Technische Universität München

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SocioCortex

A Social Information Hub

SC

Software Engineering für betriebliche Informationssysteme (sebis)
Fakultät für Informatik
Technische Universität München

wwwmatthes.in.tum.de

SocioCortex Eco-System

Overview

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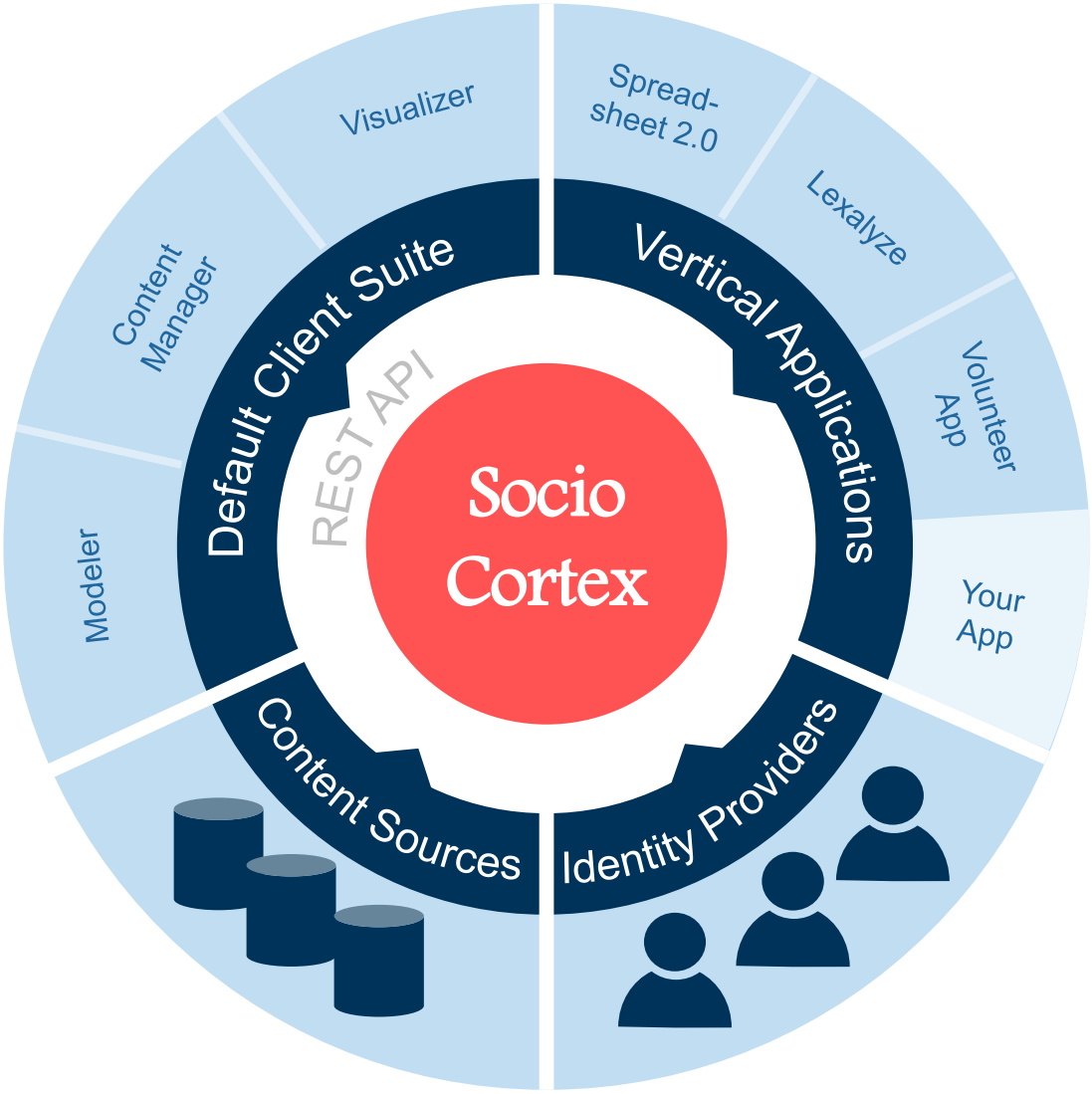

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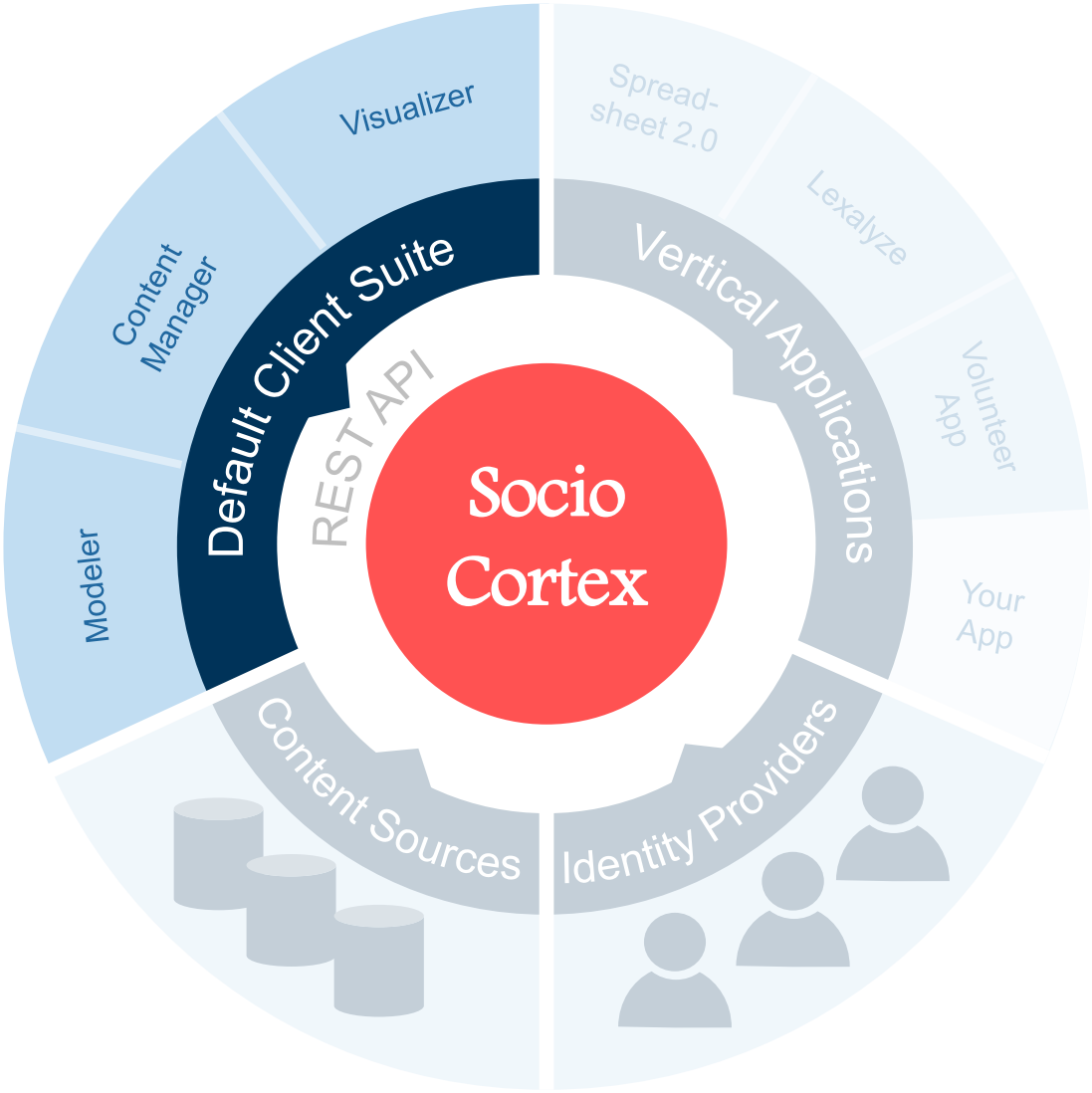
Overview



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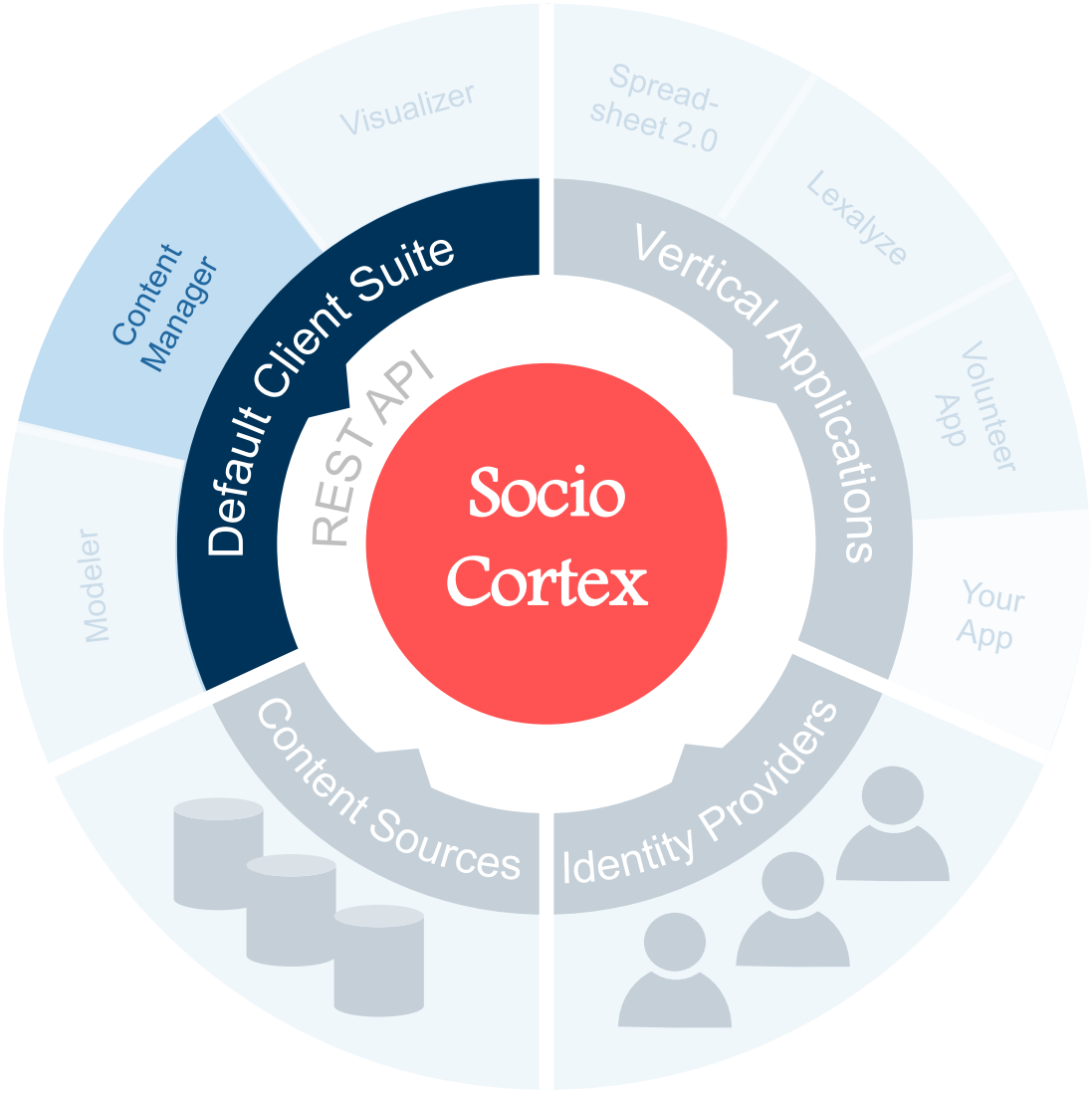
Overview



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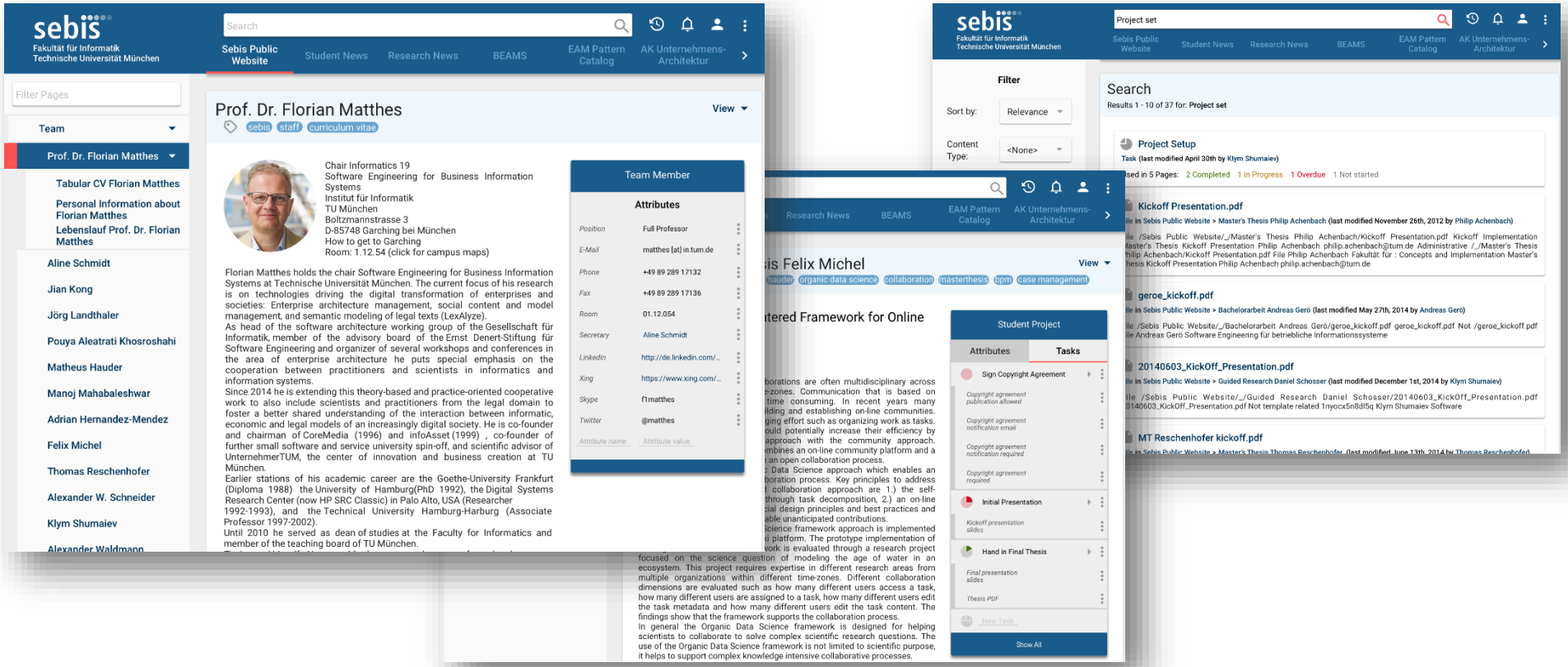
Usage

- ✓ Default web UI for **casual users**
  - ✓ **No** support for data modelling (outsourced to the SC Modeler)
- ✓ Can serve as a **template** for specific clients
- ✓ Navigating through the data model by **exploration** or **search**
- ✓ Support for knowledge-intensive processes through **data-centric tasks**



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Navigation Structure

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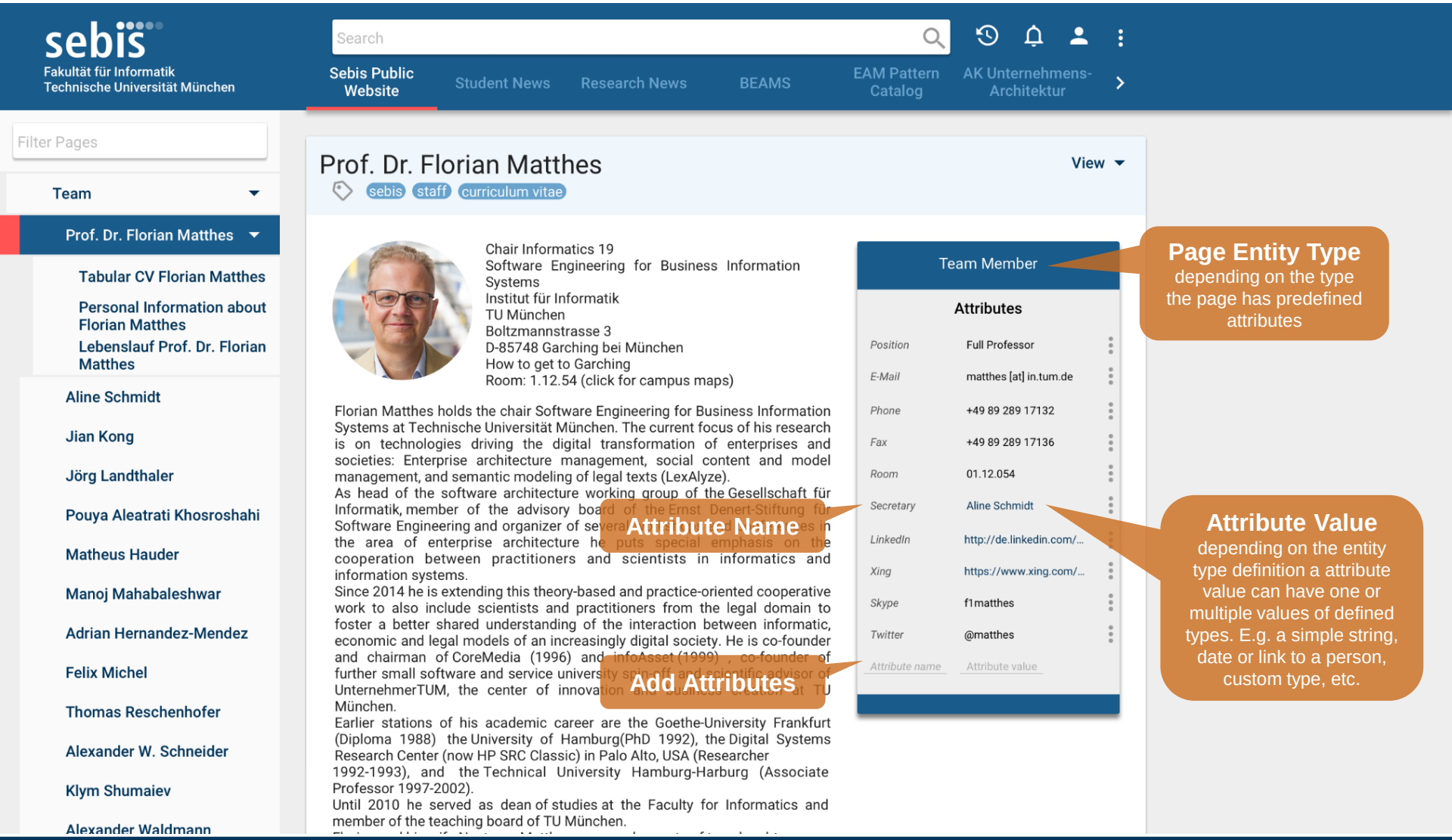
Page Attributes



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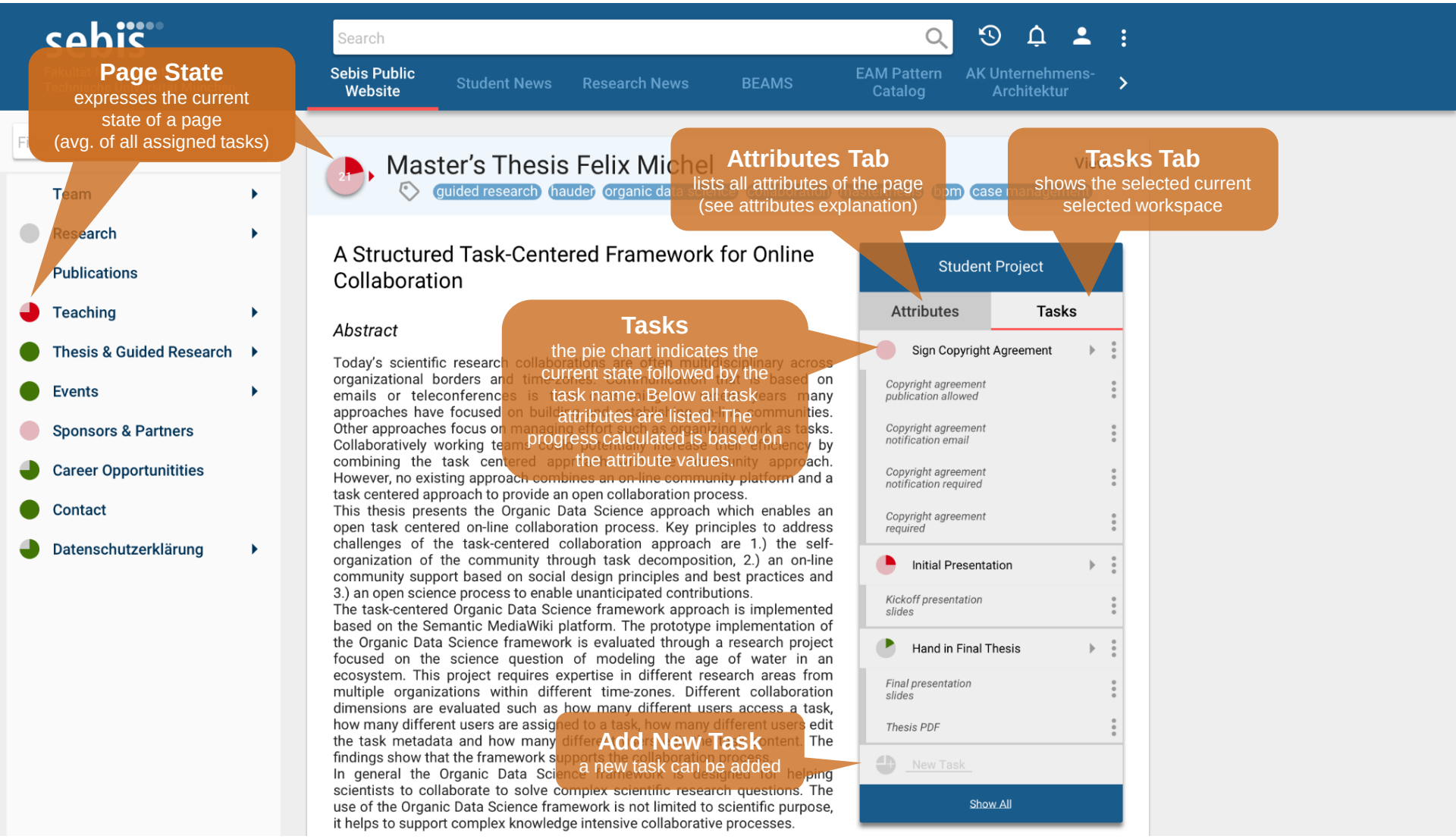
Tasks: Basics



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Tasks: Metadata

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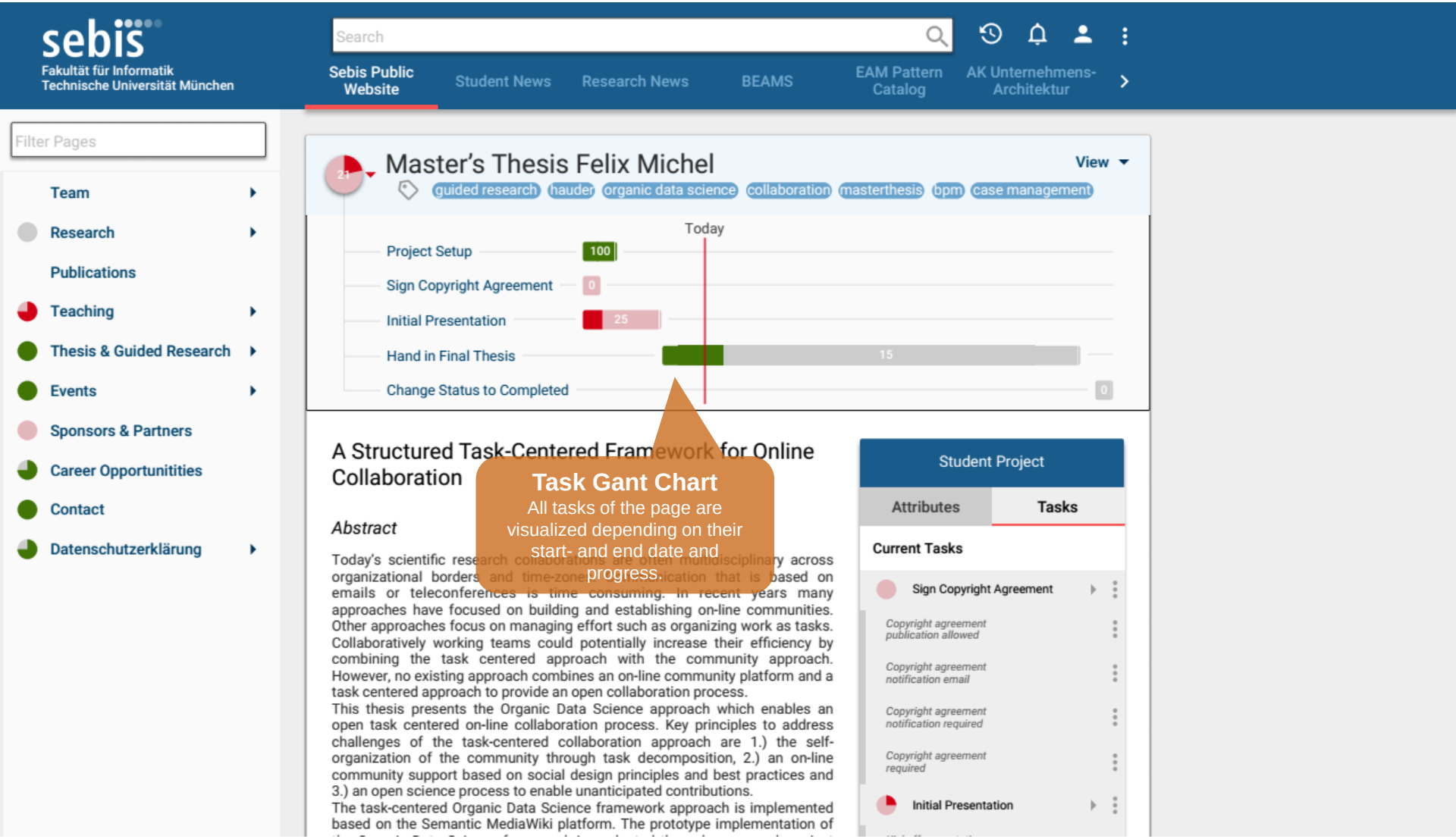
Tasks: Gant Chart



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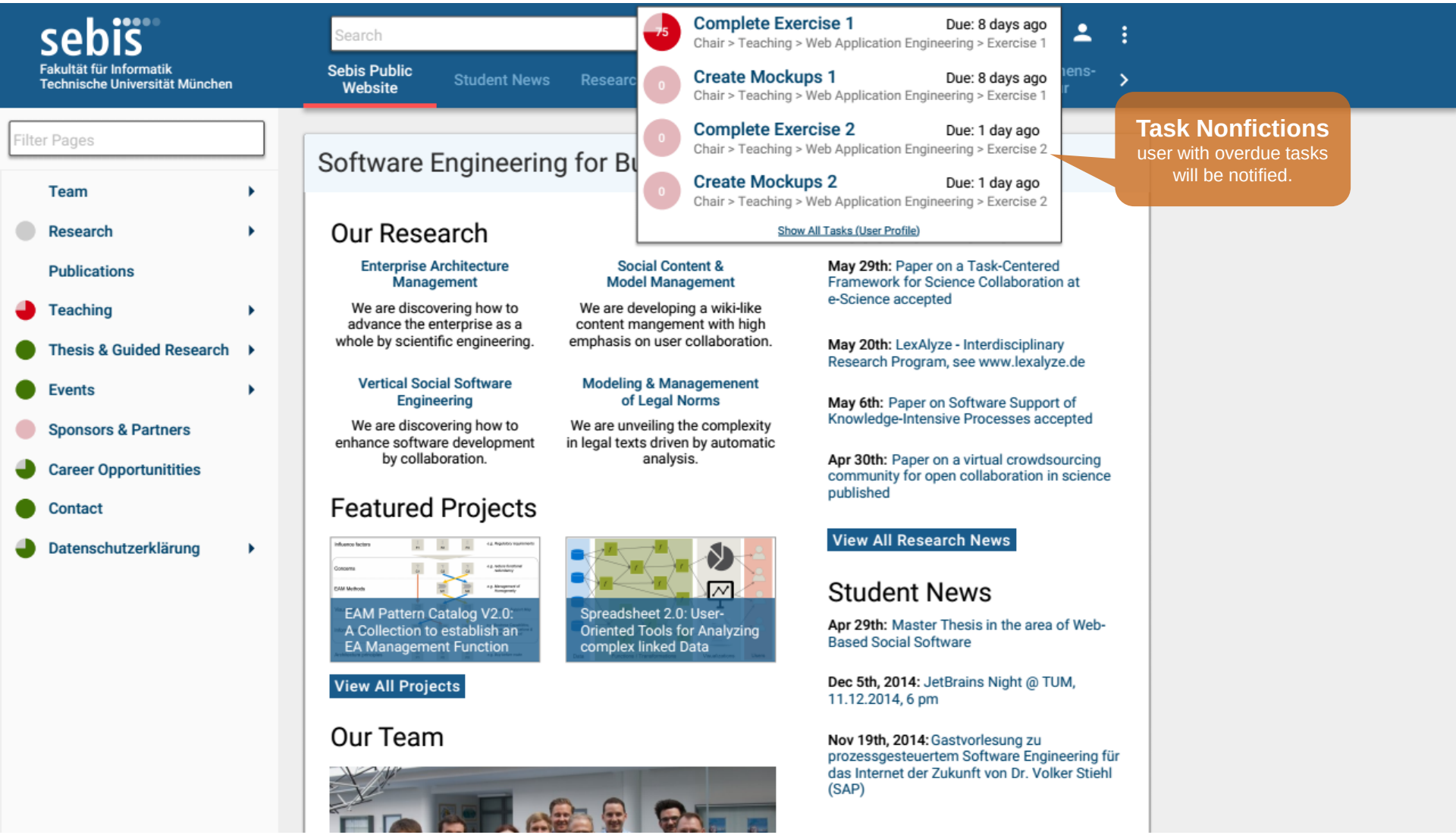
Tasks: Notifications



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User Profile

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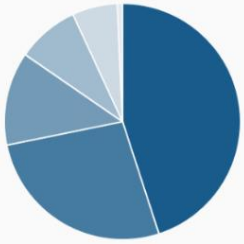
Fakultät für Informatik
Technische Universität München

Search

Sebis Public Website | Student News | Research News | BEAMS | EAM Pattern Catalog | AK Unternehmens-Architektur

Name: Florian Katenbrink
Email: f.katenbrink@gmail.com
Last Login: 1 minute ago

Expertise



- Collaboration: 45%
- Computer Science: 26.8%
- Software Engineering: 12.8%
- Literatur Research: 8.5%
- Soft Skills: 6.2%
- Others: 0.7%

User Expertise
a user earns expertise by accomplishing tasks. The expertise which is assigned to the task is than earned by the user

Florian Katenbrink

Username

Current Tasks

75 **Complete Exercise 1** — Due: 3 days ago
Chair > Teaching > Global Software Engineering > Exercise 1

0 **Create four mockups for the use cases** — Due: in 10 days
Chair > Teaching > Web Application Engineering > Project 3

0 **Complete Exercise 2** — Due: in 10 days
Chair > Teaching > Global Software Engineering > Exercise 2

Current Tasks
tasks which are not completed yet

Future Tasks

0 **Develop the SSSP Algorithm** — Starts: in 5 days
Chair > Teaching > Algorithms 1 > Exercise 1

Future Tasks
tasks which are defined for the future

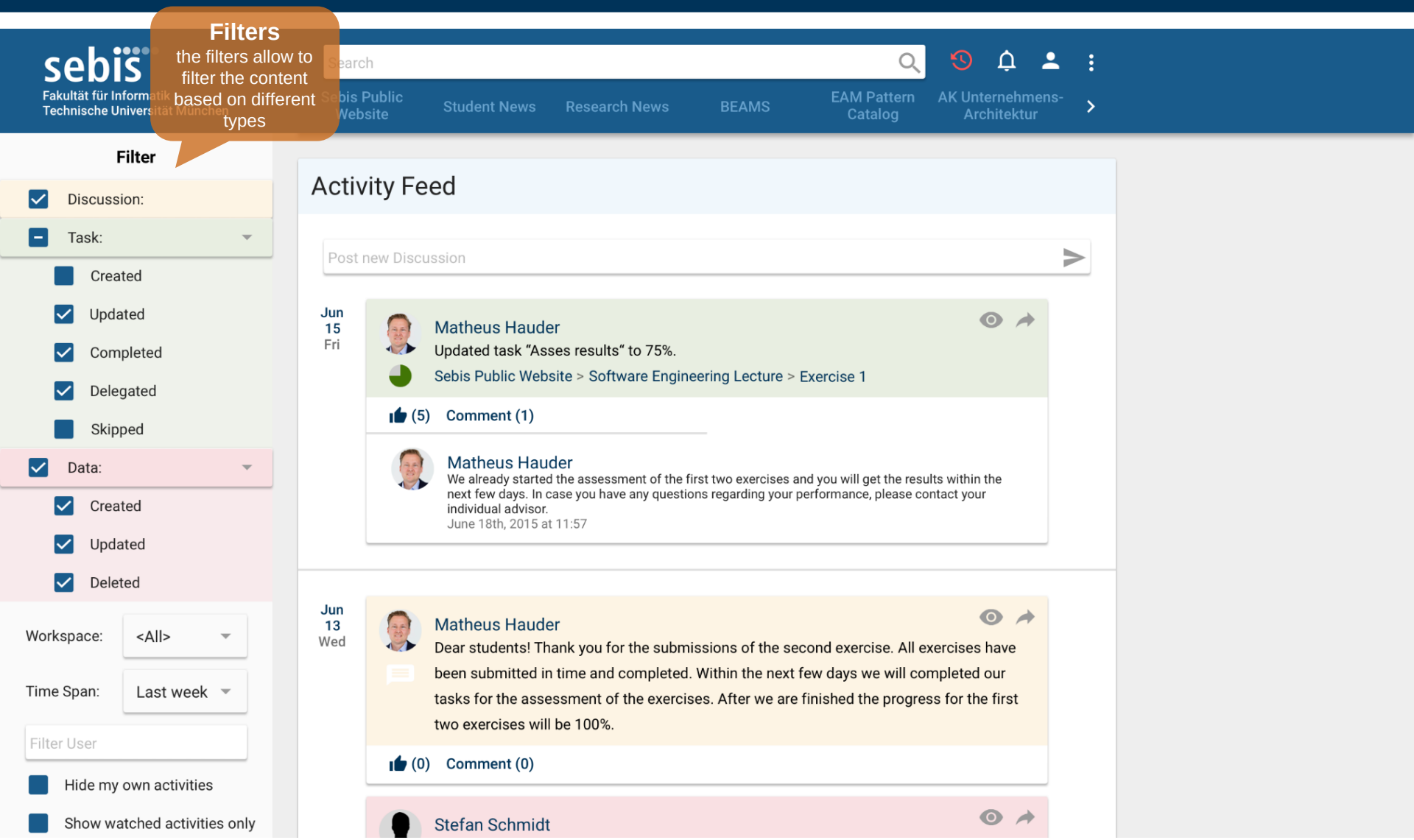
Completed Tasks

100 **Create two use-case diagrams** — Completed: 5 days ago
Chair > Teaching > Web Application Engineering > Project 2

100 **Complete Hello World Exercise** — Completed: 7 days ago
Chair > Teaching > Web Application Engineering > Project 1

Completed Tasks
tasks that have been completed in the past

Feed


Filters
the filters allow to filter the content based on different types
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Fakultät für Informatik
Technische Universität München
Search
Sebis Public Website
Student News
Research News
BEAMS
EAM Pattern Catalog
AK Unternehmens-Architektur
Filter
Discussion:
Task:
Created
Updated
Completed
Delegated
Skipped
Data:
Created
Updated
Deleted
Workspace:
<All>
Time Span:
Last week
Filter User
Hide my own activities
Show watched activities only
Activity Feed
Post new Discussion
Jun 15 Fri
Matheus Hauder
Updated task "Asses results" to 75%.
Sebis Public Website > Software Engineering Lecture > Exercise 1
(5) Comment (1)
Matheus Hauder
We already started the assessment of the first two exercises and you will get the results within the next few days. In case you have any questions regarding your performance, please contact your individual advisor.
June 18th, 2015 at 11:57
Jun 13 Wed
Matheus Hauder
Dear students! Thank you for the submissions of the second exercise. All exercises have been submitted in time and completed. Within the next few days we will completed our tasks for the assessment of the exercises. After we are finished the progress for the first two exercises will be 100%.
(0) Comment (0)
Stefan Schmidt

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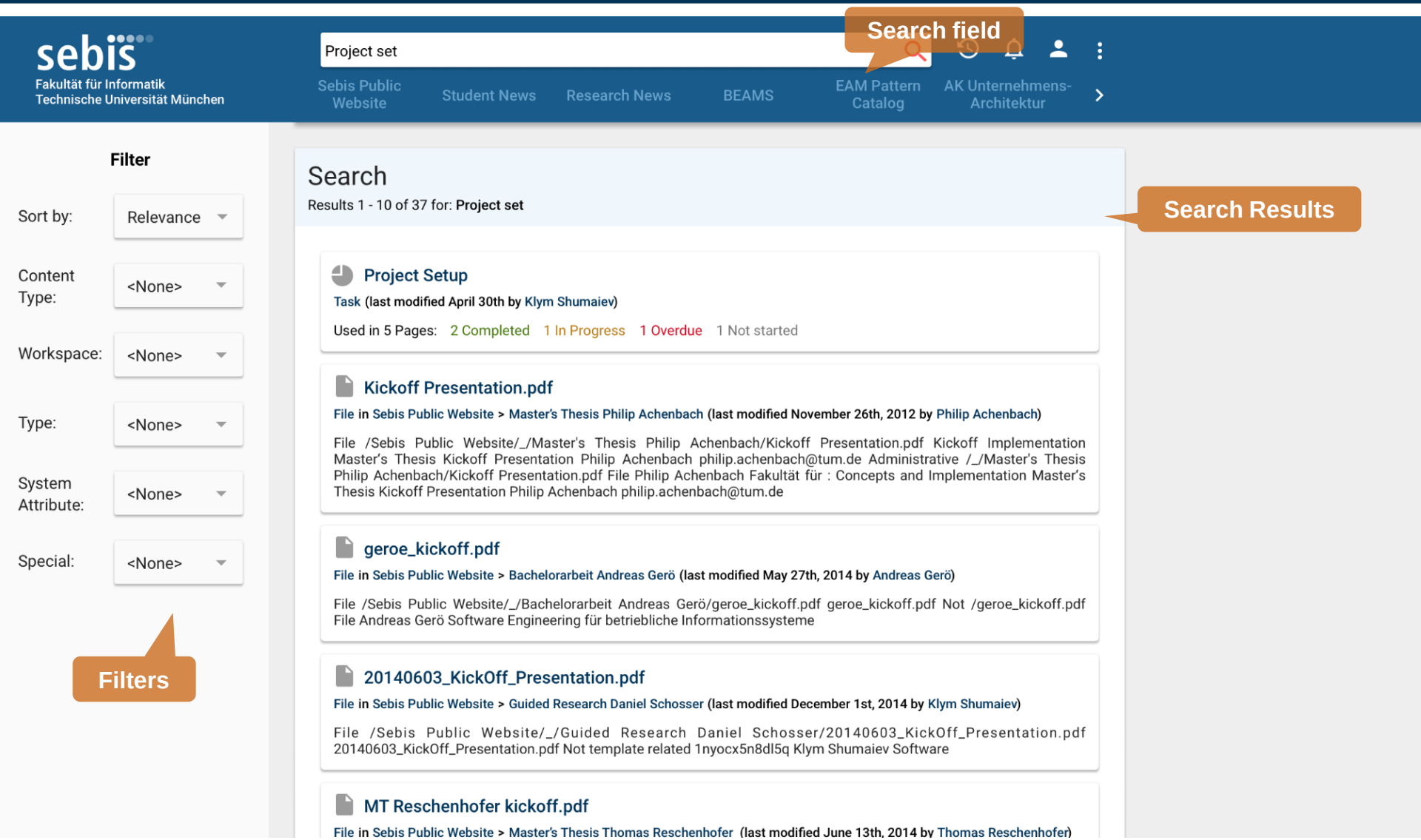
Search



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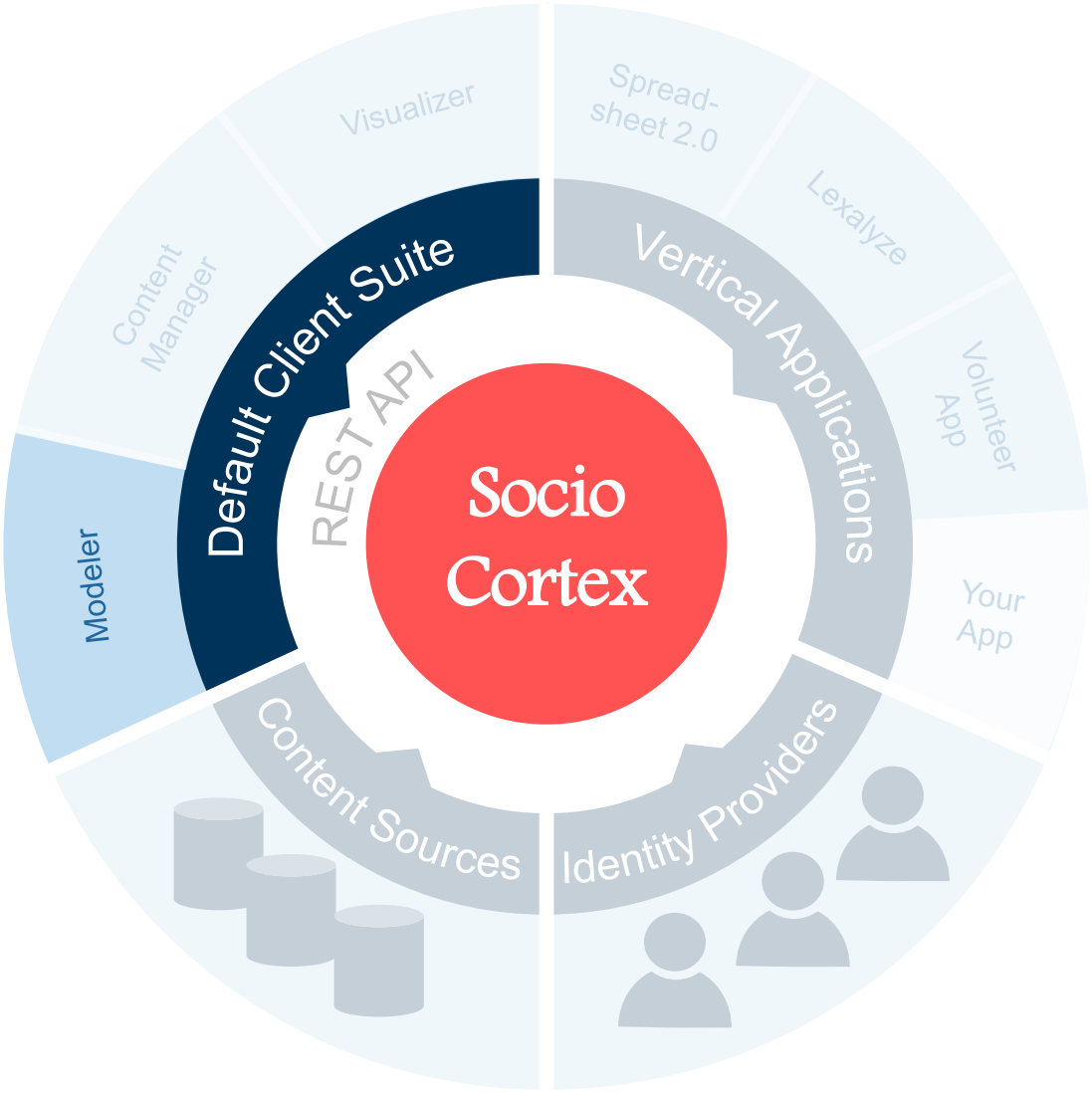
Overview



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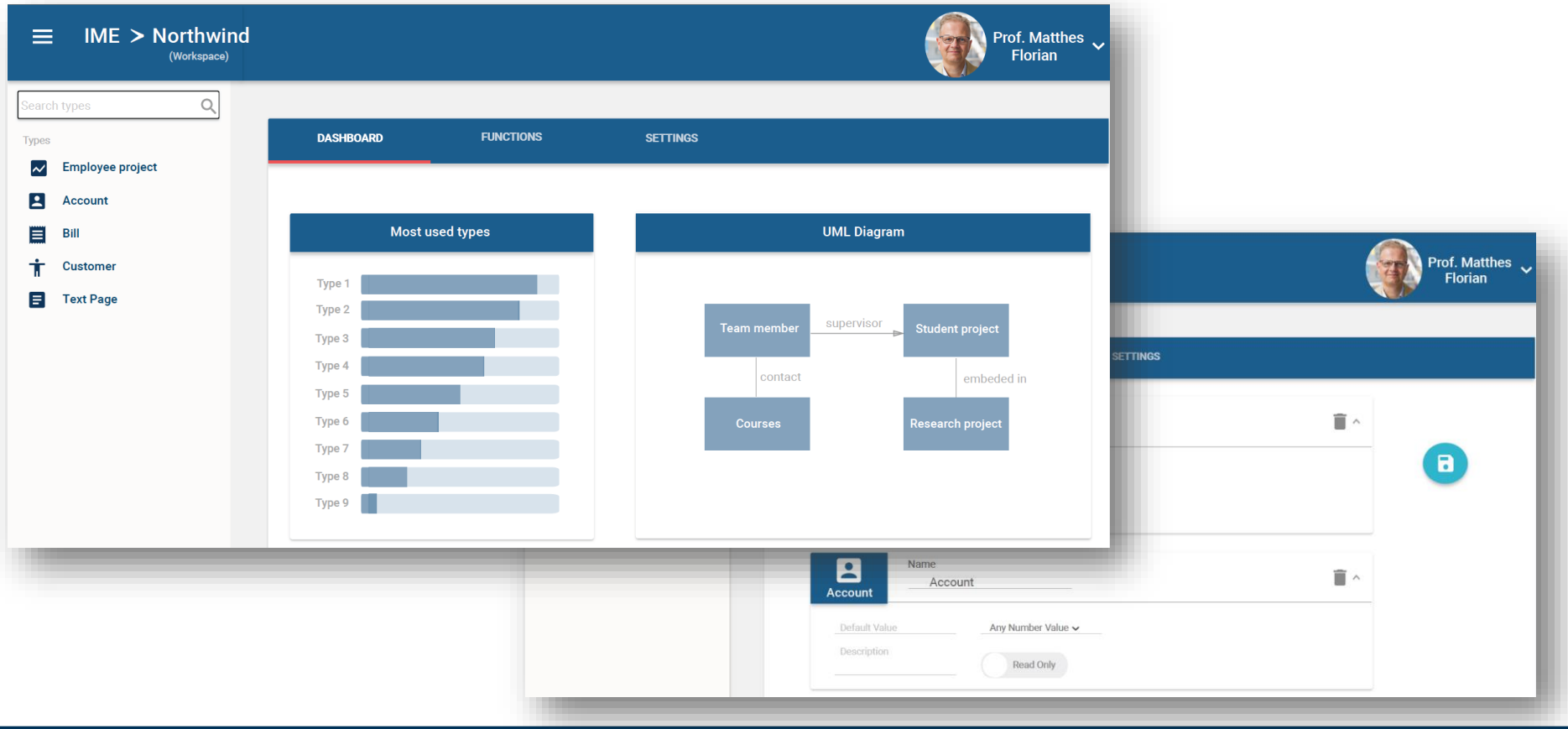
- Web UI for **designing** the data, process, and functional **model**
  - Definition of entity types, attribute definitions, task definitions, functions, etc.
  - Support for data and model consolidation



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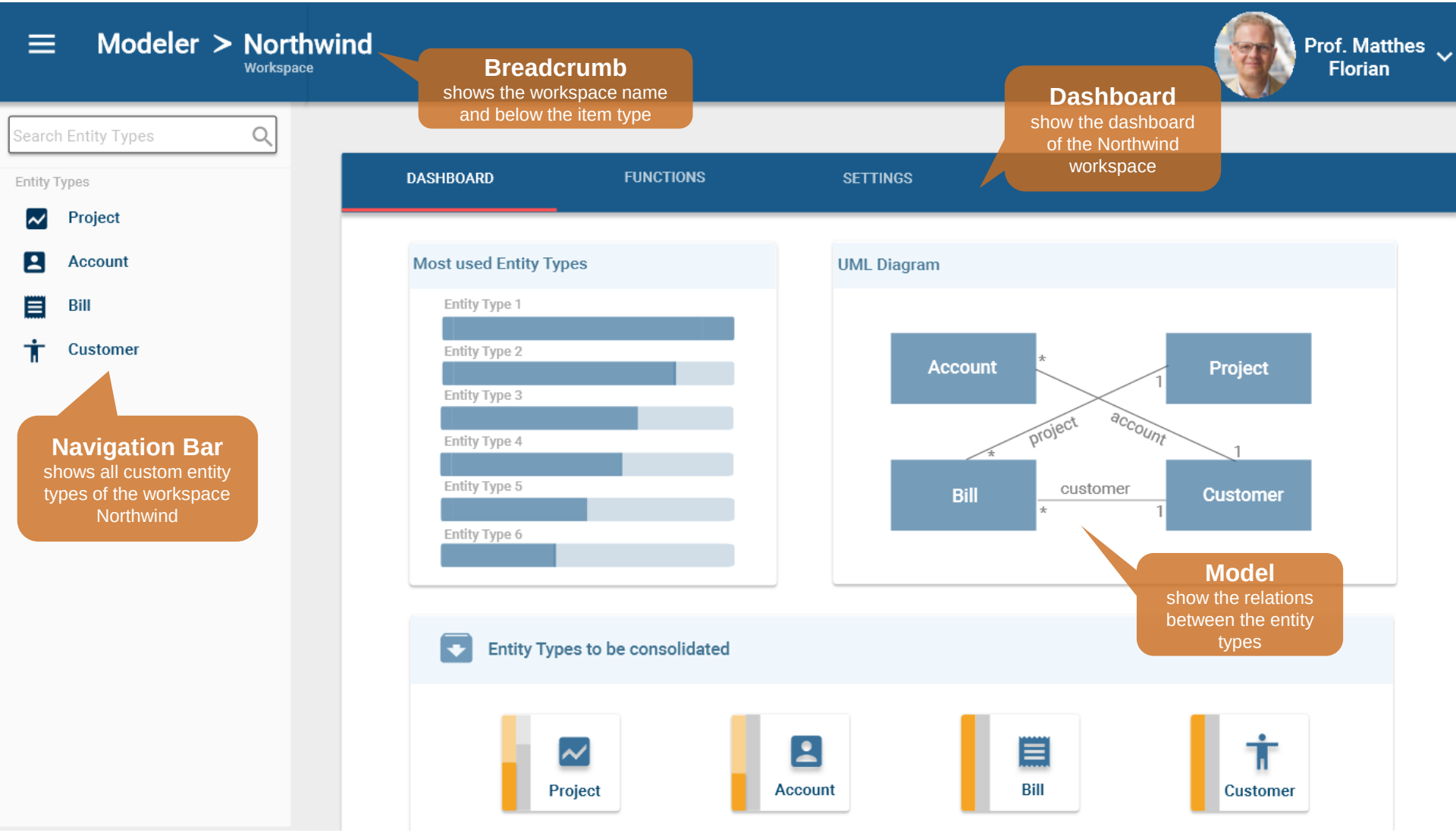
Welcome Page

Workspace: Northwind Workspace Dashboard



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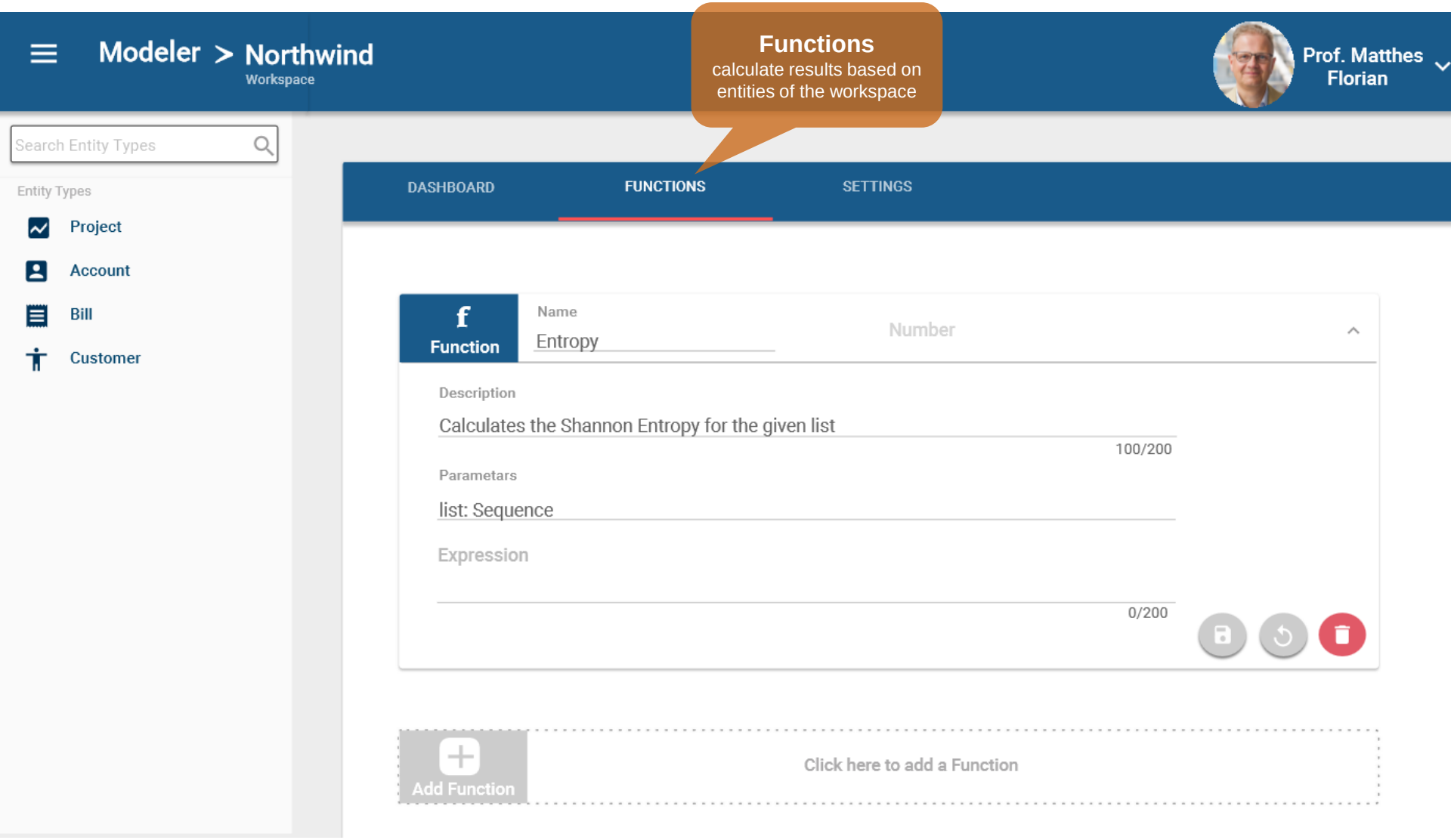
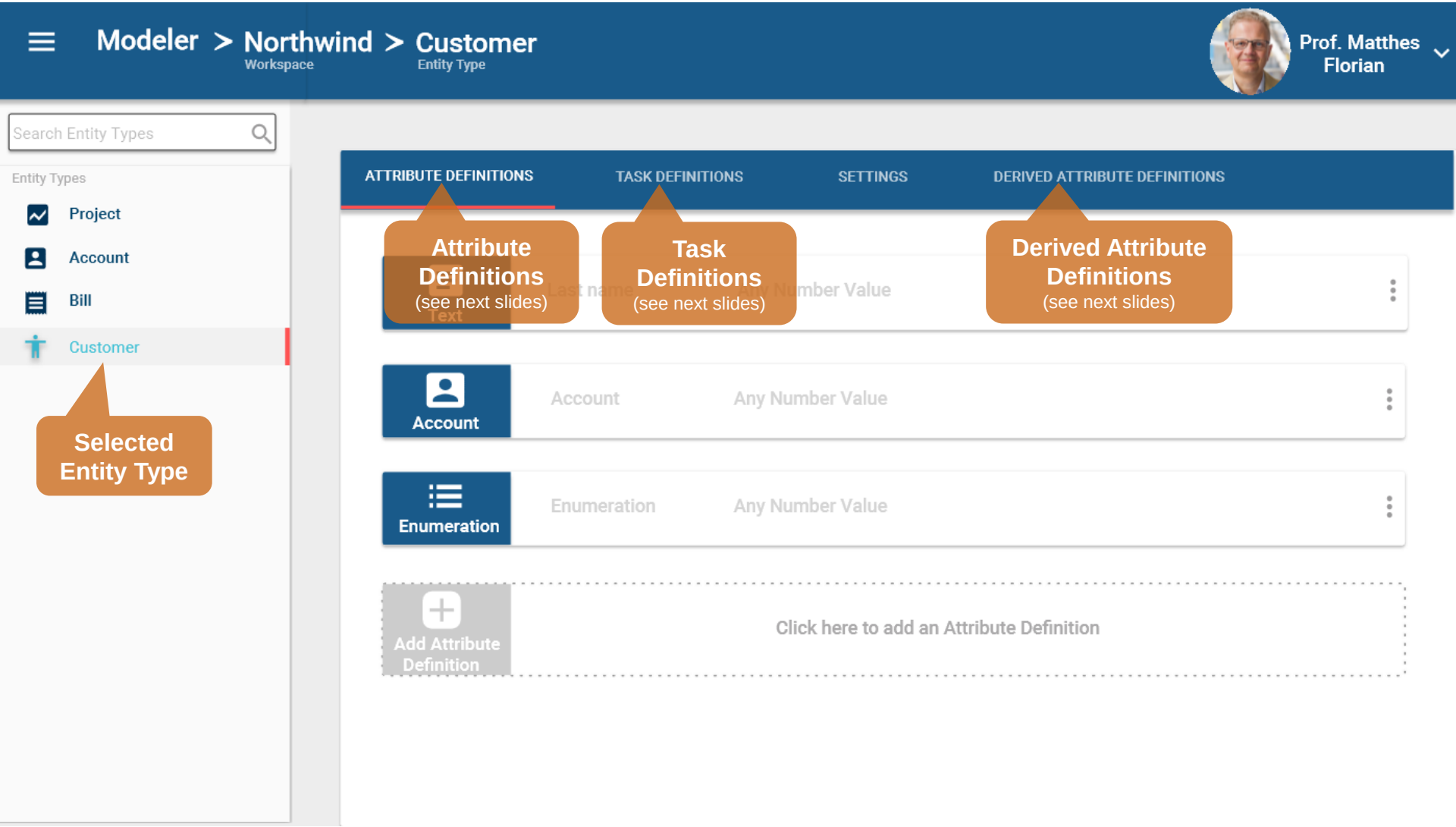
Workspace: Functions



Entity Type



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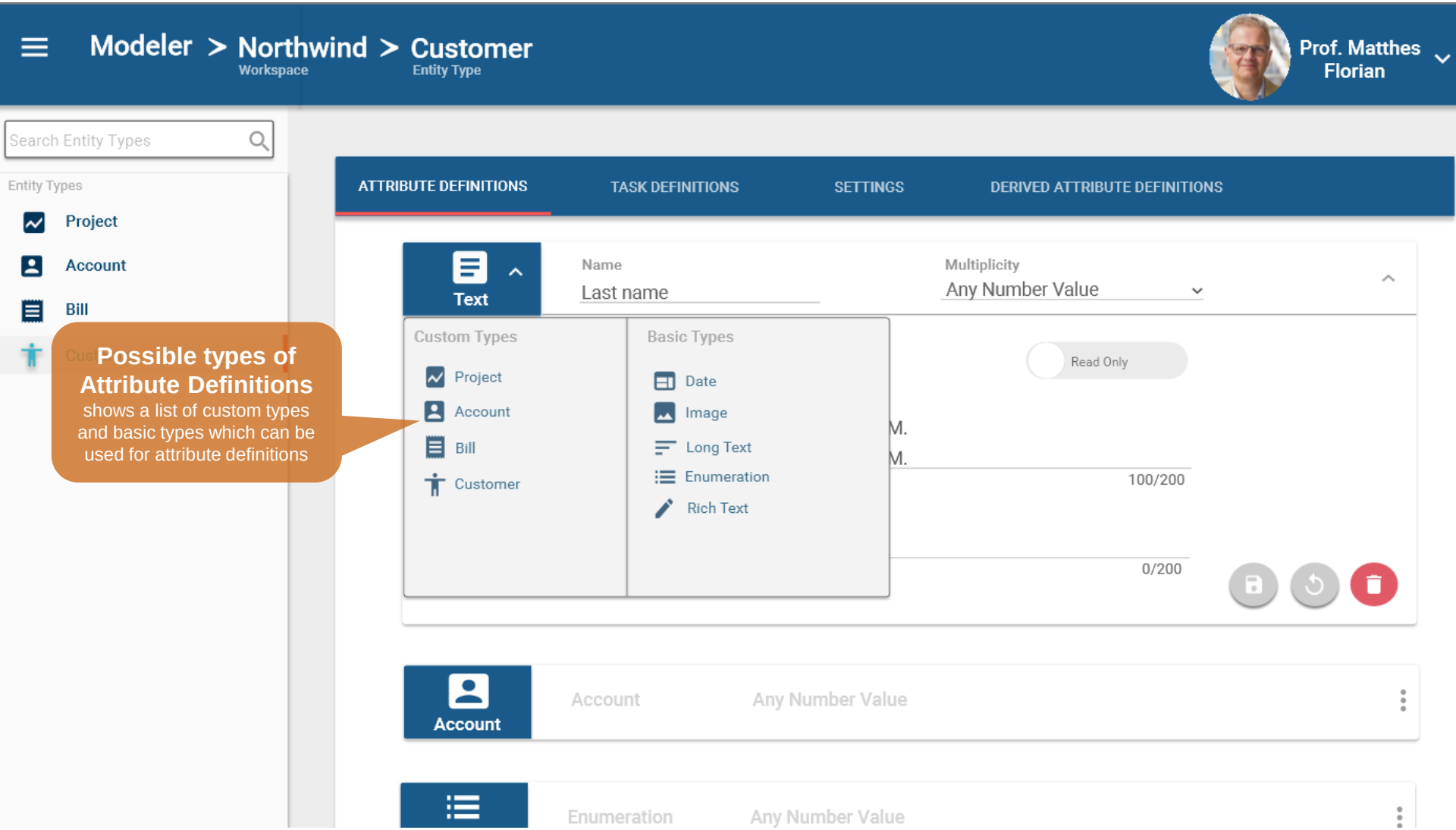
Entity Type: Attribute Definition change type



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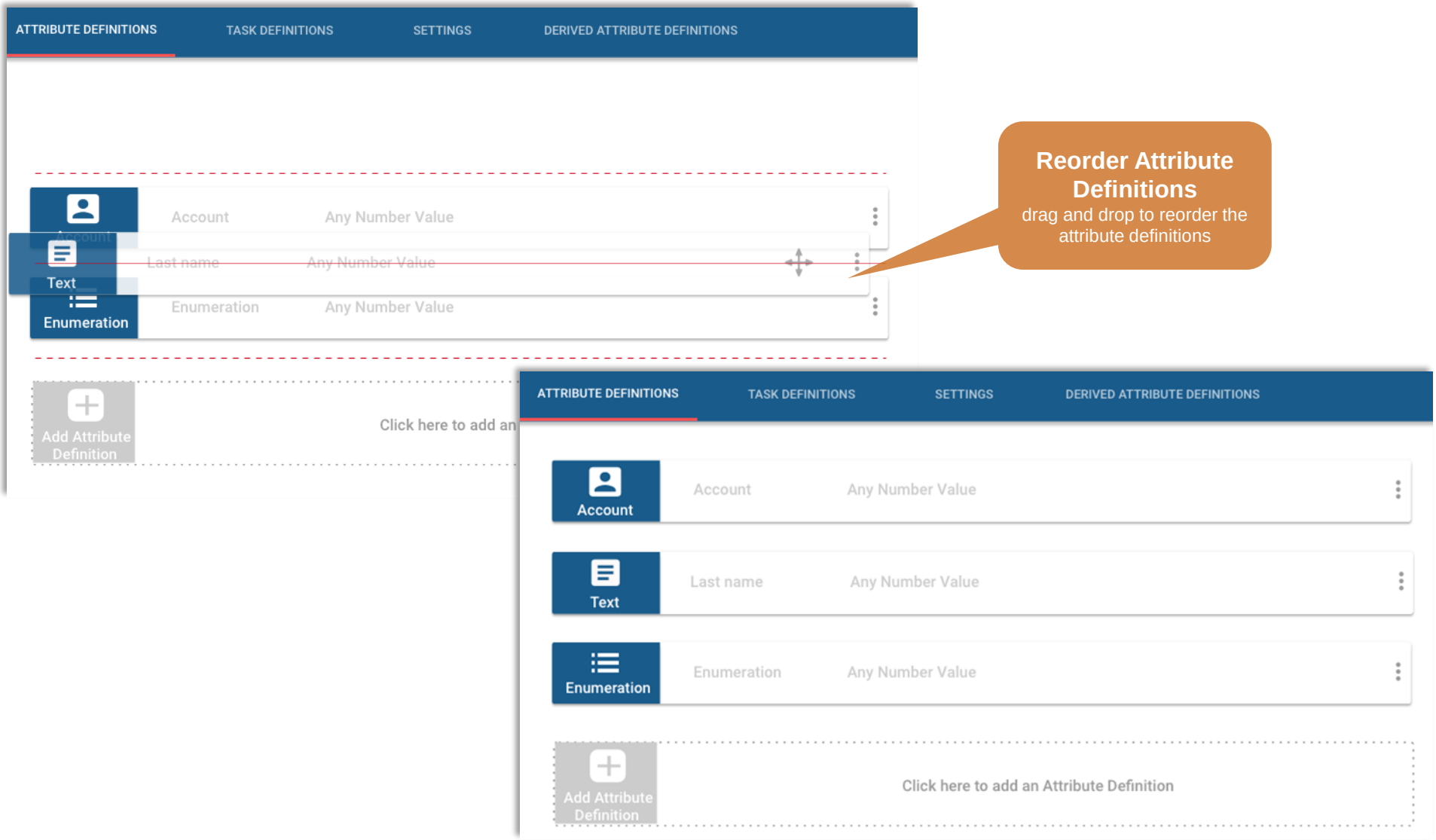
Entity Type: Reorder Attribute Definitions



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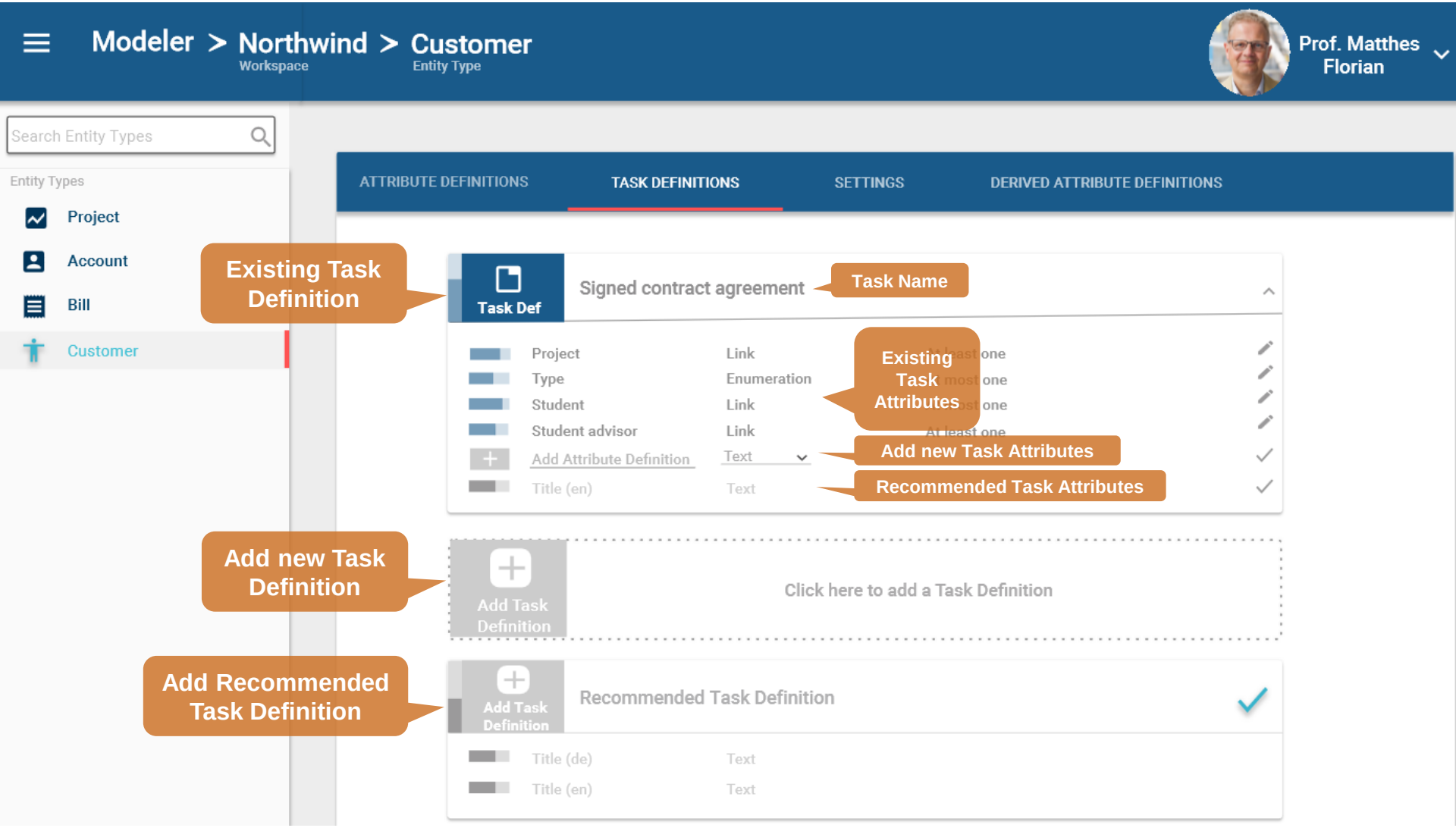
Entity Type: Task Definitions



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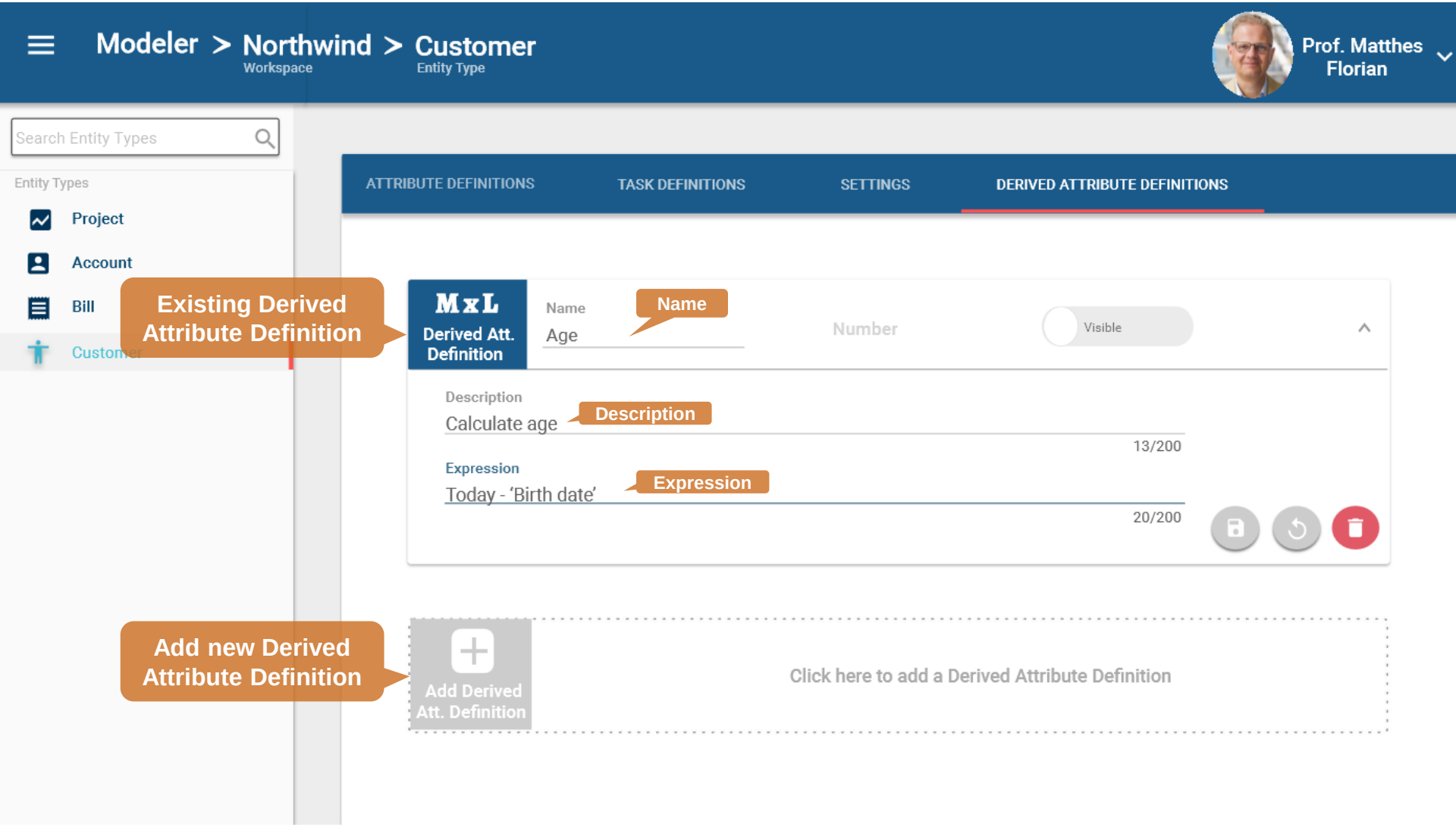
Entity Type: Derived Attribute Definition



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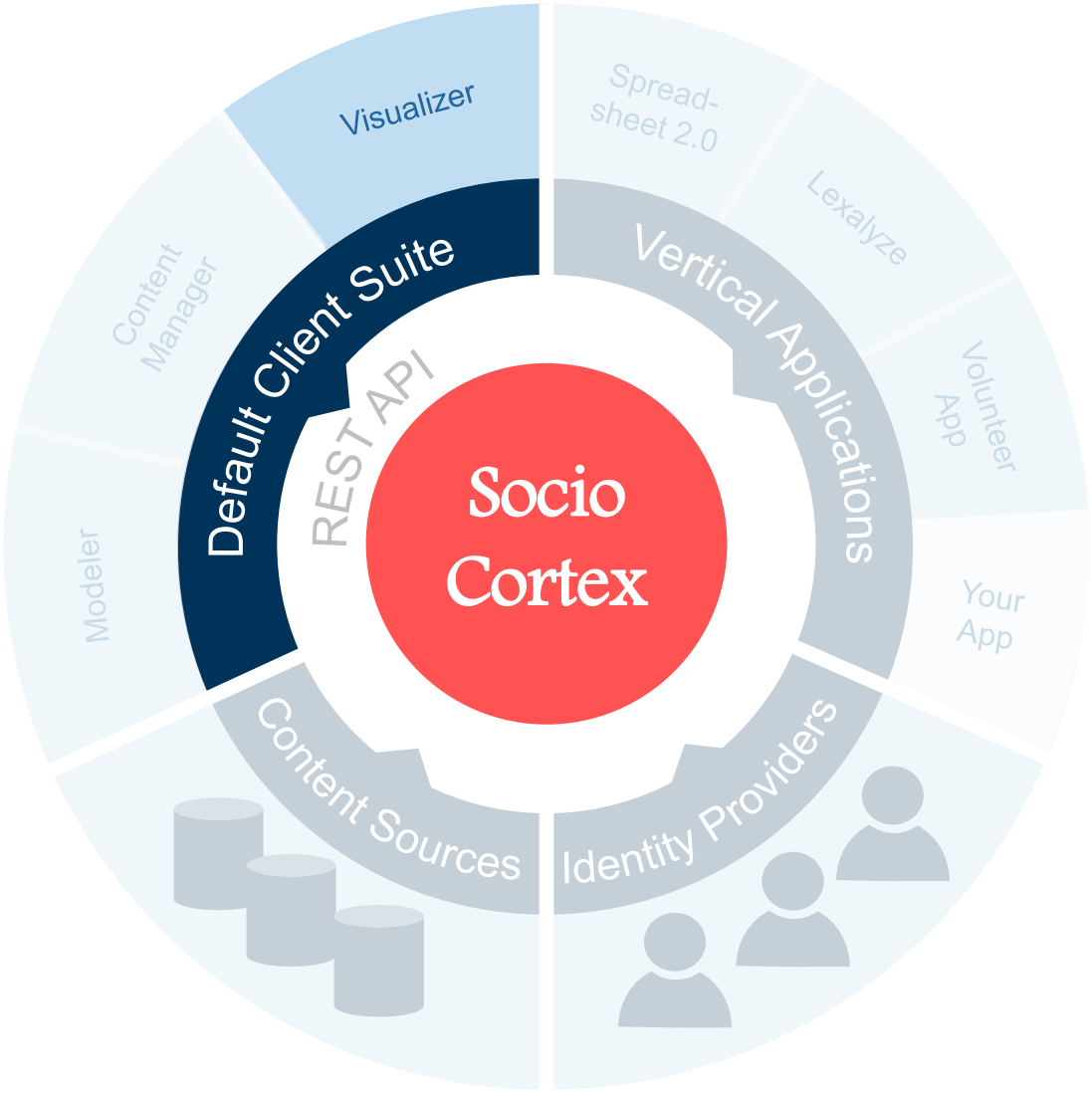
Overview



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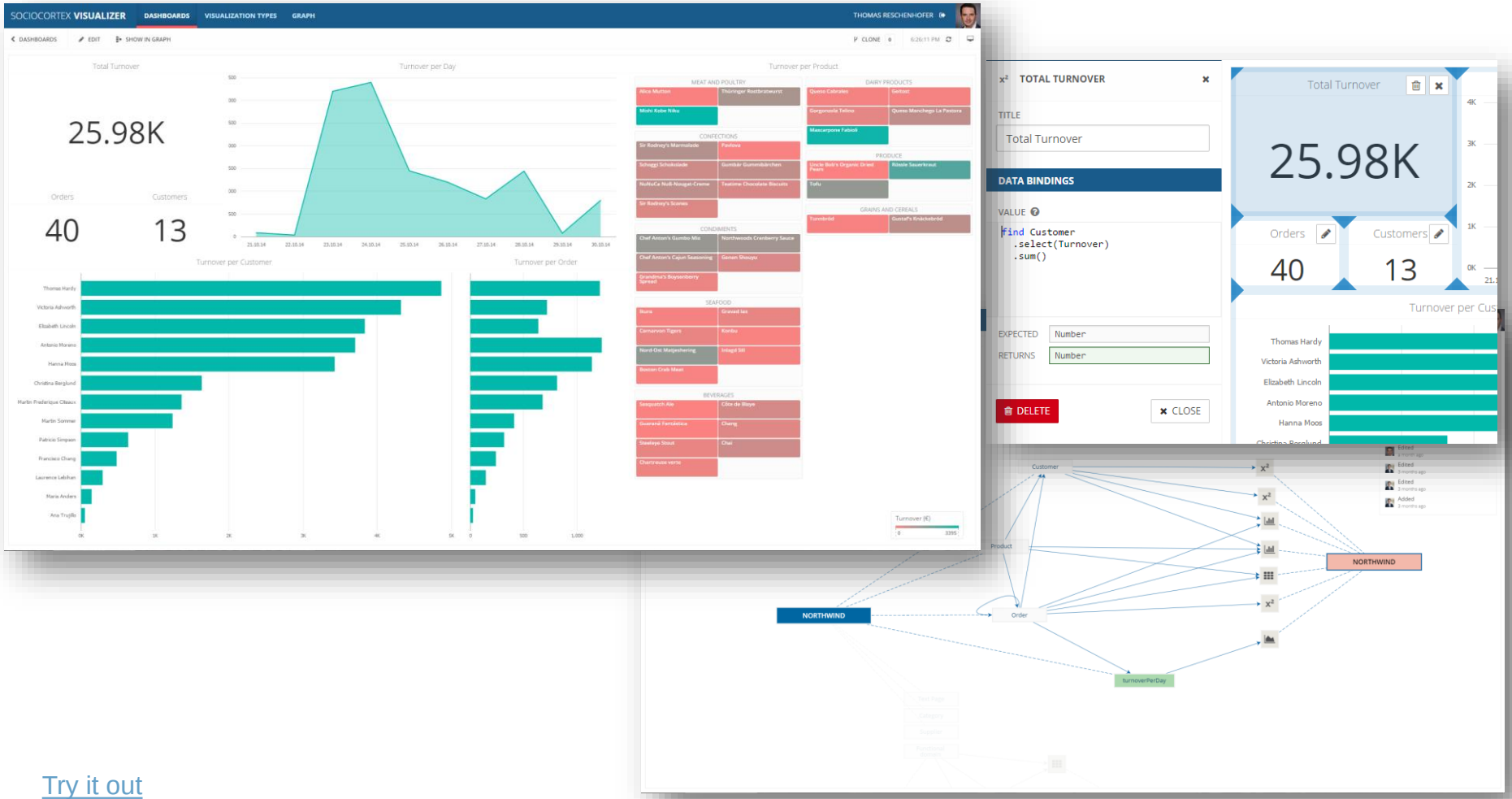
Usage

- **Customizable** dashboards consisting of multiple visualizations
- **Analyzability** to foster transparency of information flow



Try it out

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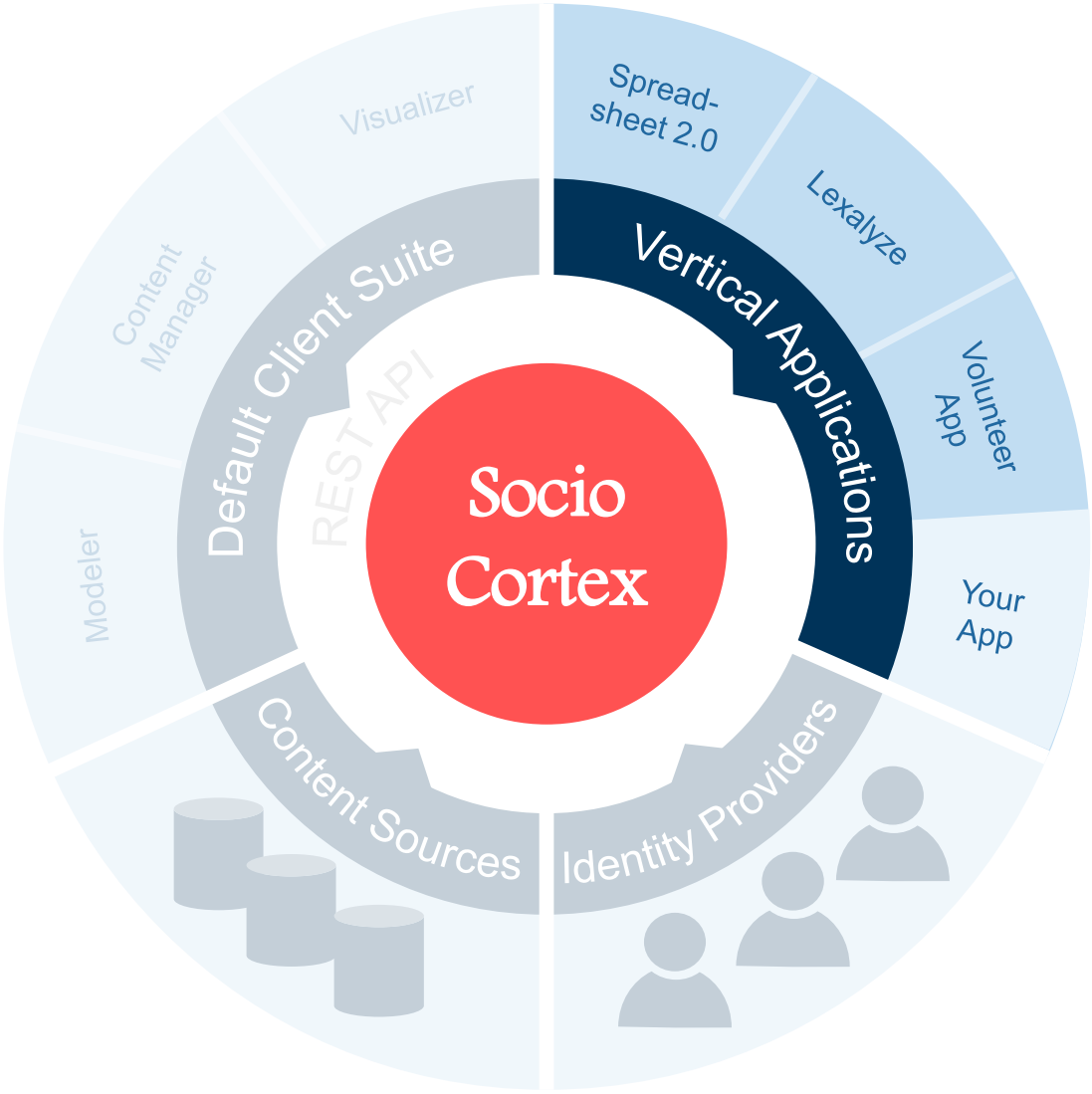
Overview



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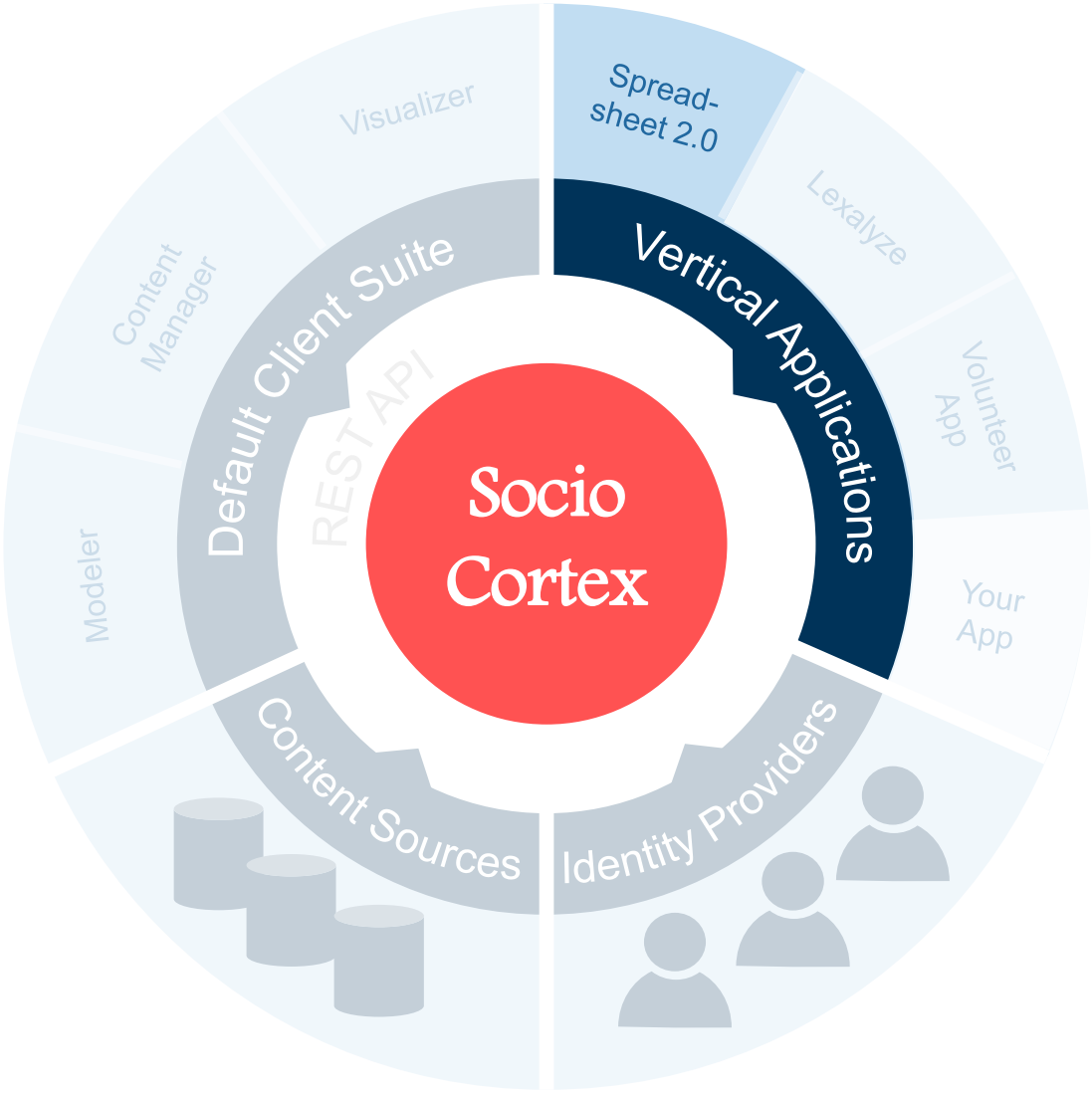
Overview



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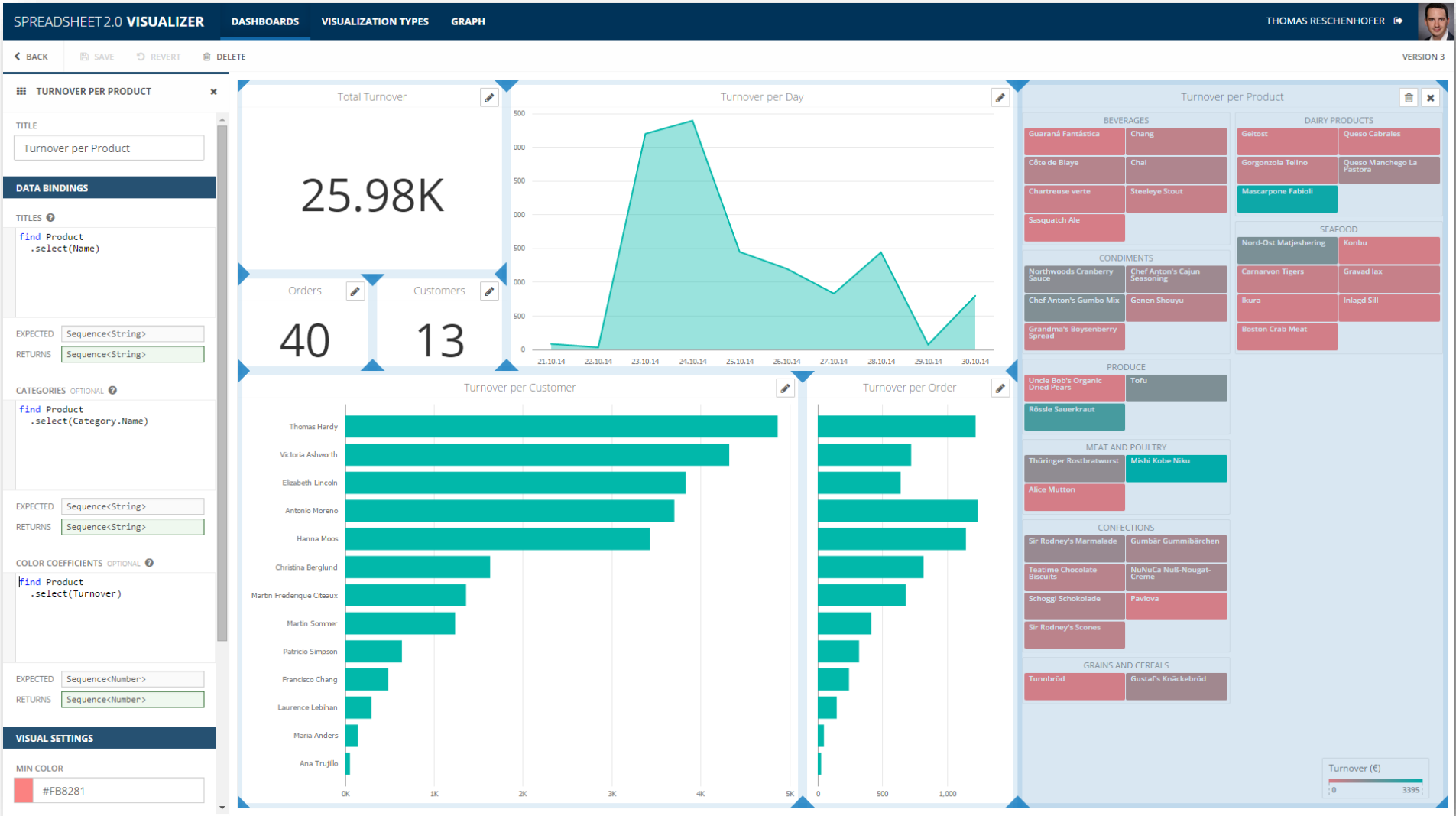
SocioCortex › Default Client Suite › Spreadsheet 2.0 Visualizer

Customizing and Configuring a Dashboard and its Visualizations



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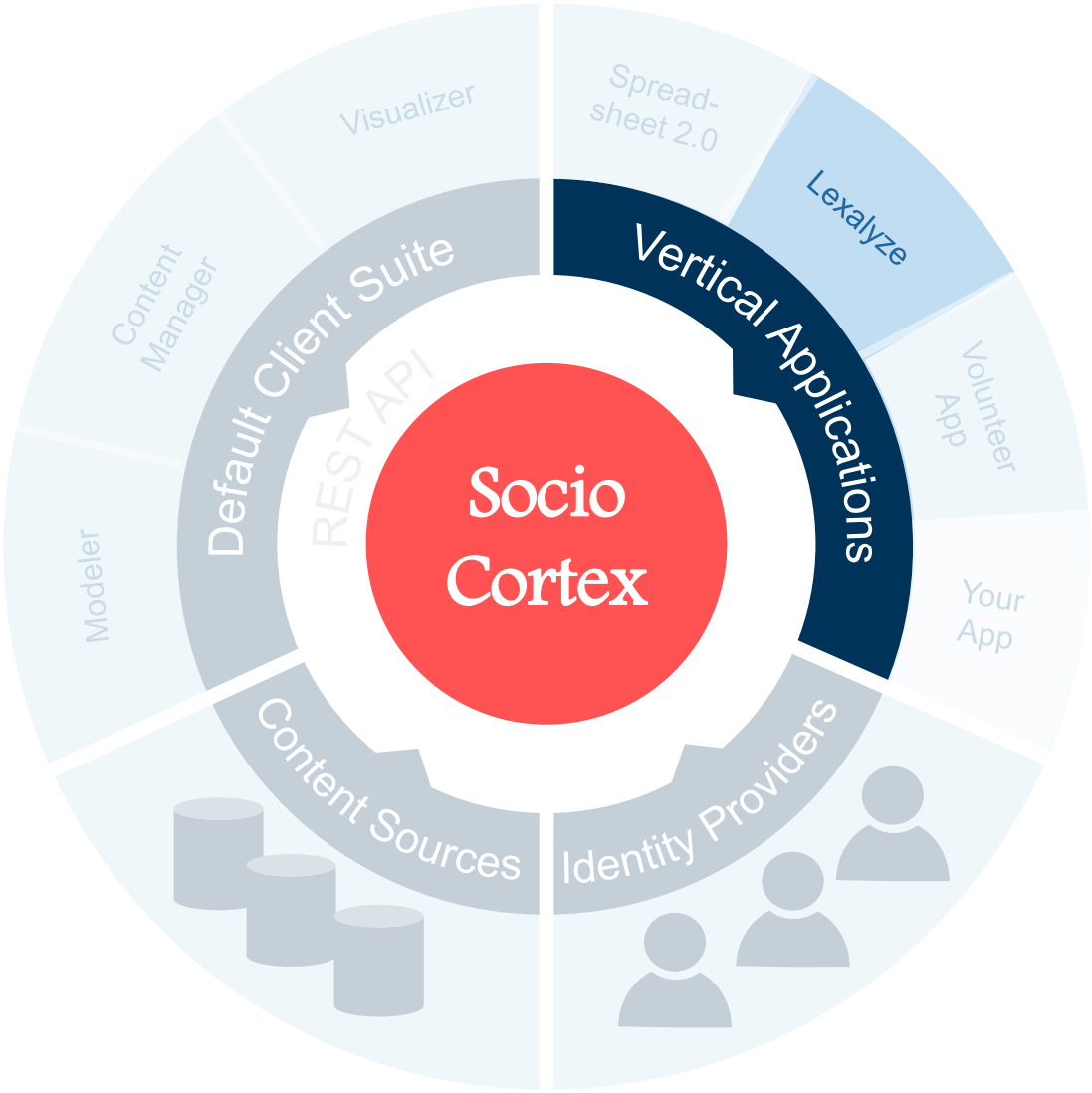
Overview



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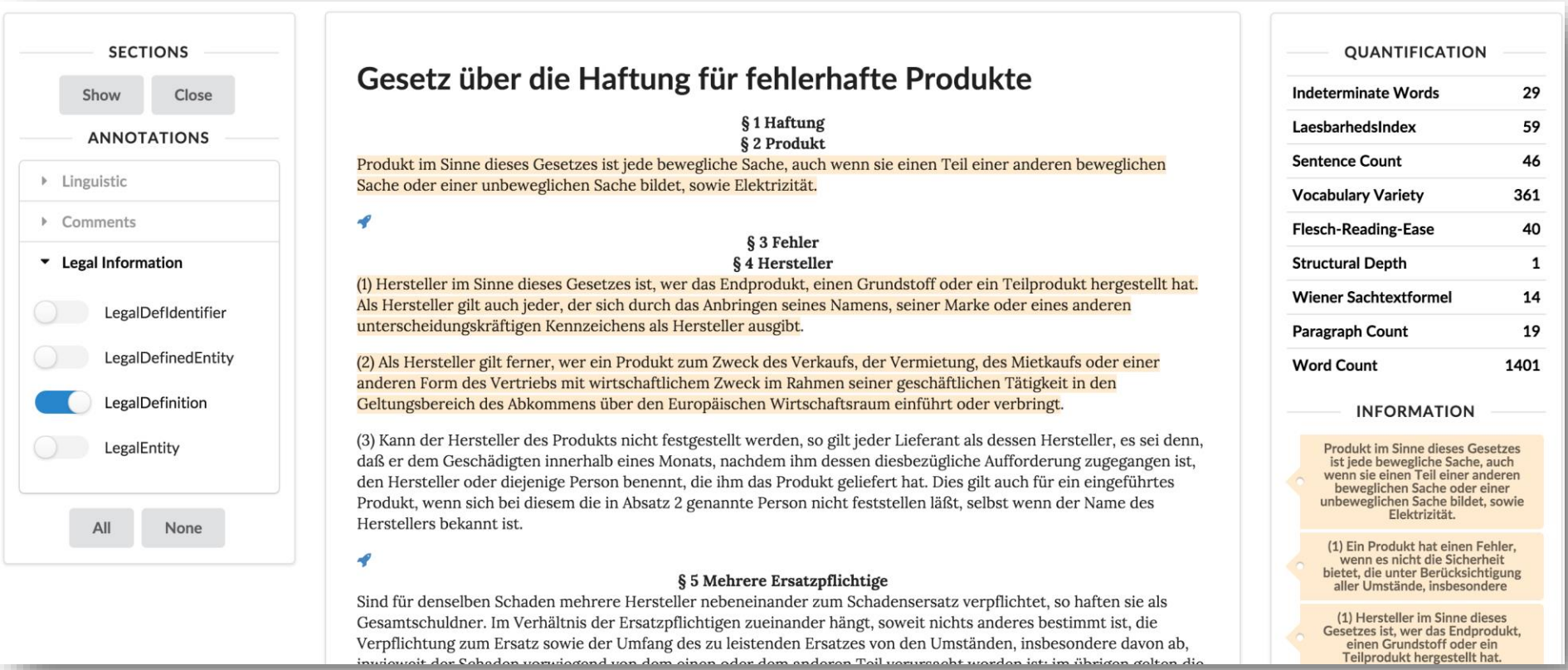
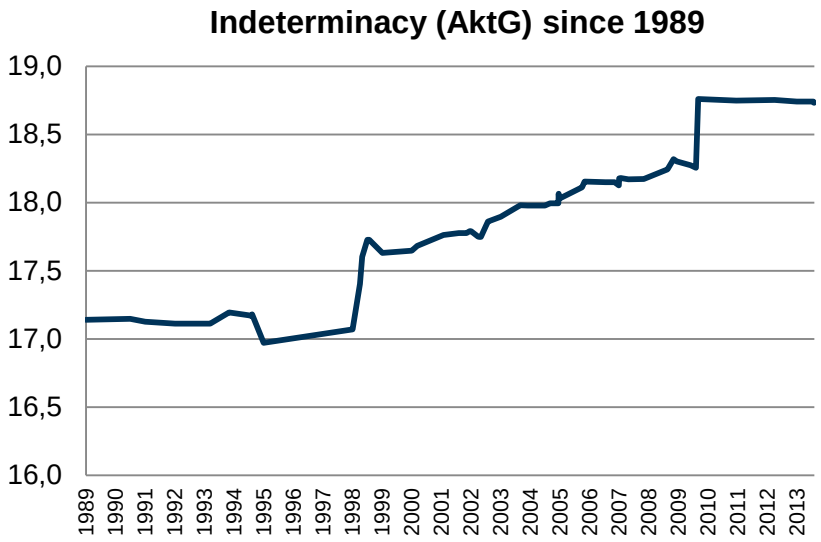
Manual and Automatic Semantic Text Annotations

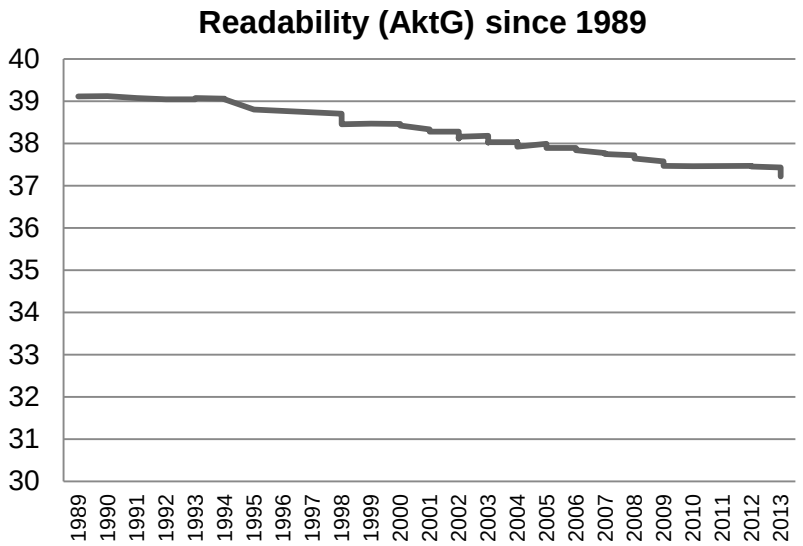
Simple example: Automated part-of-speech tagging

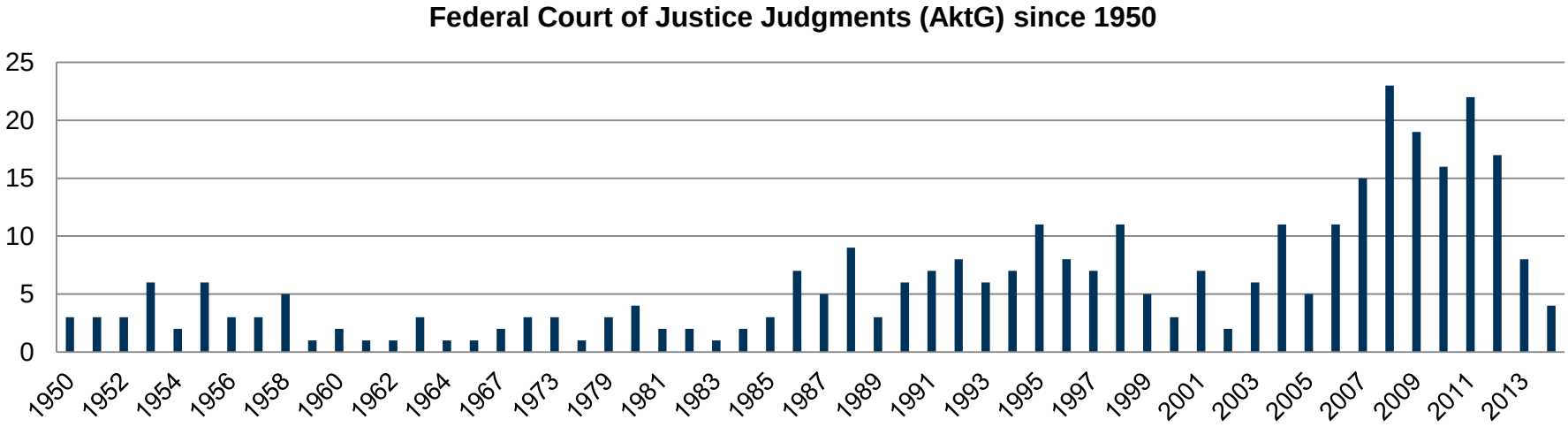
Complex example: Detection of Legal Definitions



Exemplary Metrics on Legal Texts







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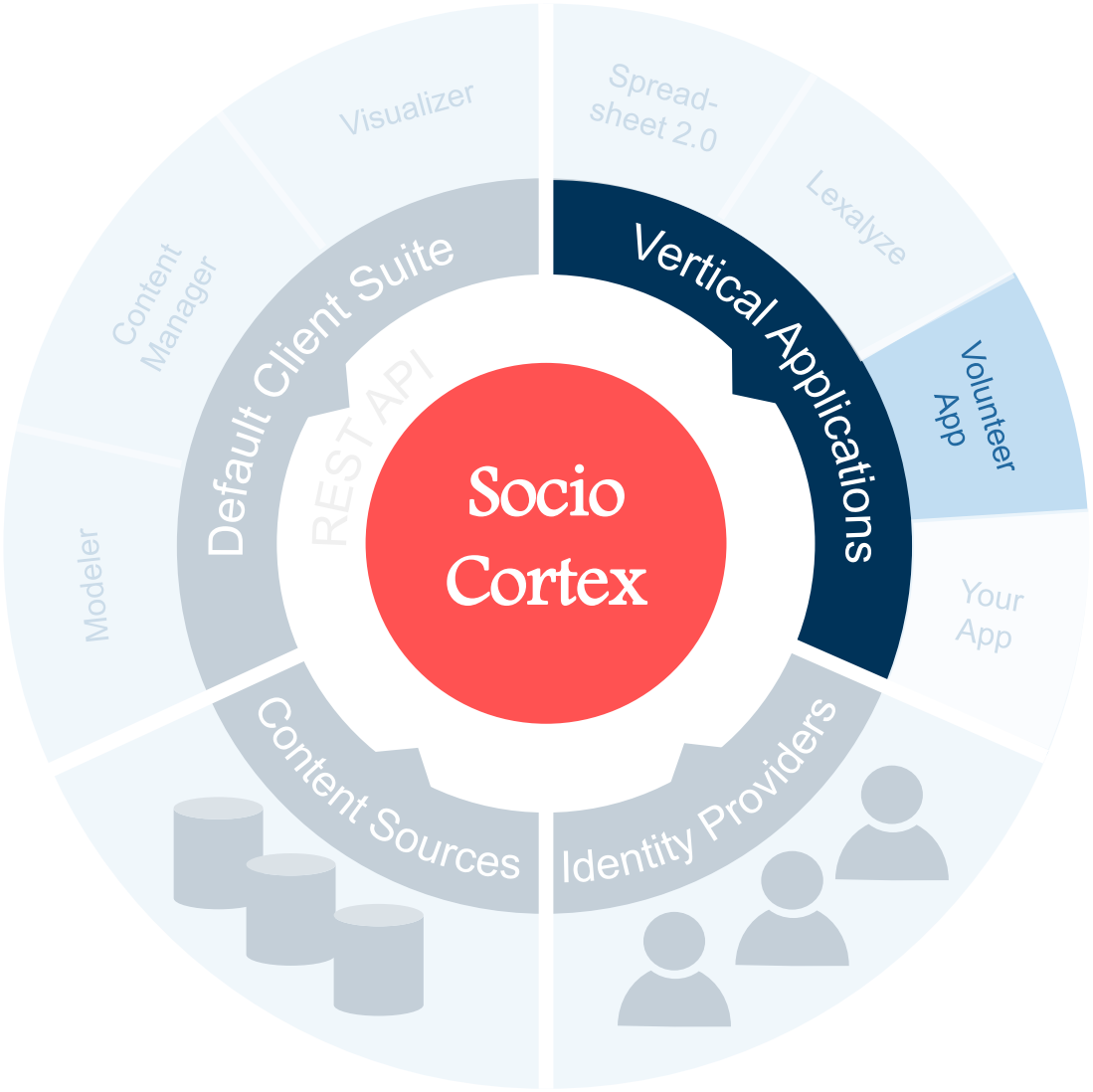
Overview



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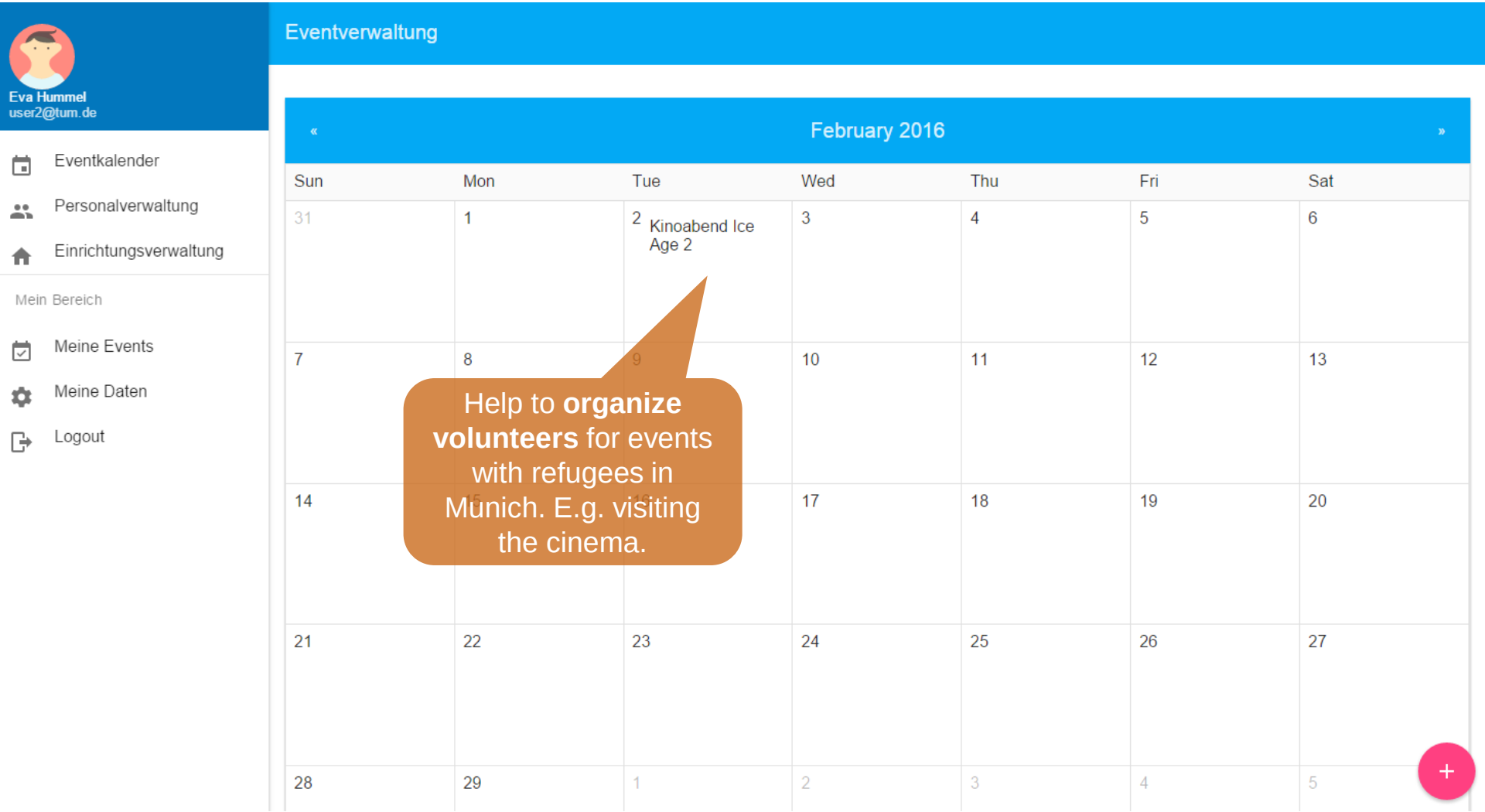
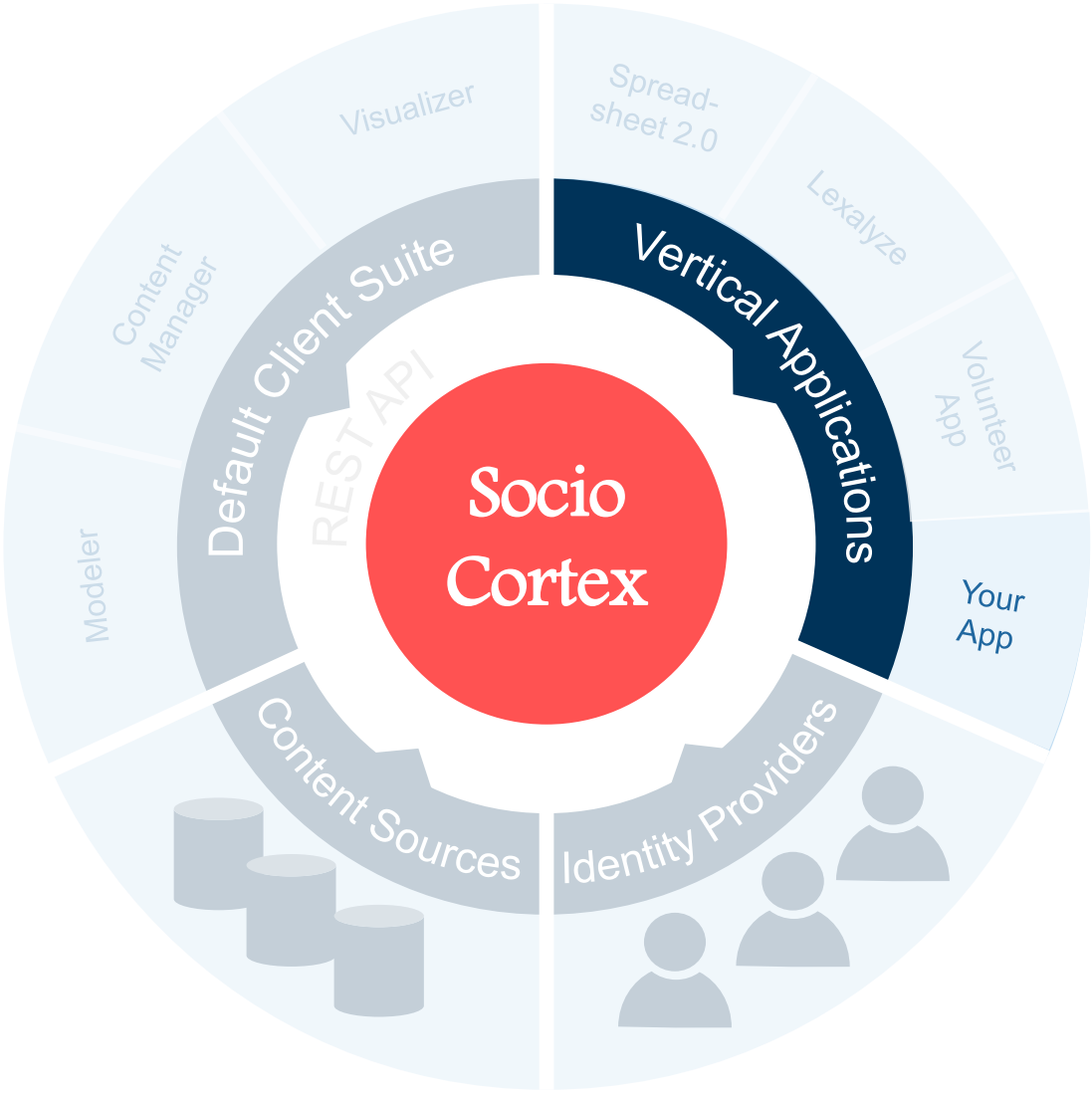
Usage


Eva Hummel
user2@tum.de
Eventkalender
Personalverwaltung
Einrichtungsverwaltung
Mein Bereich
Meine Events
Meine Daten
Logout
Eventverwaltung
« February 2016 »
Sun Mon Tue Wed Thu Fri Sat
31 1 2 Kinoabend Ice Age 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 1 2 3 4 5
Help to **organize volunteers** for events with refugees in Munich. E.g. visiting the cinema.

Overview



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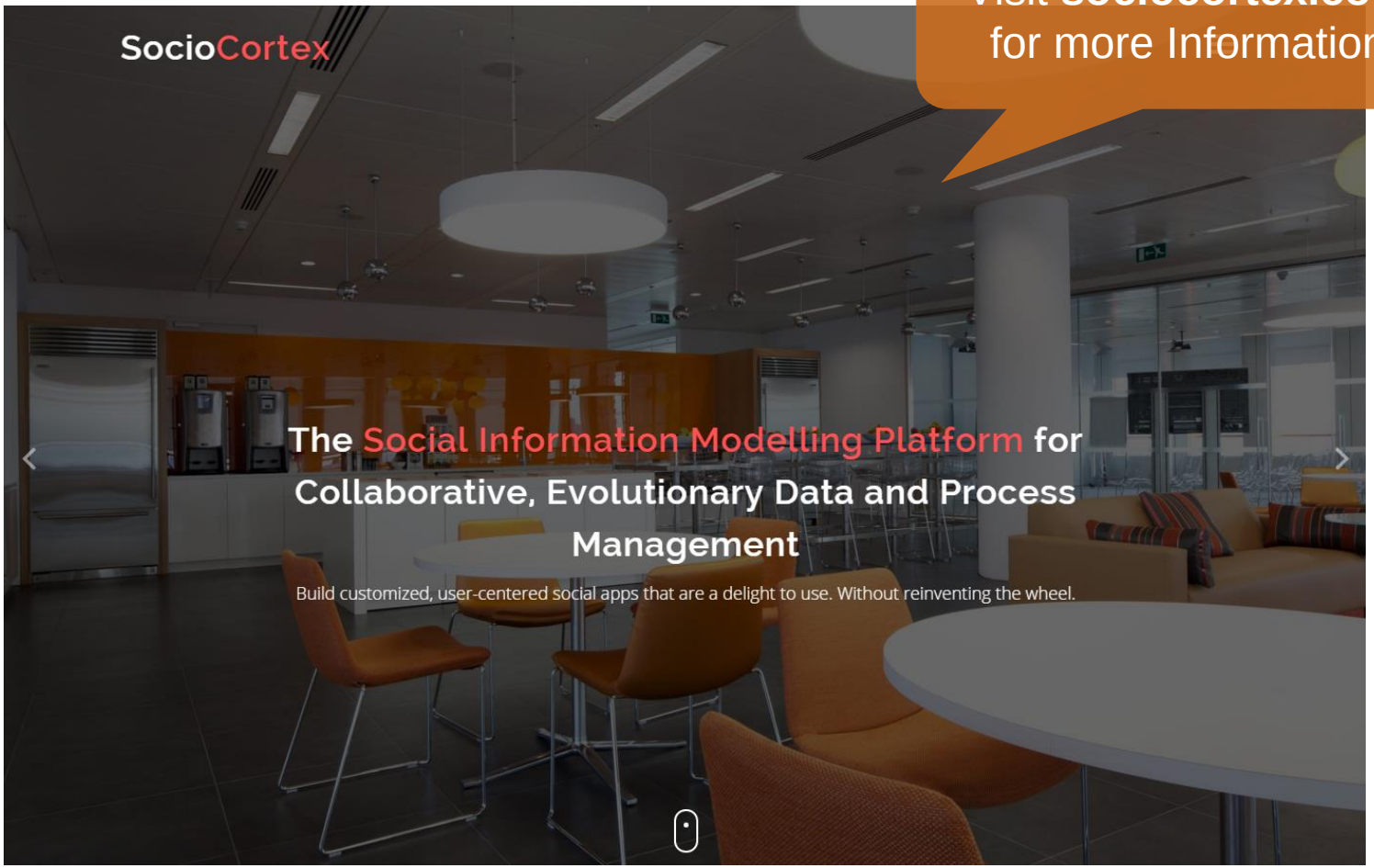
Visit **sociocortex.com** for more Information



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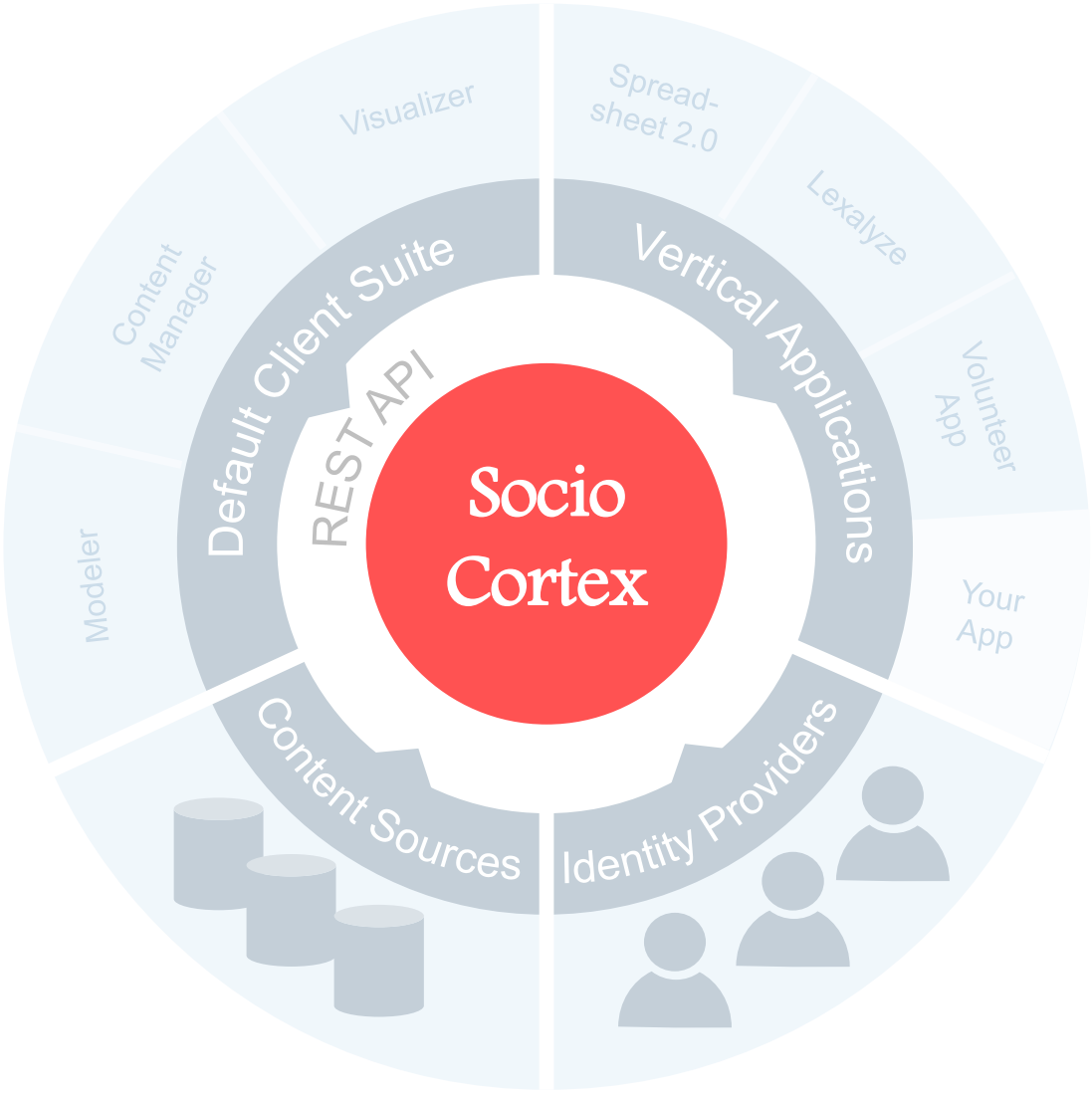
Overview



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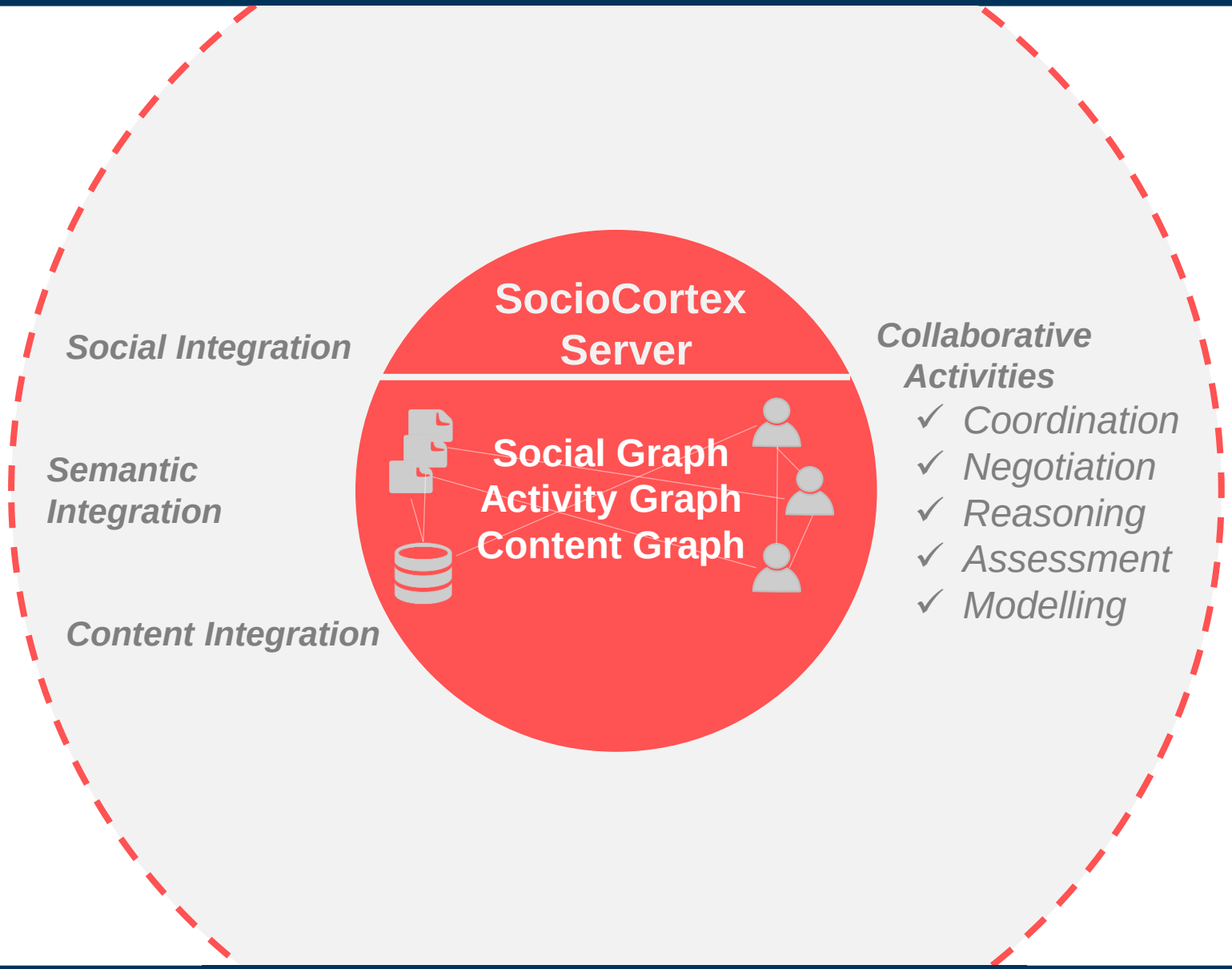
Social Integration
Semantic Integration
Content Integration
SocioCortex Server
Social Graph
Activity Graph
Content Graph
Collaborative Activities
✓ Coordination
✓ Negotiation
✓ Reasoning
✓ Assessment
✓ Modelling

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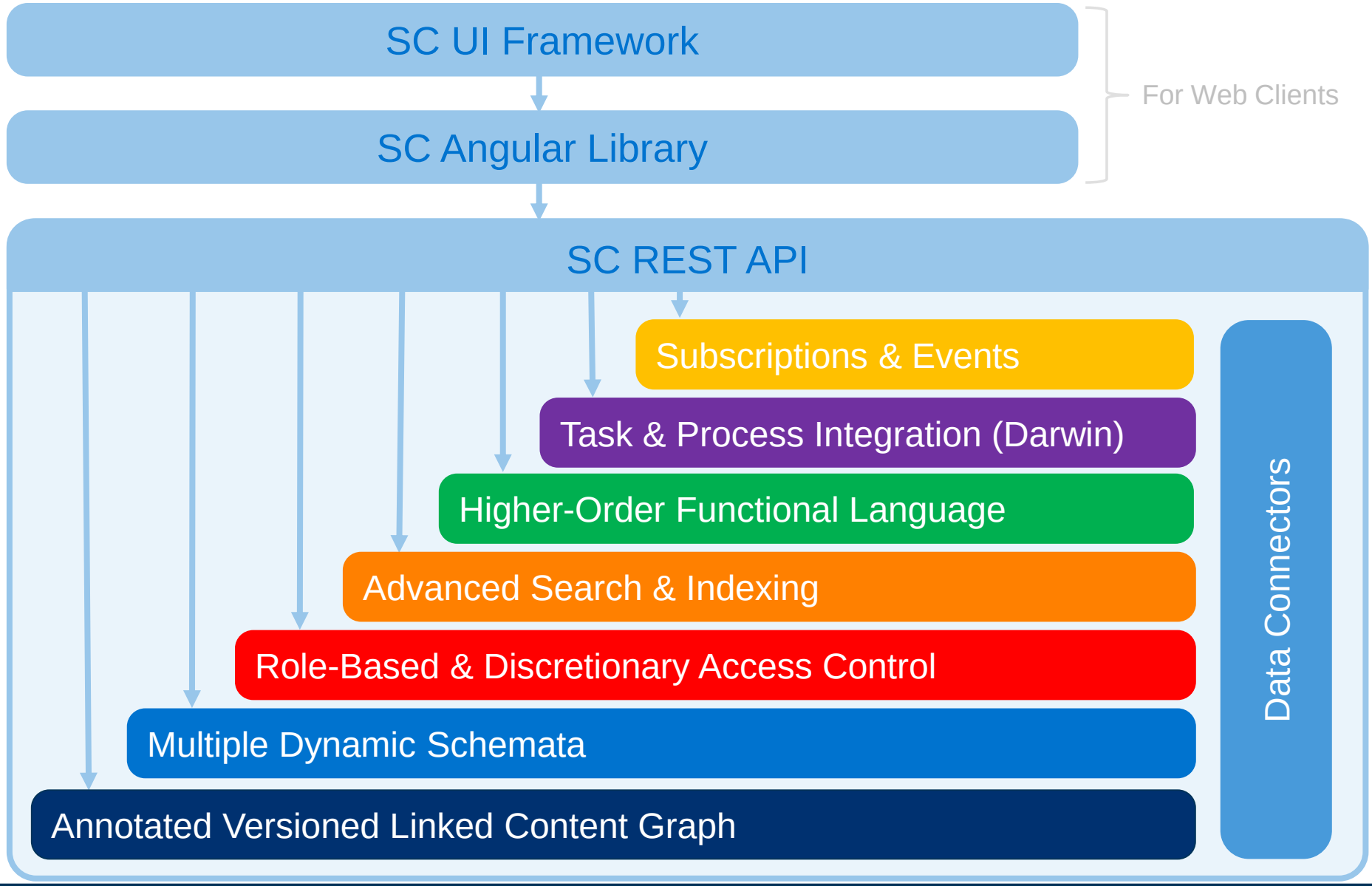
Conceptual Architecture



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SocioCortex › Core
Feature Map

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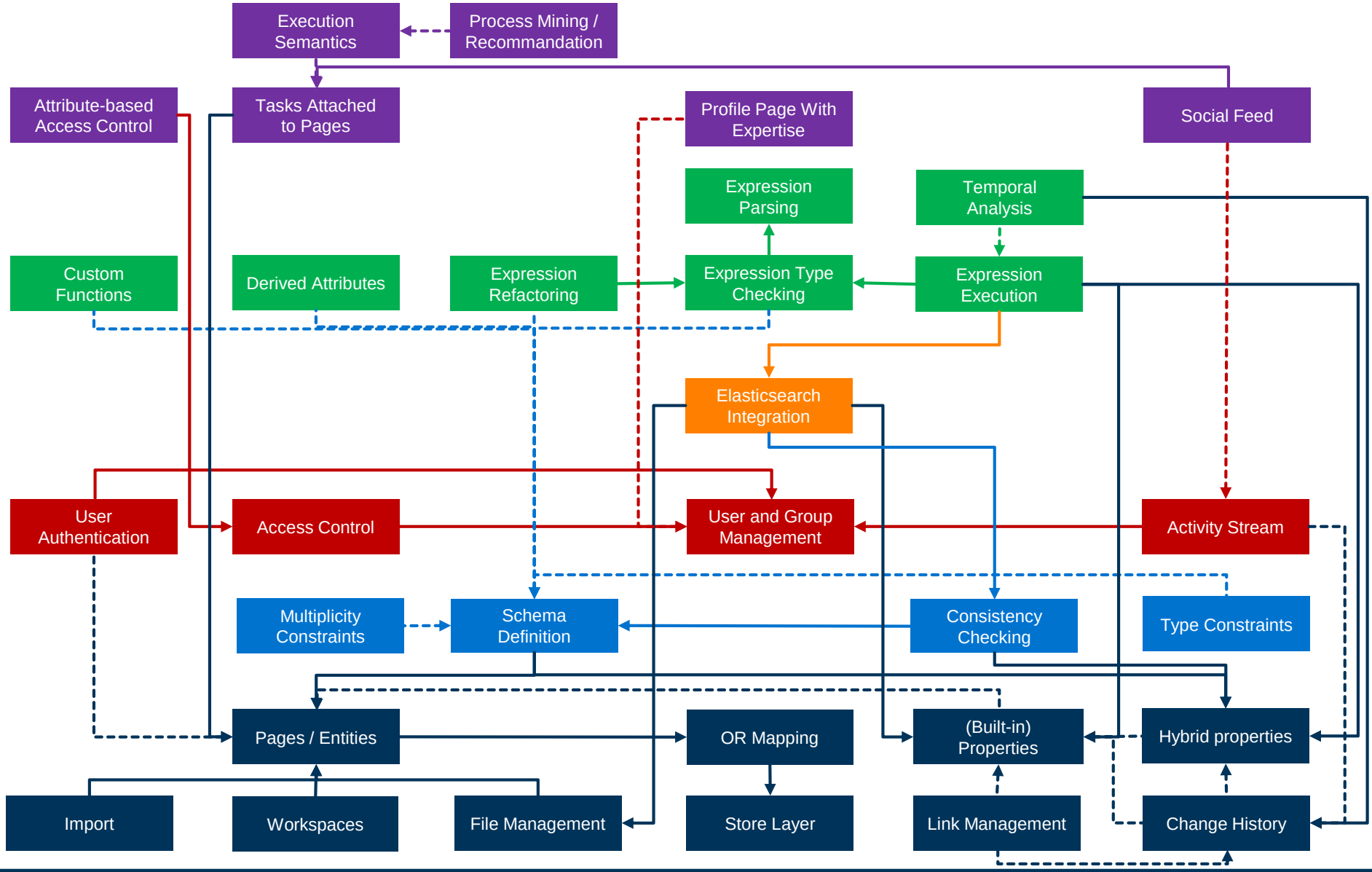

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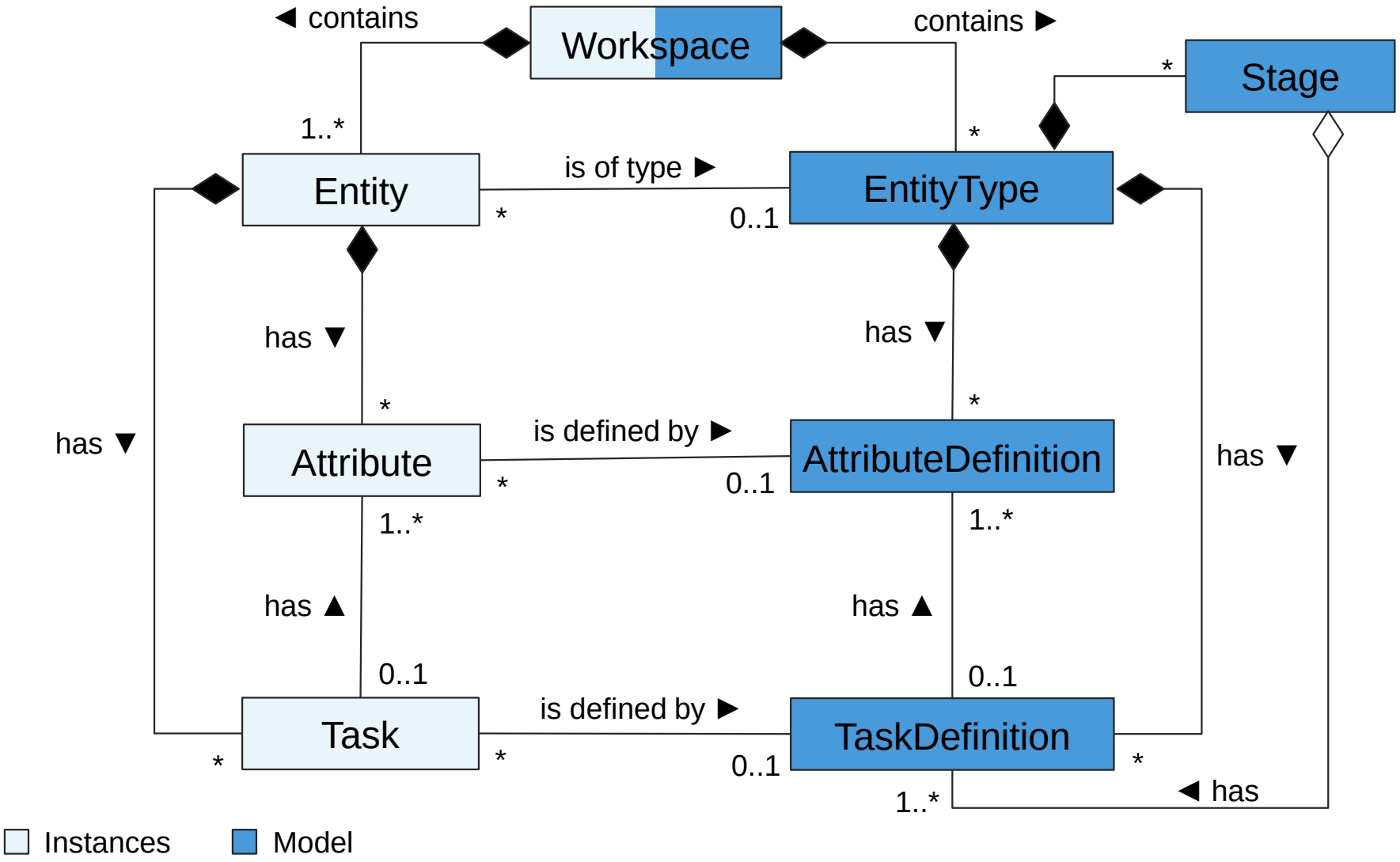
Conceptual Model



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SocioCortex › Core
Eco-System Architecture

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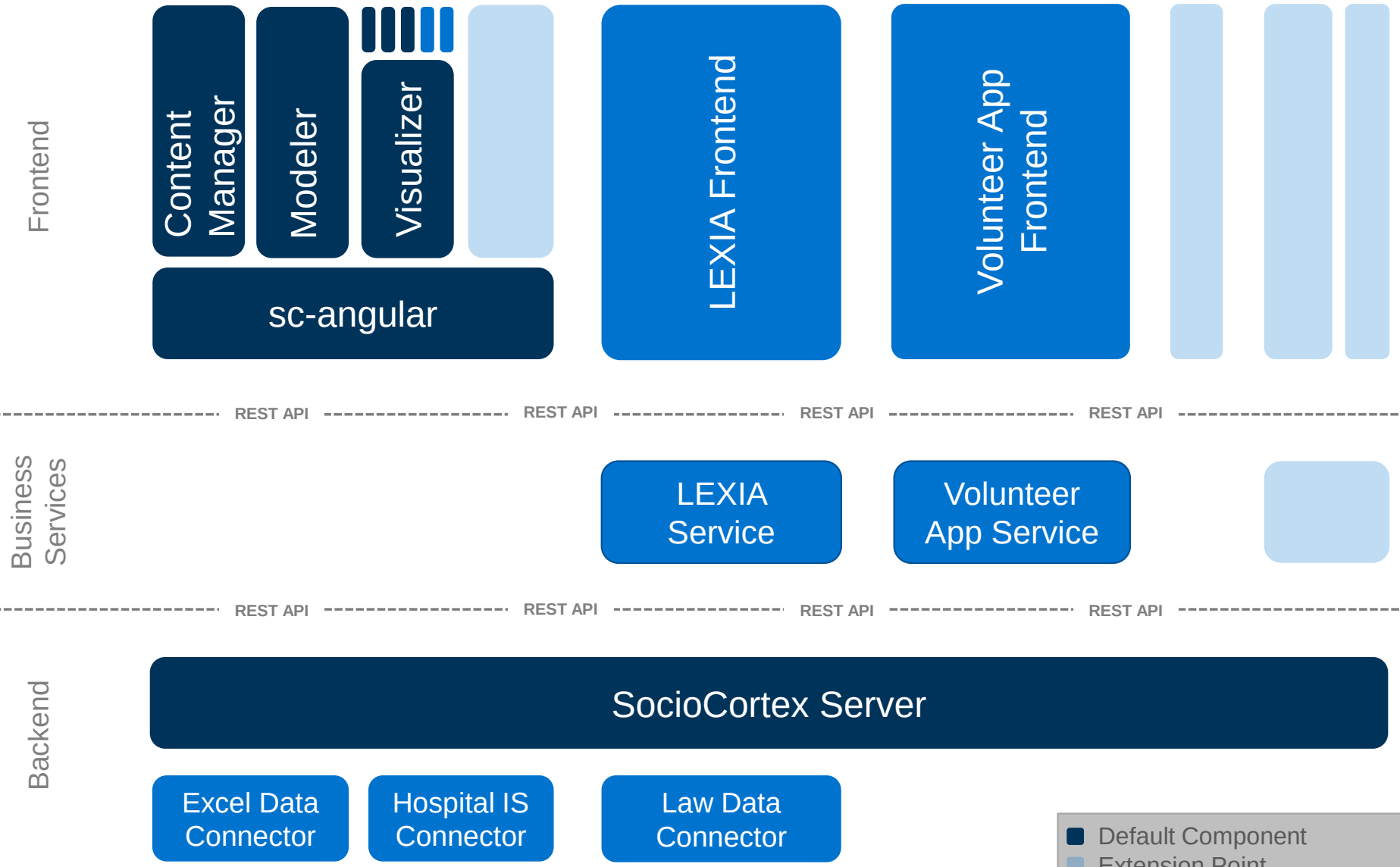

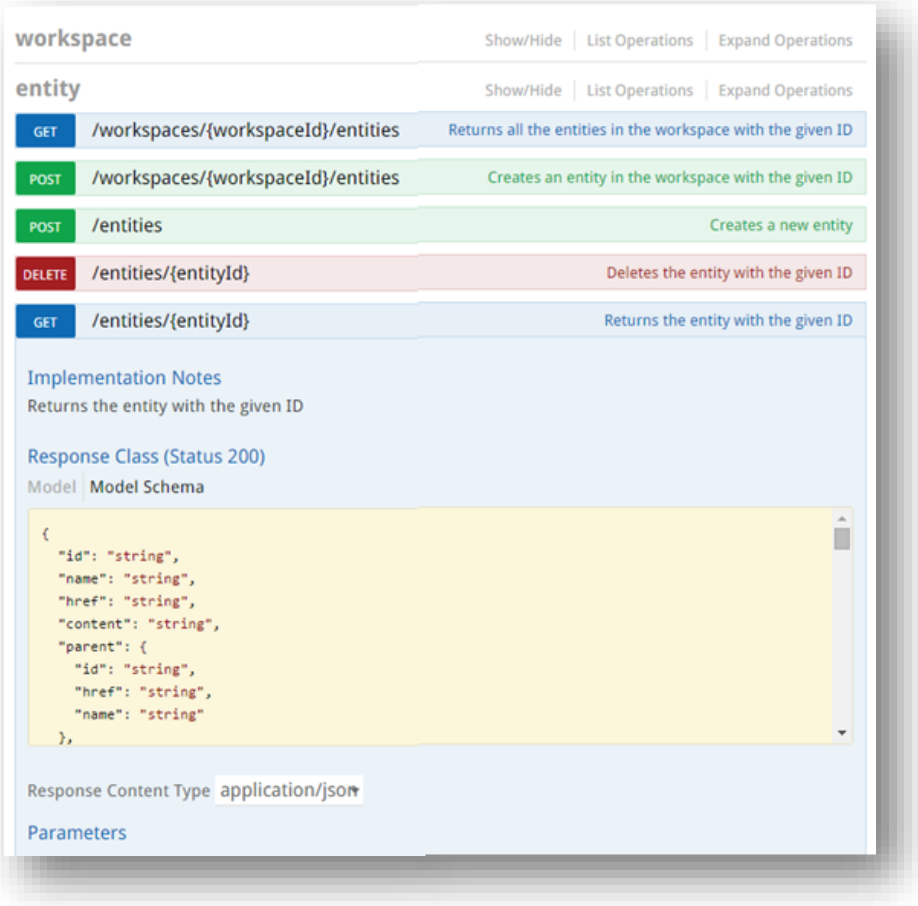

Resources types for

- ✓ **Instances** (entities, attributes, tasks)
- ✓ **Model elements** (entity types, attribute definitions, task definitions, stages)
- ✓ **Meta information** (Users and access rights, version)
- ✓ **Analysis entities** (Metrics and Queries)

CRUD operations for all resources types

- ✓ GET, POST, PUT, DELETE

The **documentation** of the SC REST API is accessible via http://www.sociocortex.com/documentation/

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AngularJS-based Library for SocioCortex Resources

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SocioCortex Web Clients

sc-angular

ANGULARJS by Google

scData

Access to
- Workspaces
- Entities
- attributes

scModel

Access to
- Entity types
- Attribute definitions
- Task definitions
- Stages

scAuth

Handles
- User authentication
- (Client-based) sessions

scPrincipal

Handles
- User authentication
- (Client-based) sessions

scMxl

Provides methods to
- Perform queries based on MxL
- Define derived attributes

SocioCortex REST API

Available at https://github.com/sebischair/sc-angular

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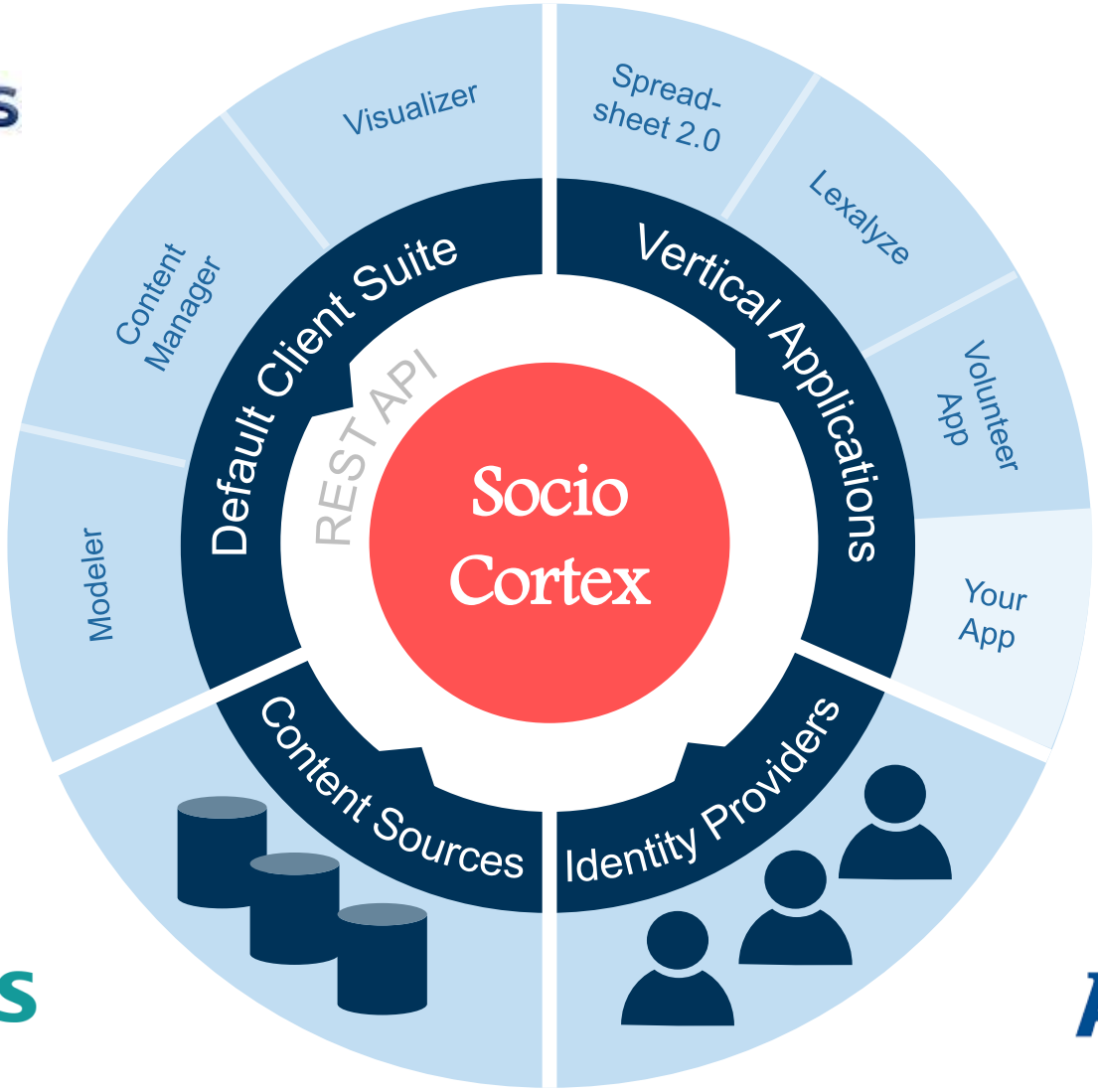
Visualizer
Spread-sheet 2.0
Lexalyze
Volunteer App
Your App
Content Manager
Modeler
Default Client Suite
Vertical Applications
REST API
Socio Cortex
Content Sources
Identity Providers

SocioCortex Projects and Partners

Software for Knowledge-Intensive Team Work

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Domain	Project Management	Research Consortia	Health Care	Software Engineering	Enterprise Architecture Management	Legal Tech	Startups	Aviation	Urban Mobility	NGOs
Projects	Tricia	Smart Nets	Connecare	Amelie	Agile & Pattern-Based EAM	LexAlyze Compliance Management	InCoBate	PIANO SoS Modeling for CPS	TUM Living Lab Connected Mobility	Volunteer Broker
PhDs *currently* working on that topic	0	0	2	2	2	1	1	0,2	5	0,2
Industry Partners	Telekom infoAsset	FP7 Smart Nets	Horizon2020	Siemens	msg systems KVB	Allianz (Deloitte)	Strascheg Center for Enterpreneurship	Airbus	BMW, Siemens HERE	Volunteer App

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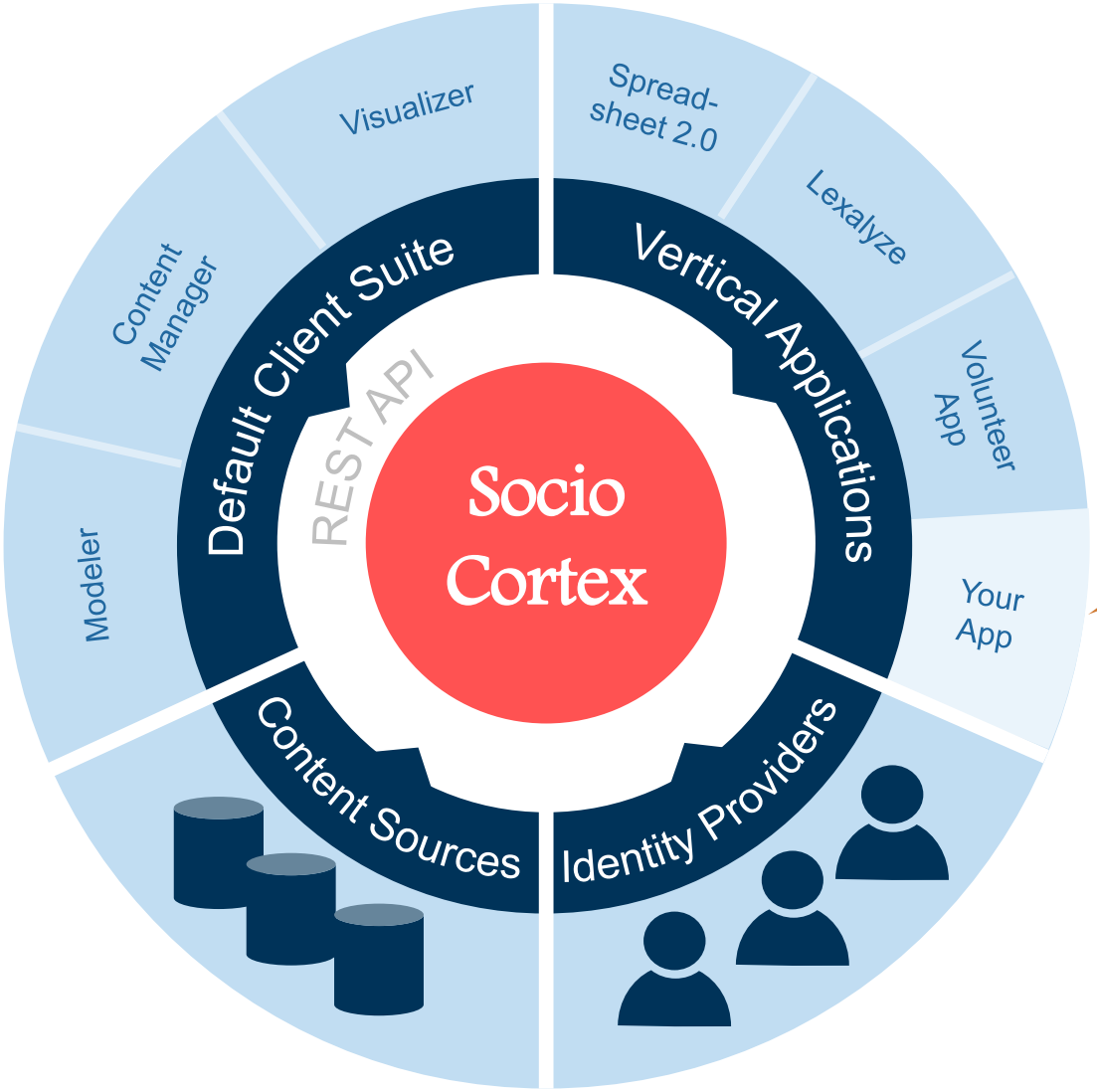
The SocioCortex Eco-System



Clients and frameworks are **Open Source** and available on GitHub

Core will be **Open Source soon**

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For more Information please visit
sociocortex.com

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