CEDAR System Architecture

Desktop Manager

Template Designer

Metadata Editor

Open Services

user management

resource management

intelligent authoring

metadata export

controlled terms

- Auth. Service (Keycloak)
- Resource Service
- Value Recommender Service
- Terminology Service
- Folder Service
- User Service
- Group Service
- Template Service
- Worker Service
- Submission Service

BioPortal

NCBO BioPortal Open Services

Storage

- Users (MongoDB) — *user profiles*
- Permissions (Neo4j DB) — *user authorization*
- Template Resources (MongoDB)
- Message Queue & Cache (Redis)

Search

- Search Engine (Elasticsearch)

indexes

i_1 i_2 ... i_n

Public Repositories

r_1

r_2

⋮

r_m

Template Model

Templates Elements Fields → Metadata

CEDAR
CENTER FOR EXPANDED DATA ANNOTATION and RETRIEVAL

⬡ = CEDAR components
⬡ = Third-party components
⬡ = Only internal access