JCricket: An Editor for Share-VDE and Beyond

Entity management, connection with third parties and cross-domain extensions

ALA Core - Linked Data Interest Group, March 7th 2023, Andrea Gazzarini

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Andrea Gazzarini: Who I am

- Software Engineer (1999-)
- “Hermit” Software Engineer (2010-)
- Programming Passionate
- Information Retrieval Passionate
- Author of “Apache Solr Essentials”
- Apache Qpid (past) Committer
- Founder of SpazioCodice
- Share-VDE Lead Architect
- Husband & Father
- Bass Player
- Chapman Stick (aspiring) Player
The Share-VDE Initiative
Share-VDE: Share Virtual Discovery Environment

In a Nutshell

Share-Virtual Discovery Environment is a library-driven initiative which brings together, in a shared discovery environment, the bibliographic catalogues and authority files of a growing number of leading academic and national libraries from across North America and Europe.
Share-VDE Knowledge Base
Share-VDE manages a Knowledge Base which consists of clustered, integrated and enriched entities.

In Share-VDE, a tenant is represented by a set of institutions contributing to the same Knowledge base.

An institution within a tenant is called provenance. We use that term because we want to retain the relationship between Share-VDE entities and data that originally contributed to them.
Multiple tenants form the **Share Family**. Family members interoperate through a centralized registry.
Ingestion Pipeline: How does it work?
The Entity as a “Prism”
Share-VDE: the Domain Model
Share-VDE Cluster: the Prism

UNIVERSITY OF ALBERTA LIBRARY

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Stanford

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National Library of Norway

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### Properties: Attributes, Relationships, Links

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#### Attributes
- An attribute is a data property, having a literal as value

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#### Relationships
- A relationship is a connection between two Share-VDE Prisms

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#### Links
- A link is a connection between a Share-VDE Prism and an external reference
Prism: Record-Level Provenance

Each record coming from a **provenance** contributes in building/enriching one or more **Share-VDE prisms**.

A Share-VDE entity can be seen as a **prism** where each **face** represents **data** coming from a given **provenance**.

Each Share-VDE cluster maintains a **link** to the **records** it **originated from**.
Sapientia Edit API: JCricket
The Big Picture: from Genesis to Edit

Data flows into Share-VDE from libraries, institutions and third-party sources (e.g. VIAF, ISNI, FAST)

The Share-VDE knowledge base (Sapientia) contains the integrated/clustered/enriched entities.

Data is mainly searchable through the entity discovery portal.

Data is mainly edited through JCricket, the Share-VDE entity editor.

Any third-party, authorized application can be a Share-VDE editor or reader.
JCricket: Edit Scenarios

**Edit**: a property* of a prism is added/updated/deleted

Lewis Carroll → Lewis Carroll

is author of [https://svde.org/opuses/1827349](https://svde.org/opuses/1827349) → [https://svde.org/opuses/920302](https://svde.org/opuses/920302)

- properties can be
  - attributes
  - relationships
  - links

**Merge**: multiple prisms are merged into one

For example, the editor detects multiple prisms that belong to the same entity.

**Split**: a prism is split into multiple prisms

Several entities have been (wrongly) clustered into one.
Outbound Connectors Framework
Outbound Connectors Architecture

Data flows into Share-VDE from libraries, institutions and third-party sources (e.g. VIAF, ISNI, FAST)

The Share-VDE knowledge base (Sapientia) contains the integrated/clustered/enriched entities.

Data is mainly edited through JCricket, the Share-VDE entity editor.
Get involved!

Becoming part of the global Share Family means sharing data and co-operating with the greater international library community.

The family continues to expand as more and more libraries worldwide embrace the opportunity to be involved in an international network of information, creating dialogue, participation and partnership.

Get in touch with us to find out more about how the Share family can help your library:

- info@svde.org
- https://wiki.svde.org/
- https://www.svde.org/about/about-share-vde
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