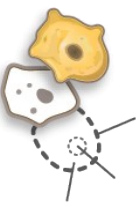




BioPortal Architecture and Plans

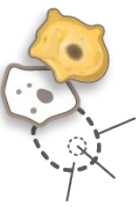
November 29, 2011

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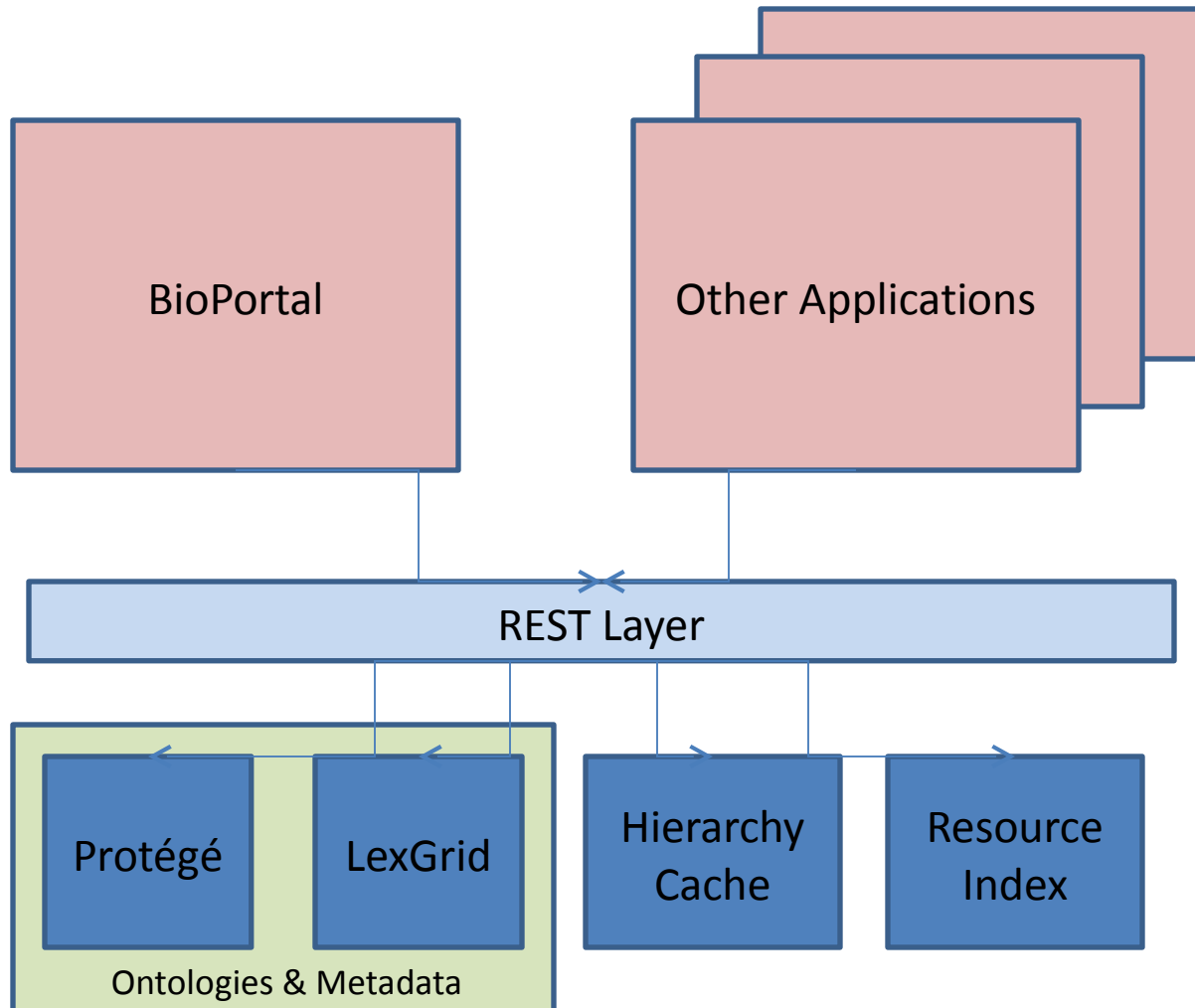


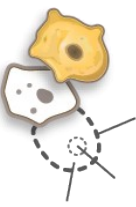
Outline

- Current Architecture
- Planned Architecture
- Plans
 - Current Development
 - Future Development
 - Not on the radar

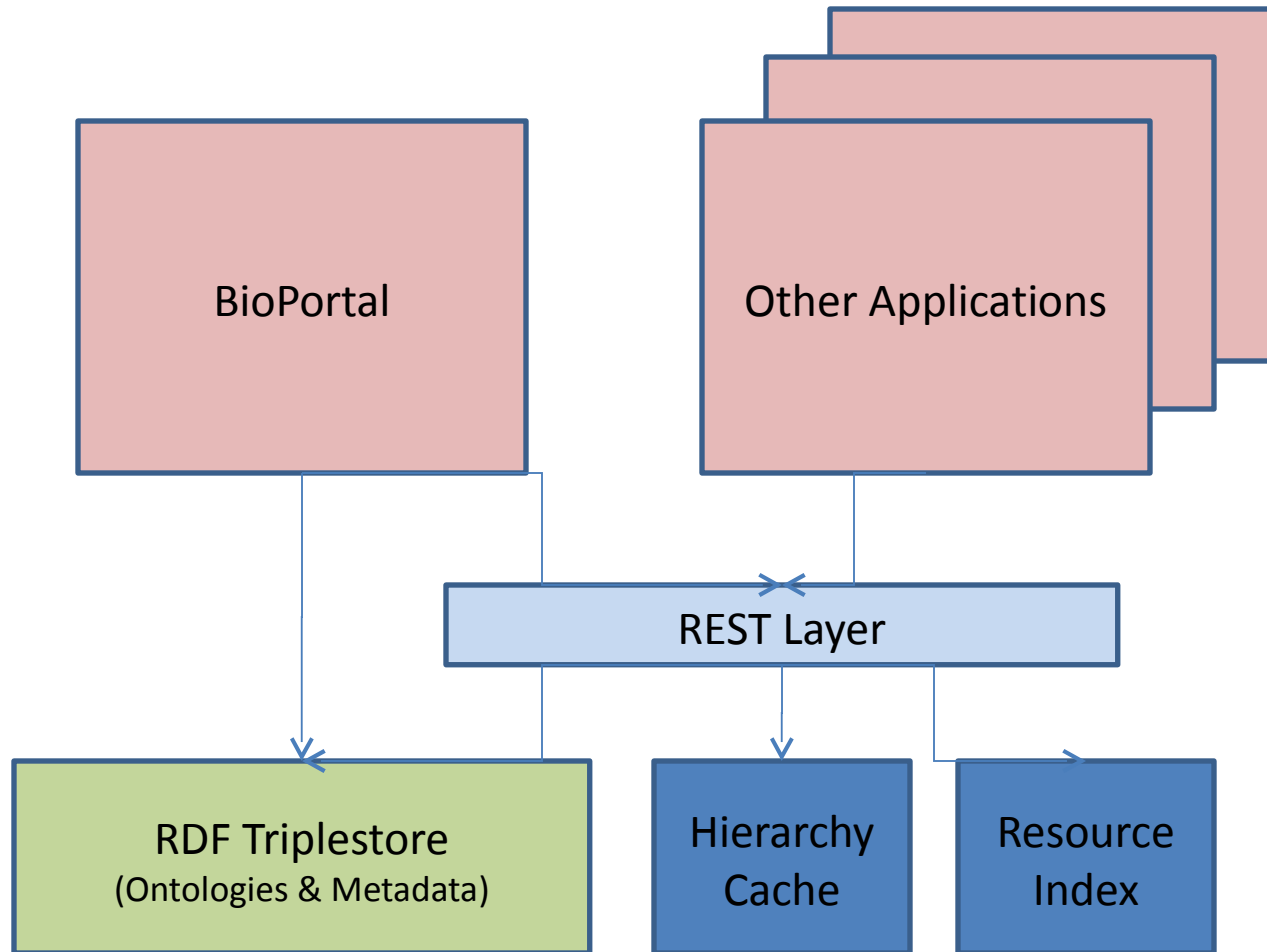


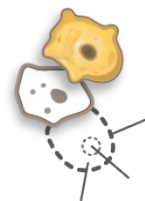
Current Architecture





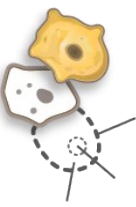
Planned Architecture





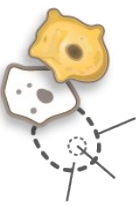
Current Development (I)

- Ontology Recommender (Done)
 - Accept a paragraph or two of text
 - Analyze its use of ontology terms
 - Recommend closely matched ontologies
- Access control for ontologies (Done)
 - Private: Submitter designates user access
 - Licensed: Submitter provides license for user acceptance
- Improved support for OWL 2 (Done)
- Support for RDF triple-store (public alpha, Q3)
- Generate automatic mappings between all terms in all ontologies (Q1)



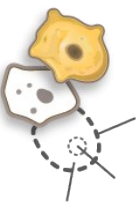
Current Development (II)

- *MyBioPortal*: limiting visible ontologies (Q1)
- Alternate entry points to limit visible ontologies (Q1)
- Improved ontology visualization (Q2)
- Removal of all usage of Flash technology (Q1)
- Allow installations to add/remove tabs (Done)
- Common Terminology Services v2 (CTS2) interface (proposed OMG standard) for BioPortal (private alpha, Q1)



Future Development

- Definite
 - Move infrastructure to cloud
 - Better integration with ontology editors
- Possible
 - UML support



No Current Plans

- *Workflows*
 - (beyond ontology status & notes)
- Common Logic
- Other file/model formats
- Rules
- Reasoning over ontologies