mode
 - Complete mode
- Retrieving

