CLARIAH Shared Development Roadmap: Data Model

Data Model

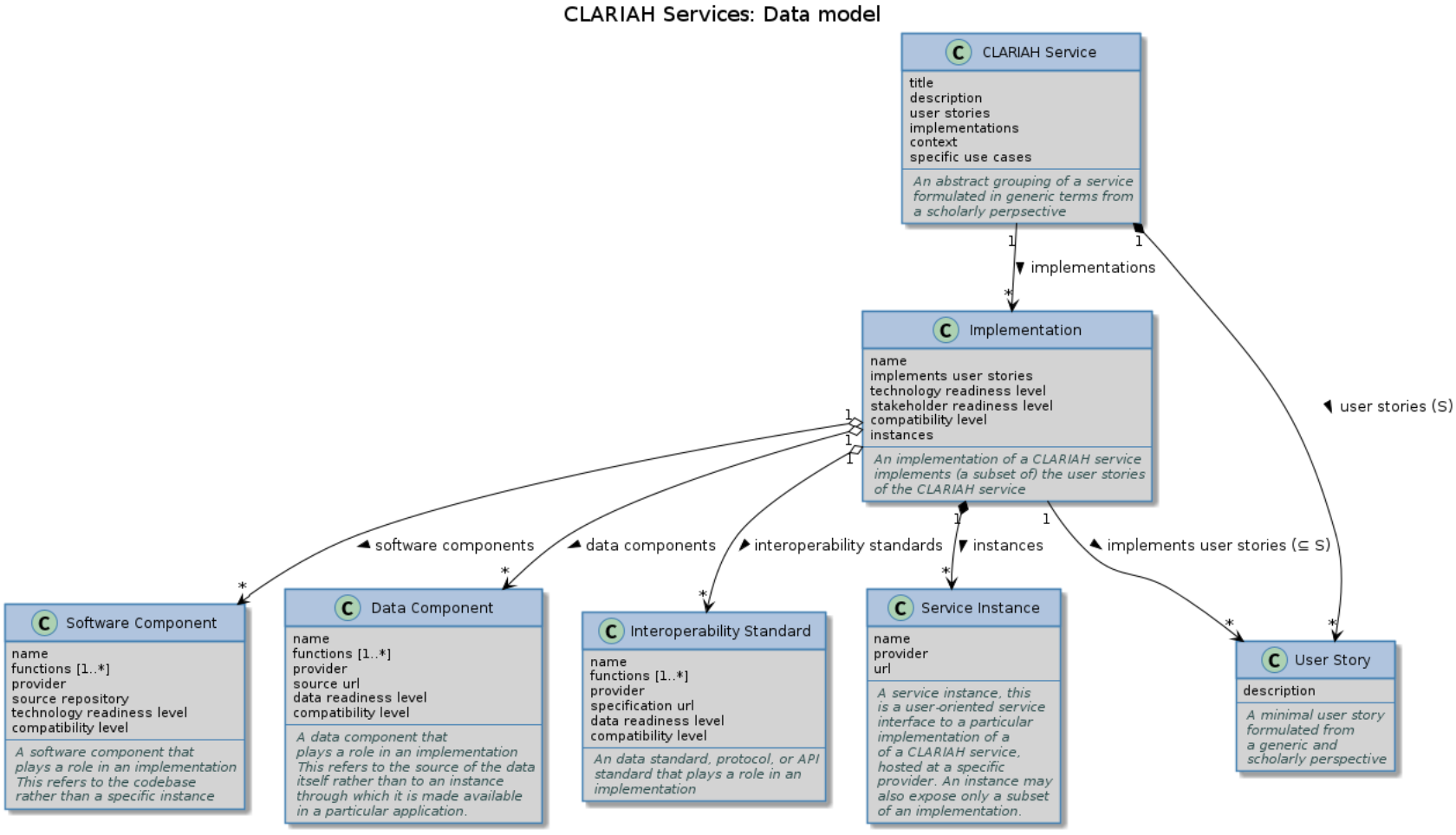

Figure 1: Data model overview

Template (1/3)

2.2.3 Corpus Search: Text & Annotation Search

(Maarten, WP3)

User story:
As a scholar, I want to perform complex searches in text collections/corpora and in the annotations on these collections **in order to** find patterns of specific (often linguistic) constructs for my research purpose. (2) **As a scholar**, I want to view aggregated results over my results sets, such as distributions, grouped results and statistics **in order to** be able to analyse my data and identify common trends (3) **As a scholar**, I want to provide my own text collections **in order to** have a platform that enables me to search in them. (4) **As a scholar,** I want to search in syntactically annotated corpora (treebanks) **in order to** find linguistic patterns for my research purpose. *[this is a more specific instance of the main user story]* (5) **As a scholar,** I want to automatically enrich my corpus with specific linguistic annotations **in order to** find linguistic patterns for my research purpose. (6) **As a scholar,** I want uniform and rich access to a large and diverse set of corpora

Template (2/3)

Implementations & Software Components

Implementation 1: INT (implements all three stories, might implement 4 in the future. Does not really implement 6)

Component	Function(s)	Instance @Provider
Blacklab (using Apache Lucene)	• Storage engine for text and annotations • Query & search engine • Indexer to process text corpora with annotations (in specific formats)	AutoSearch @INT OpenSoNaR @INT
Blacklab Server	• Web API	
Corpus-frontend	• A search front-end to formulate and execute queries • A results front-end to show matches in the corpus, complete with annotations • An upload front-end for users to add their own data	
Technology Readiness Level (TRL)	Stakeholder Readiness Level (SRL)	Compatibility Level
8?		

Template (2/3)

TICCL-tools	Low-level post-OCR normalisation tools that make up the TICCL workflow.	6		UvT
Blacklab	Backend for search over large text collections, including annotations	9		INT
Corpus frontend	Generic search frontend for blacklab	8?		INT
AutoSearch	Specific deployment of Corpus frontend for CLARIAH.	8?		INT
GrETEL	Search in syntactically annotated corpora (treebanks)	8?		UU
PaQu	Search in syntactically annotated corpora (treebanks),	8?		RUG
FLAT	Collaborative web-based linguistic annotation tool (document-based, using FoLiA)	8		KNAW-Huc & CLST RUN (hoster)

Figure 4: Stand-off components