

1

BASIC FEATURES

PoolParty's core competencies
at a glance

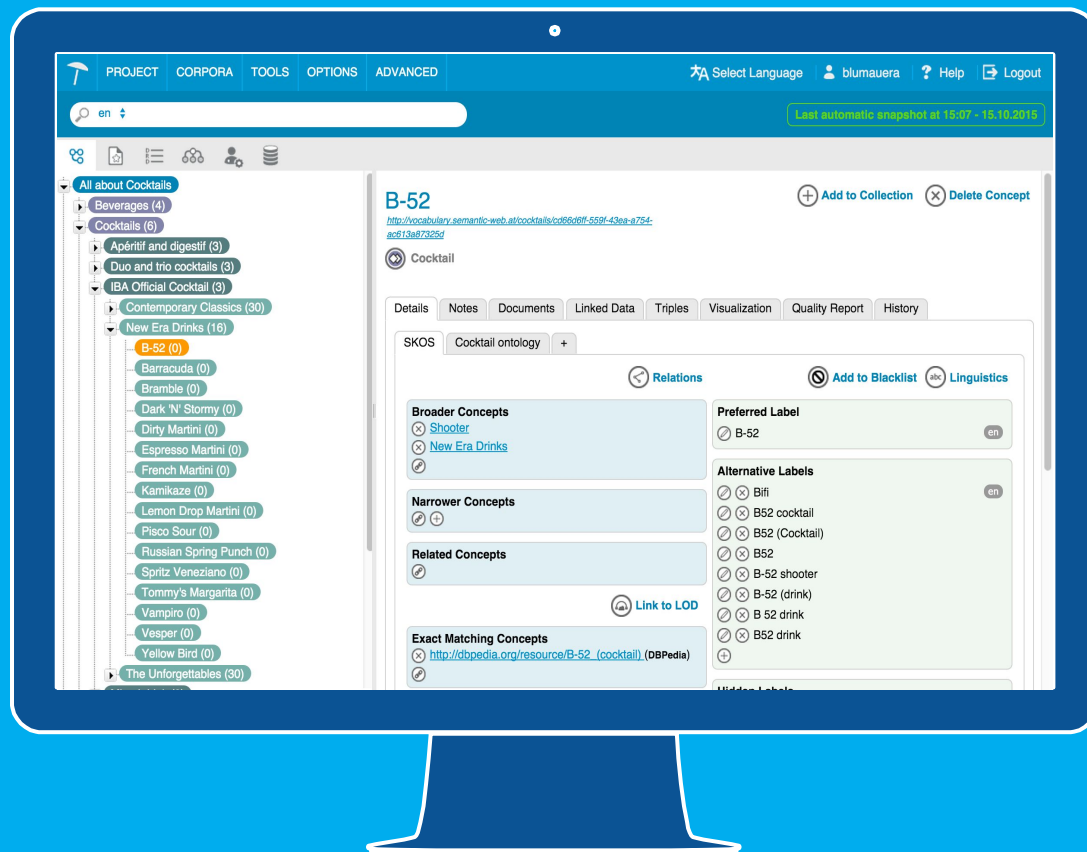
2

Maintaining Vocabularies

Taxonomies and controlled vocabularies are maintained by using the SKOS standard of W3C.

The intuitive user interface provides comfortable control elements like drag & drop or autocomplete.

A tree view on the taxonomy plays a central part in navigation and orientation.



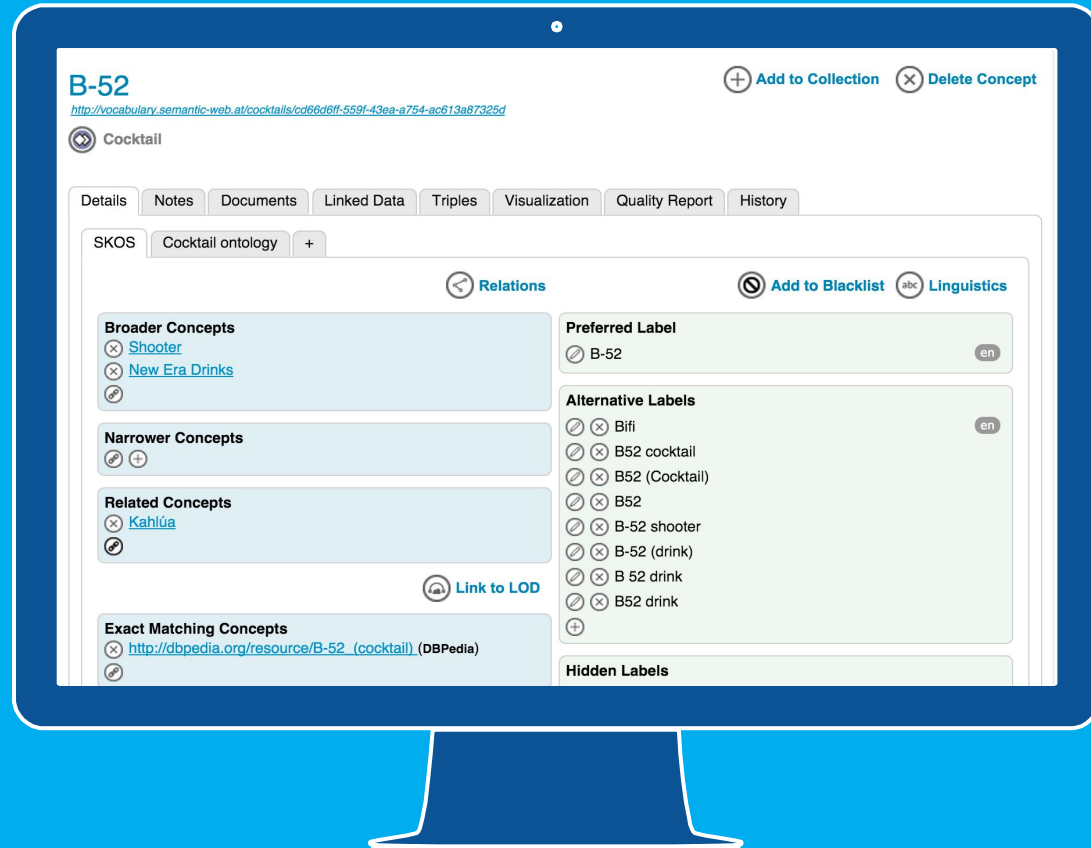
3

SKOS Editor

The SKOS View on a concept allows the management of labels (e.g. synonyms), hierarchies and non-hierarchical relations, and mappings to other vocabularies.

Also more complex actions like merging of concepts, moving of subtrees or the creation of poly-hierarchies are supported.

PoolParty fully covers the SKOS standard of W3C incl. SKOS-XL and SKOS Collections.



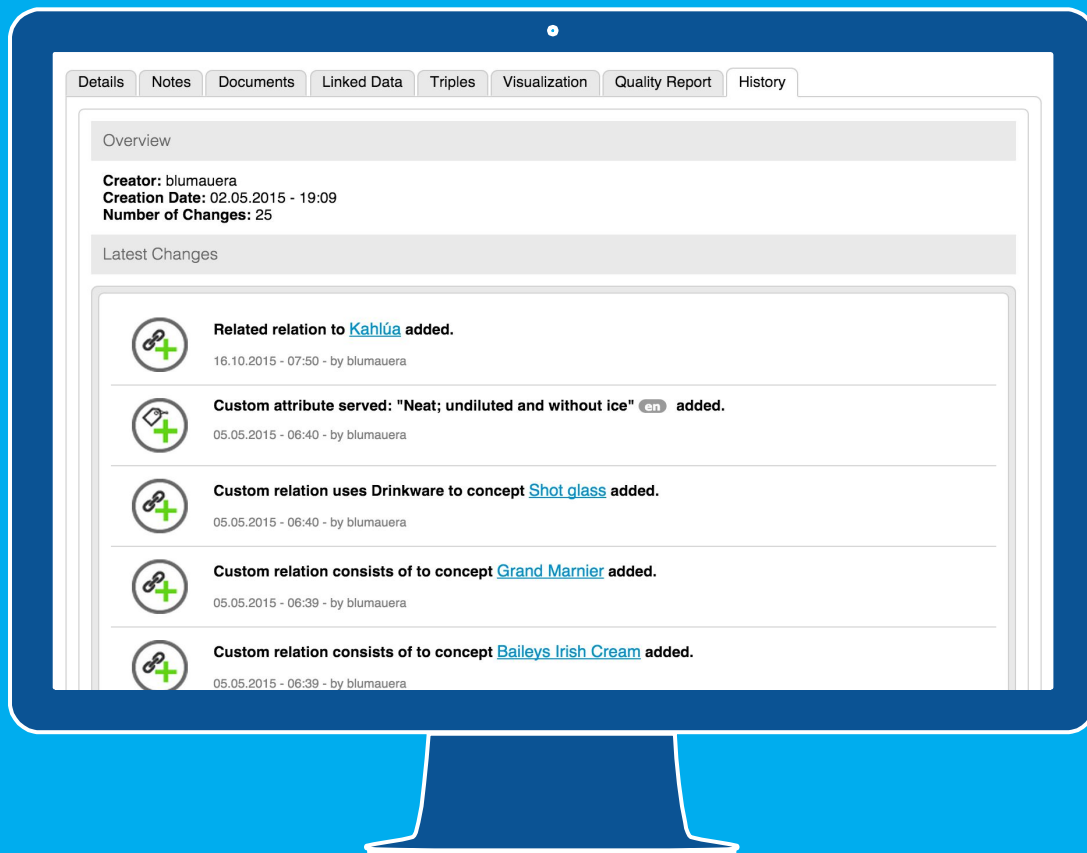
4

History & Audit Trails

Every change being made on a concept of a thesaurus is stored and can be tracked.

A full history containing the author, timestamp and action being taken can be displayed for each concept and for the whole project.

Recovery and rollback can be managed by PoolParty's snapshot mechanism.



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Linking & Mapping

The same concept can occur in several taxonomies and can be put in different contexts.

PoolParty provides a comfortable dialogue for the semi-automatic linking between concepts from several thesauri.

Additionally, concepts can also be mapped to linked data sources like DBpedia or Geonames, or even to non-RDF sources provided by you.

The screenshot displays the 'Project Linking' interface with the following components:

- Project Linking Header:** Includes tabs for 'Tree View', 'List View', and 'Batch Linking'.
- Select Project:** A dropdown menu showing 'Schools Online Thesaurus' and a 'Link' button.
- Select Concept Scheme or Concept per Drag and Drop:** A search input field with the placeholder text 'Select Concept or Concept Scheme'.
- Batch Linking Results:** A section with two rows of results, each featuring 'Approve' and 'Reject' buttons and a match type dropdown set to 'Exact Match'.
 - Row 1: 'Orange - Orange, prefLabel/prefLabel match'
 - Row 2: 'Coffee - Coffee, prefLabel/prefLabel match'
- Comparison View:** Two hierarchical tree views are shown side-by-side.
 - Left Tree (Schools Online Thesaurus):**
 - Beverages
 - Wine
 - Distilled beverage
 - Non-alcoholic beverage
 - Soft drink
 - Juice
 - Dairy product
 - Coffee (highlighted with a dashed orange border)
 - Espresso
 - Alcoholic beverage
 - Right Tree (Concept Scheme):**
 - Primary industry
 - Mining
 - Agriculture
 - Beekeeping
 - Agricultural land
 - Crops
 - Coffee (highlighted with a dashed orange border)
 - Cereal grain
 - Sugar cane
 - Flower farming

- Metadata:**
- Left Tree (Coffee):** Preferred Label: Coffee; Alternative Labels: Hand picked coffee, Joe (coffee), Coffee brews, Cafe de Columbia, Specialty Coffees, Coffee (drink), Malabar (beans), Coffe, Used coffee ground, Gavaccino, Used coffee grounds, Coffee brewing method, Roasted coffee, Specialty coffees, Coffee Bags, Regular coffee, Caffé, Decaffeinated coffee, Decaffeinated Coffee, Brazilian coffee, Kawha, Gourmet coffee, Raktajeno, Cup of Joe, Kaffee.
- Right Tree (Coffee):** Preferred Label: Coffee; Hidden Labels: Coffee; Scope Notes: Related:

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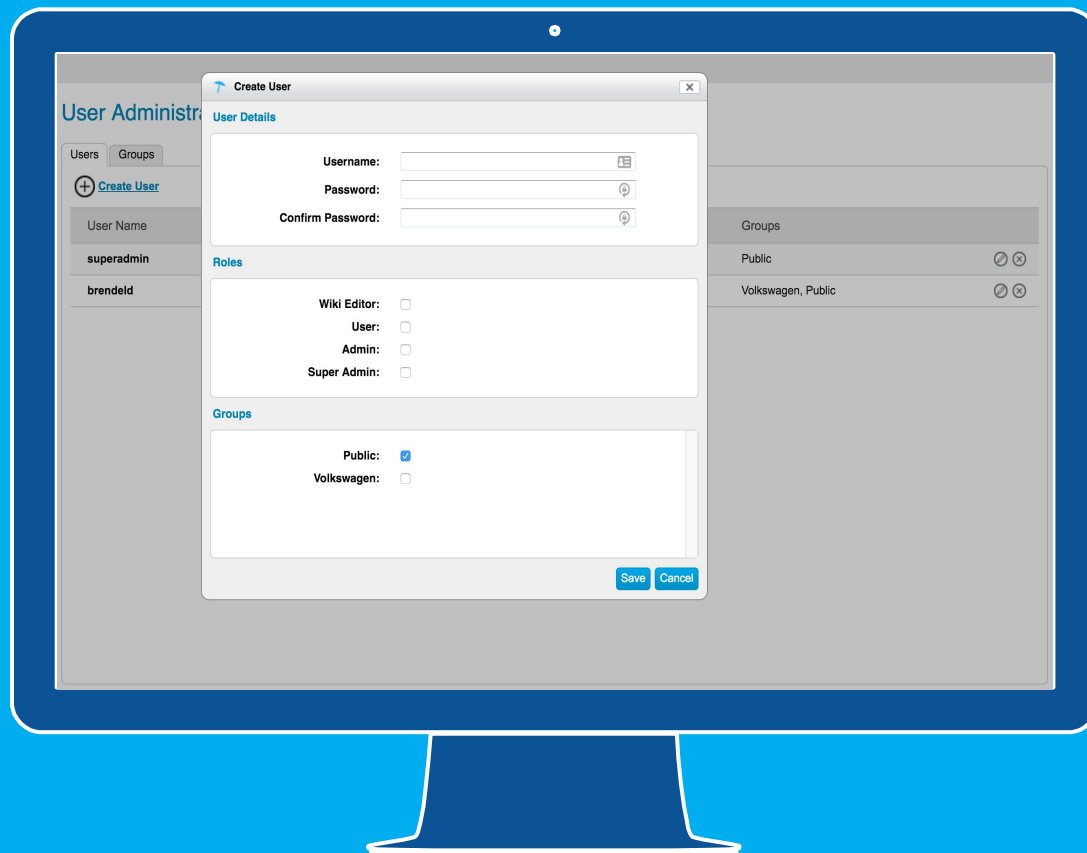
User Management & Roles

User Management is based on user accounts, roles, and groups.

User authentication can be integrated with LDAP.

PoolParty's security layer is based on Spring Security.

PoolParty's API is fully integrated with the security layer.



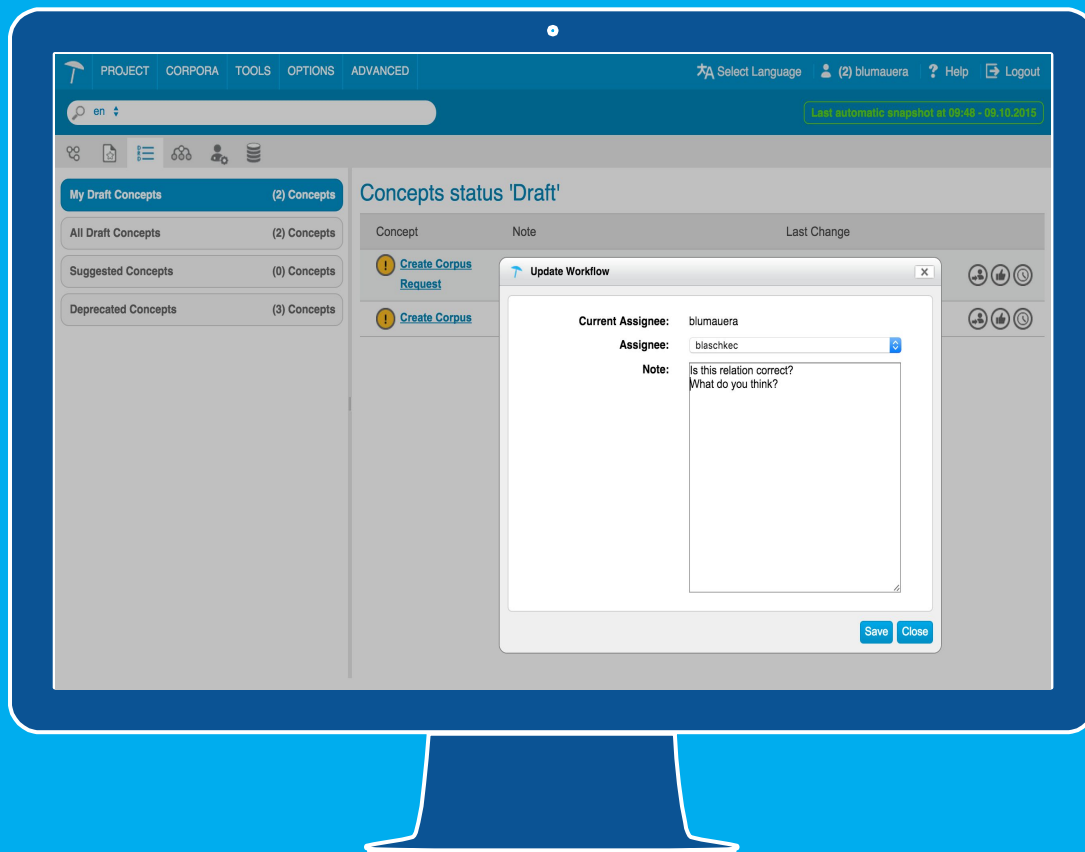
7

Workflows

Approval (or rejection) of changes on a thesaurus can be governed by workflows.

Several roles in the PoolParty system have different rights to apply changes, reject or approve those.

A clearly structured dashboard helps taxonomists not to lose track of all the tasks that need to be performed.

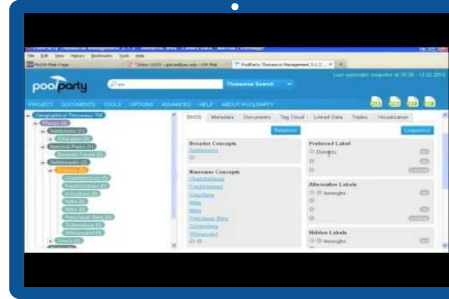


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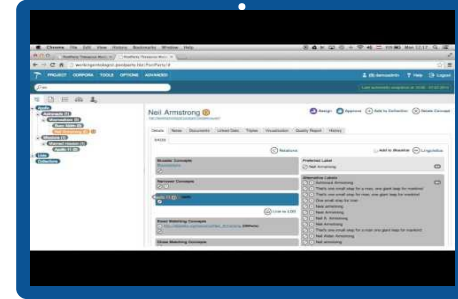
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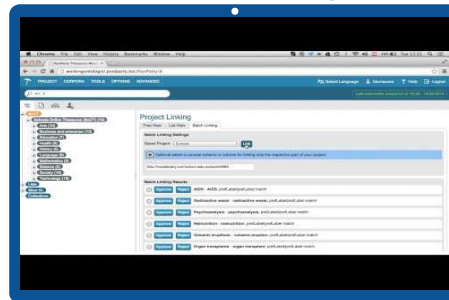
Managing Concepts



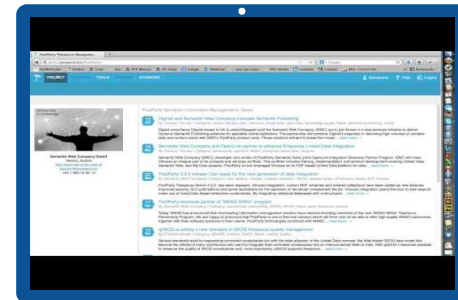
History & Audit Trails



Batch Linking



Import Excel



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ADVANCED FEATURES

Efficient taxonomy management and
text mining based on PoolParty

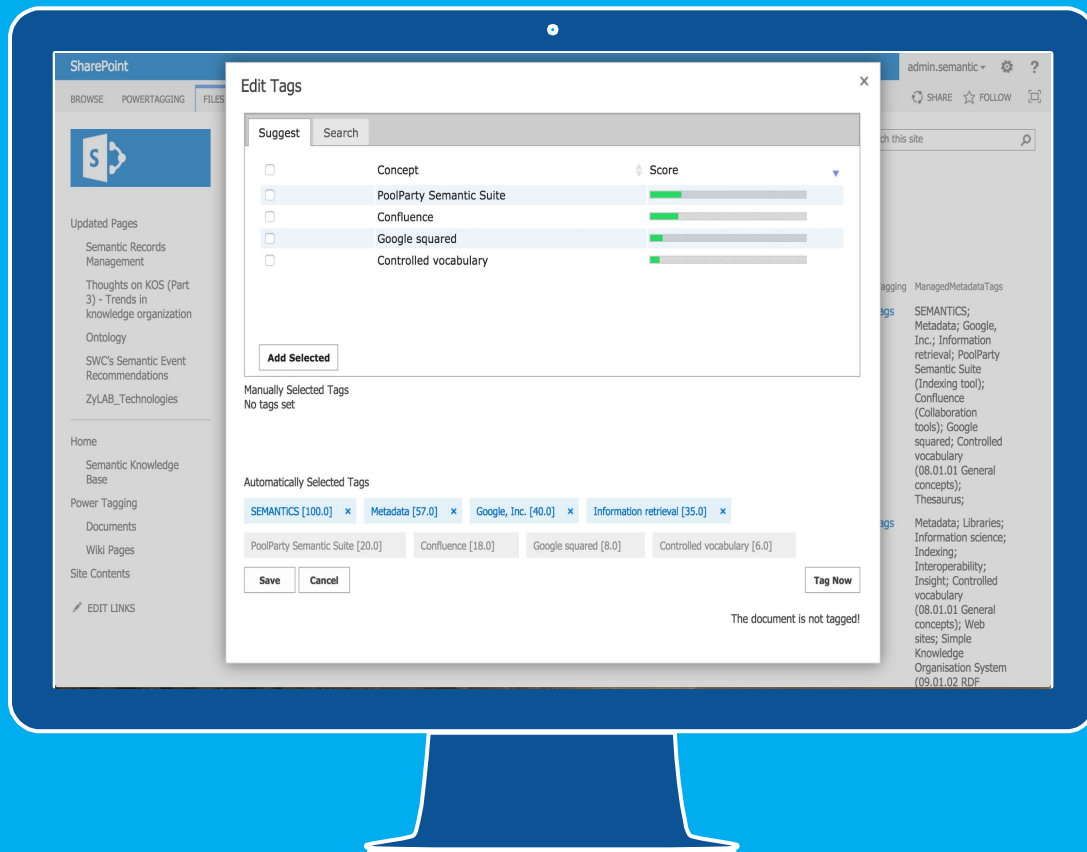
10

Entity Extraction

PoolParty's API provides a rich set of methods for text mining and entity extraction.

This ultra-fast service makes use of your controlled vocabularies, therefore it is highly accurate for your specific domain.

The service will improve over time and learns from reference text corpora. It supports over 40 languages and comes with a powerful disambiguation algorithm.



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Custom Schemes & Ontologies

SKOS is based on a simple schema. This can be expanded by additional custom schemes.

Custom schemes can be created with help of PoolParty's ontology & schema editor.

For an increased interoperability, PoolParty provides a rich set of preconfigured ontologies like schema.org or FOAF.

The screenshot displays the PoolParty ontology editor interface. The main window shows the 'Cocktail ontology' with a navigation menu (PROJECT, CORPORA, TOOLS, OPTIONS, ADVANCED) and user information (blumauera). A sidebar on the left lists various ontologies with their class, relation, and attribute counts. The 'Cocktail ontology' is selected, showing 7 classes, 7 relations, and 6 attributes. The main area displays the 'Add Relation' dialog box, which is currently configuring a 'used by' relation between 'Drinkware' and 'Cocktail'. The relation is set to 'Directed' and 'Single'. The URL for the relation is 'http://vocabulary.semantic-web.at/cocktail-ontology/used-by'. Below the dialog box, a table of existing relations is visible:

Drinkware	is used by	Cocktail	Inverse of uses Drinkware	<input type="checkbox"/>	<input type="button" value="X"/>
Cocktail	is variant of	Cocktail	directed	<input type="checkbox"/>	<input type="button" value="X"/>
Cocktail	uses Drinkware	Drinkware	Inverse of is used by	<input type="checkbox"/>	<input type="button" value="X"/>
Cocktail	uses Garnish	Garnish	Inverse of is used by	<input type="checkbox"/>	<input type="button" value="X"/>

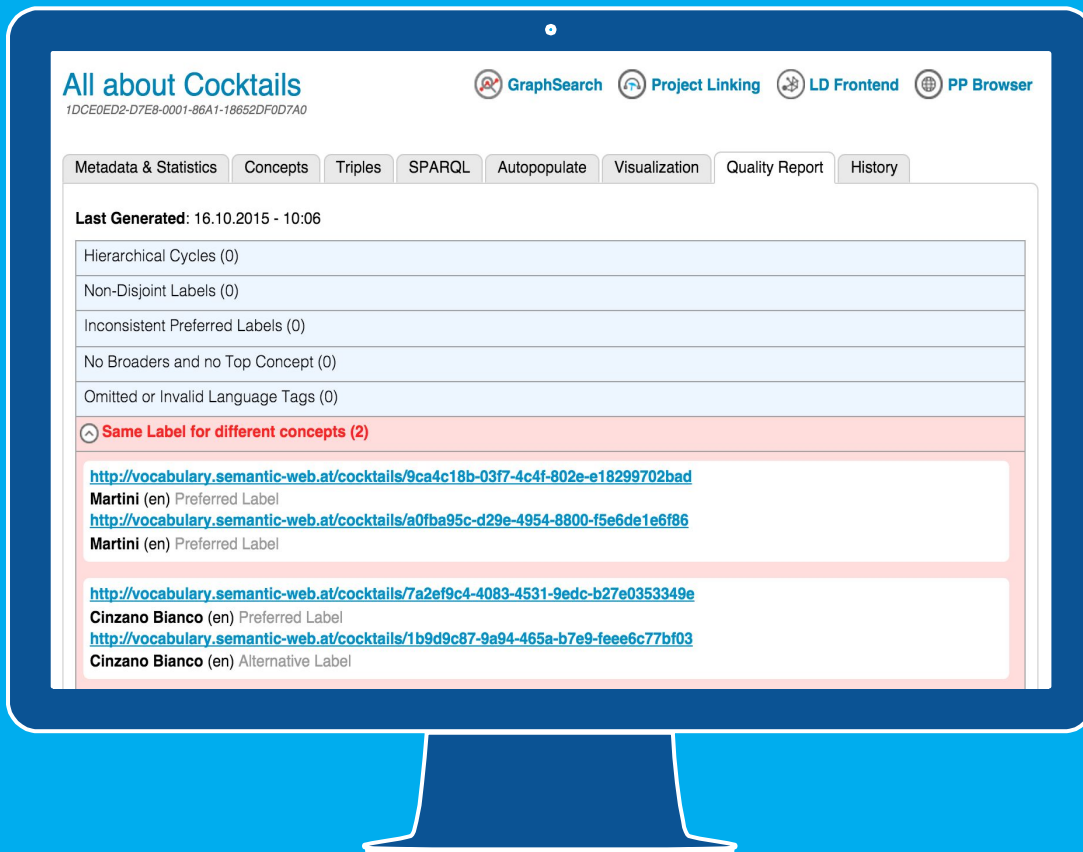
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Quality Management

Data quality and especially the quality of metadata is key to a more efficient information management.

PoolParty Server provides several built-in quality checks (e. g. to avoid circularities).

Checks can be executed at run-time or at any time to generate a quality report.



The screenshot displays the 'All about Cocktails' web application interface. The page title is 'All about Cocktails' with the identifier '1DCE0ED2-D7EB-0001-86A1-18652DF0D7A0'. The navigation bar includes 'GraphSearch', 'Project Linking', 'LD Frontend', and 'PP Browser'. The main content area shows a 'Quality Report' tab selected, with a 'Last Generated' timestamp of '16.10.2015 - 10:06'. The report lists several quality checks, all with zero counts: Hierarchical Cycles (0), Non-Disjoint Labels (0), Inconsistent Preferred Labels (0), No Broaders and no Top Concept (0), and Omitted or Invalid Language Tags (0). A red warning section titled 'Same Label for different concepts (2)' is highlighted, showing two instances of the label 'Martini (en) Preferred Label' and 'Cinzano Bianco (en) Preferred Label' associated with different URIs. The first instance shows a preferred label 'Martini (en)' for a specific URI, and the second instance shows an alternative label 'Cinzano Bianco (en)' for a different URI.

All about Cocktails
1DCE0ED2-D7EB-0001-86A1-18652DF0D7A0

GraphSearch Project Linking LD Frontend PP Browser

Metadata & Statistics Concepts Triples SPARQL Autopopulate Visualization **Quality Report** History

Last Generated: 16.10.2015 - 10:06

Hierarchical Cycles (0)
Non-Disjoint Labels (0)
Inconsistent Preferred Labels (0)
No Broaders and no Top Concept (0)
Omitted or Invalid Language Tags (0)

Same Label for different concepts (2)

<http://vocabulary.semantic-web.at/cocktails/9ca4c18b-03f7-4c4f-802e-e18299702bad>
Martini (en) Preferred Label
<http://vocabulary.semantic-web.at/cocktails/a0fba95c-d29e-4954-8800-f5e6de1e6f86>
Martini (en) Preferred Label

<http://vocabulary.semantic-web.at/cocktails/7a2ef9c4-4083-4531-9edc-b27e0353349e>
Cinzano Bianco (en) Preferred Label
<http://vocabulary.semantic-web.at/cocktails/1b9d9c87-9a94-465a-b7e9-fee6c77bf03>
Cinzano Bianco (en) Alternative Label

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Corpus Analysis

PoolParty can automatically analyze reference text corpora.

The calculation of a statistical model of a 'typical vocabulary' of a specific domain helps to suggest candidate concepts for the expansion of a taxonomy.

By this means, the quality of term extraction improves over time and potential relations between concepts and terms can be suggested by the system.

The screenshot shows the PoolParty interface with the following elements:

- Navigation Pane (Left):** A tree view under 'Corpora' showing 'healthstream.com', 'PDFs', 'Candidate Terms', 'Extracted Concepts', 'Extracted Terms', and 'Blacklist'.
- Document View (Center):** A text document titled '18_Disaster_MIN0607'. The text discusses stress symptoms after the September 11 attacks and the importance of psychological support and community resources. Key terms like 'Disasters', 'Emergency', 'Family', and 'Health Resources' are highlighted in yellow.
- Concept Schemes (Top):** A row of tabs including 'Disciplines and Occupations', 'Diseases', 'Health Care', 'Named Groups', 'Phenomena and Processes', and 'Psychiatry and Psychology'.
- Candidate Terms List (Bottom):** A list of suggested terms with counts and star ratings, such as 'disaster plan (23)', 'Disaster Planning', 'disaster plans (37)', 'Disasters', 'Emergencies', 'Family', 'Health Resources', 'Health Services Needs and Demand', 'Hospitals', 'hurricane katrina (20)', 'integral role in planning (30)', 'it's important (25)', 'joint commission (24)', 'large-scale devastation (26)', 'media's ubiquitous presence denies (16)', 'Men', 'Nurses', 'Nursing', 'nursing | June (20)', 'Persons', 'plan (18)', 'planning (20)', 'plans (15)', 'play an integral (19)', 'Residence Characteristics', 'response (16)', 'Role', 'stress disorder (25)', 'Volition', and 'Wounds and Injuries'.
- Buttons:** 'Highlight Concepts', 'Show Concepts', 'Extracted Terms List', and 'Candidate Terms List' are visible.

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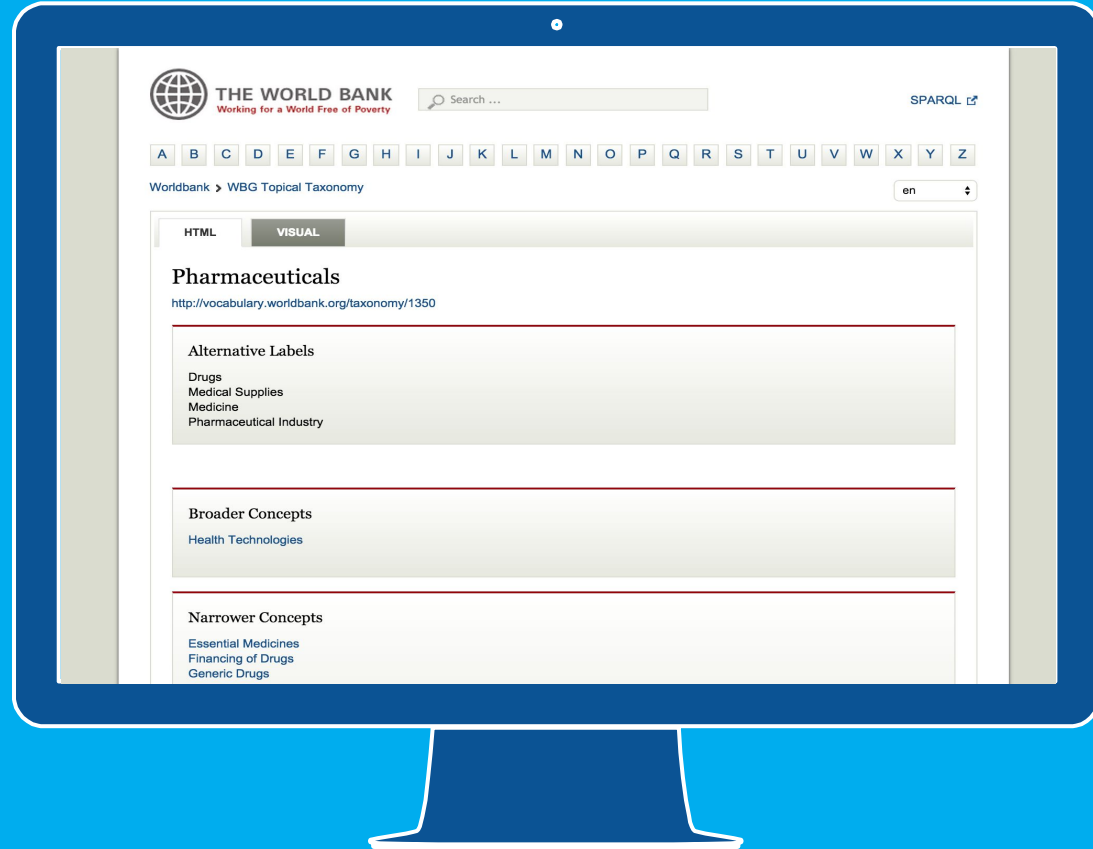
Linked Data

The use of Linked Data standards increases interoperability of your knowledge graphs & metadata.

With PoolParty, each thesaurus and ontology can be provided as a Linked Data graph.

In return, every linked data source can potentially be used to enrich a thesaurus.

PoolParty supports scenarios like 'Enterprise Linked Data' as well as 'Linked Open Data'.



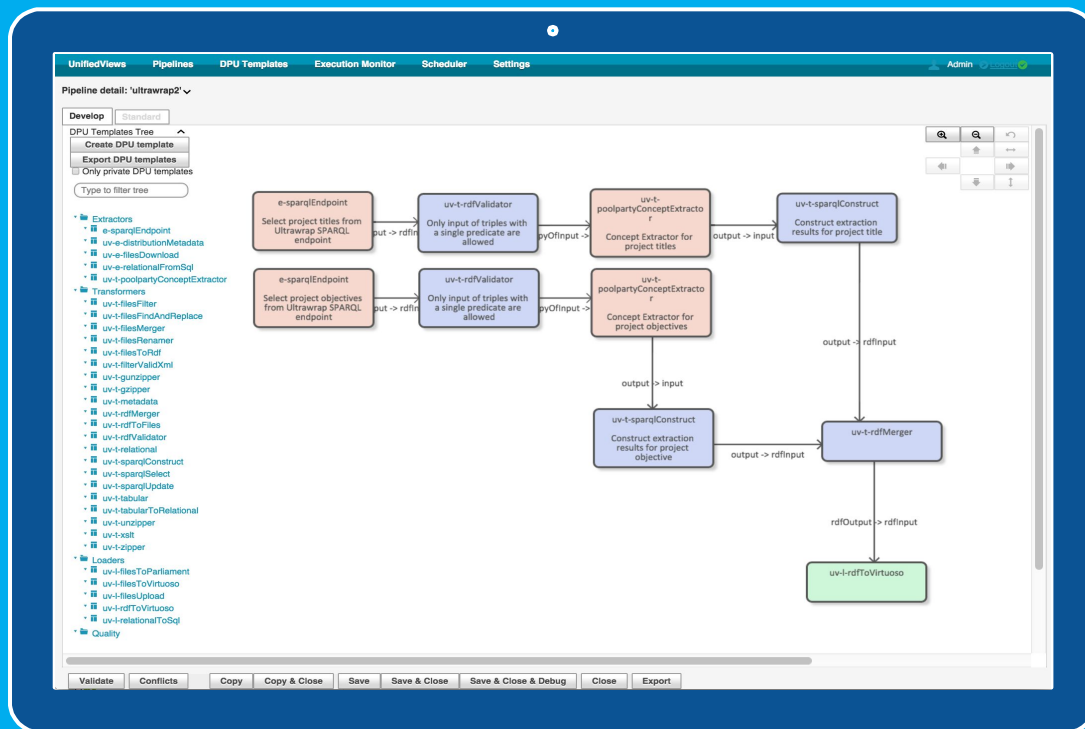
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RDF based ETL

Data processing tasks can be modelled as pipelines: Make use of the intuitively usable graphical interface.

Versatile data integration platform: Link data from internal and external data sources in a central NoSQL linked data warehouse.

Custom plugins: Your data processing pipelines are highly customizable by creating your own data processing units (DPUs).



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GraphSearch

Semantic search at the highest level: PoolParty Graph Search Server combines the power of graph databases and SPARQL engines with features of ‘traditional’ search engines.

Document search and visual analytics: Benefit from additional insights through interactive visualizations of reports and search results derived from your data lake by executing sophisticated SPARQL queries.

The screenshot displays the 'BI Publication Tracker' interface. On the left, there are search filters for 'BI Location', 'BI-Author', 'Country', and 'Journal'. The 'Country' filter is expanded, showing a list of countries with corresponding counts. The main area features a pie chart titled 'Locations' with six segments, each linked to an empty text box. Below the chart, there is a search bar and a 'Total: 2827' indicator. The interface also includes a 'Full Text' button and a 'BI' icon.

Country

Germany	110
United States of America	60
United Kingdom	59
Canada	59
Austria	58
France	58
Japan	42
Spain	
Italy	
Netherlands	

Journal

Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research	110
The European respiratory journal	60
Circulation	59
Diabetologia	59
Pfick one	58
Blood	42

Locations

2-year efficacy and safety of linagliptin compared with glimepiride in patients with type 2 diabetes inadequately controlled on metformin: A randomised, double-blind, non-inferiority trial.

BI Author(s):
Non-BI Author(s): Gallwitz B, Rosenstock J
Source: The Lancet. 380 (9840) (pp 475-483), 2012. Date of Publication: August 2012.
Date of Publication: 2012-08-01

Background Addition of a sulphonylurea to metformin improves glycaemic control in type 2 diabetes, but is associated with hypoglycaemia and weight gain. We aimed to compare a dipeptidyl peptidase-4 inhibitor (linagliptin) against a commonly used sulphonylurea (glimepiride). Methods In this 2-year, parallel-group, non-inferiority double-blind trial, outpatients with type 2 diabetes and glycated haemoglobin A1c (HbA1c) 65-100% on stable metformin alone or with one additional oral antidiabetic drug (washed out during screening) were randomly assigned (1:1) by computer-generated random sequence [vi more](#)

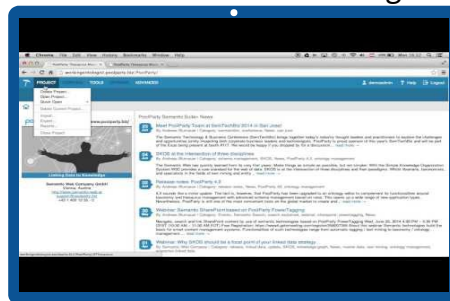
2013 White Paper on recent issues in bioanalysis: 'Hybrid' - The best of LBA and LCMS.

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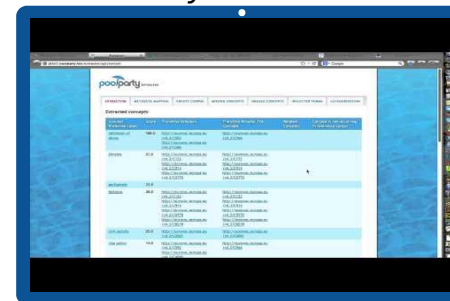
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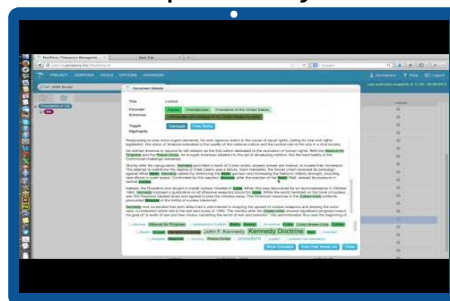
Custom Schemes & Ontologies



Entity Extraction



Corpus Analysis



Quality Management

