

# PODD Ontology Driven Database

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# Background

PODD Ontology  
Driven Database

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- PODD implemented between 2009 and 2011
- Design by Yuan Fang Li and Gavin Kennedy

# Motivation

PODD Ontology  
Driven Database

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# Example

PODD Ontology  
Driven Database

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## Interface Layer

(Restlet, Freemarker)

Object  
Services

Metadata  
Services

Publishing  
Services

Search &  
Query

## Security Layer

(Spring Security, custom authorization)

## Business Logic Layer

Object  
Management

Concept  
Management

Reasoning  
Service

## Data Access Layer

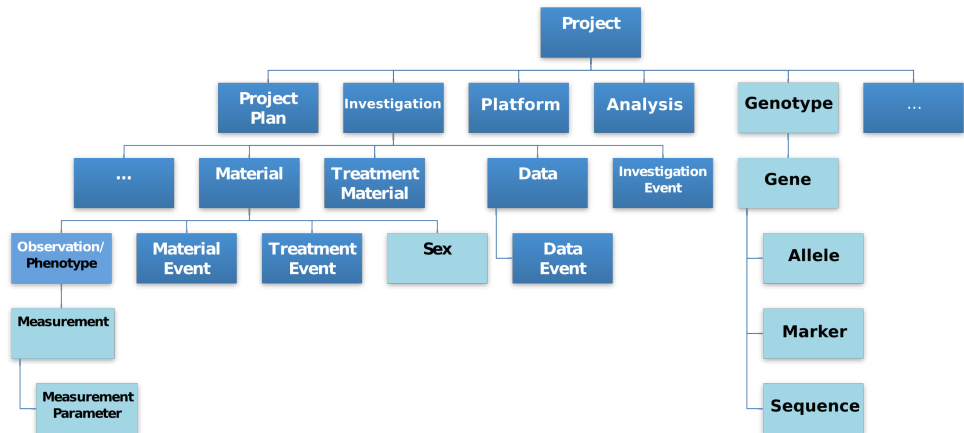
Fedora  
Commons

Sesame  
Triple  
Store

MySQL  
Database

users, roles

Lucene  
Index



# Demo

PODD Ontology  
Driven Database

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# Evaluation

PODD Ontology  
Driven Database

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Good:

- 1 Flexible : Simultaneously support different experiments
- 2 Adaptable : Additions and changes to schema ontologies

Bad:

- 1 Current implementation does not scale
- 2 Object oriented, pulling document into memory



# Next steps

PODD Ontology  
Driven Database

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# Questions

PODD Ontology  
Driven Database

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Open source code can be found online at:  
`https://github.com/podd`

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