The ELIXIR Tools and Data Services Registry

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ELIXIR Webinar #2
Feb 18, 2014 at 3pmCET = 2pmBST
“The overall purpose of the Danish ELIXIR Node on bioinformatics tool interoperability and integration is to address the main problems in tool utilisation experienced currently by the life sciences community.”

The first problem is tool discovery ...
In order to assist in this the registry must:

• be comprehensive and stay updated

• provide sufficient and **precise** information about each tool

• be easy to browse, search and update
EDAM - [http://edamontology.org/](http://edamontology.org/)
Registry - the basic structure

![Diagram showing the basic structure of the Registry]

- **VISION**
- **MODEL**
- **DATA**
- **UPKEEP**
- **INTERFACES**
Registry - the query interface

**Attributes**

- Must be in the public domain
- Protein secondary structure prediction from sequence
- Must run under Linux

**Tools and services**

- Administrativ
- Scientific
- Technical

Tools and services:
- Protein secondary structure prediction from sequence
- Must run under Linux
- Must be in the public domain
Thank you
The content resides in a relational database (MySQL)

The backend, implemented as a REST Web Service (powered by Django REST framework), exposes an API and manages all communication between the database and the frontend in AngularJS.

Efficient browsing of ontologies for searching and annotation is achieved with custom tailored widgets written in Javascript.

Programmatic access to both download and modification of the content utilising JSON and XML as interchange formats.