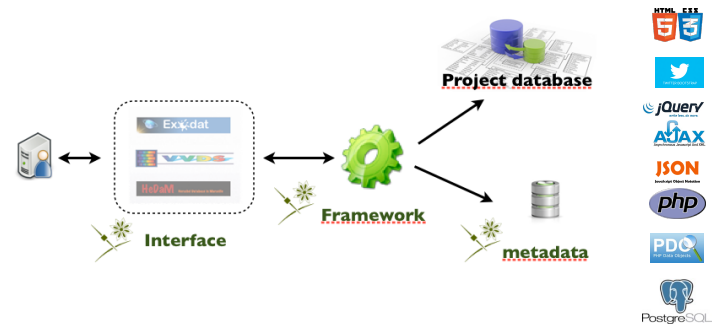


# Information System implementation through ANIS @ CeSAM

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**Abstract**  
ANIS (AstroNOMical Information System) [1] is a web generic tool developed at CeSAM [2] to facilitate and standardize the implementation of astronomical data of various kinds through private and/or public dedicated Information Systems.  
The architecture ANIS is composed of a database server which contains the project data, a web user interface template which provides high level services (search, extract and display imaging and spectroscopic data using a combination of criteria, an object list, a sql query module or a cone search interfaces), a framework composed of several packages, and a metadata database managed by a web administration entity.  
The process for implement a new ANIS instance at CeSAM is easy and fast : the scientific project has to submit data or a data secure access, the CeSAM team installs the new instance (web interface template and the metadata database), and the project administrator can configure the instance with the web ANIS-administration entity.  
Currently, the CeSAM offers through ANIS a web access to VO compliant Information Systems for different projects (HeDaM, HST-COSMOS, CFHTLS-ZPhot, ExoDAT,...).

## ANIS technical solution



## Functionalities provided by ANIS

### DATA SEARCH

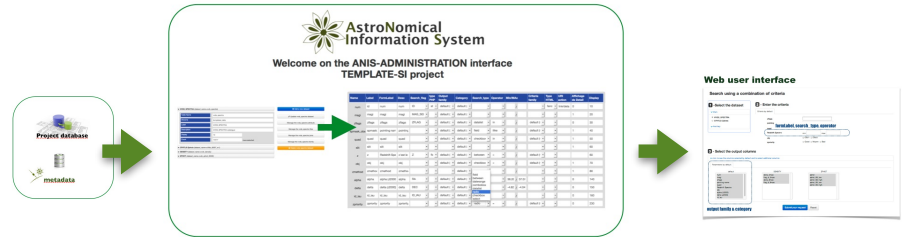
### DATA DISPLAY

## Role of ANIS-Metadata DB

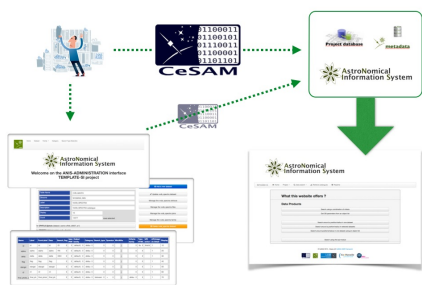
The metadata database allows to manage the user interface.  
It contains all the datasets, the metadata of their columns, all their join datasets and the associated files (readme, images, ...).

- Set the ANIS-Metadata DB, is set the user interface.  
The information system manager can insert new datasets and sets them.  
For example :
- he defines the family of the datasets, the criteria and the output parameters,
  - he selects a column in a dataset and decide if it should appear as a criterion, and selects the type of criteria (text box, combo box, check box, radio button,...).he can also decide whether this column is an output parameter.
  - he defines the action on a column in the data table result,
  - he adds the join datasets and sets them,
  - he adds the associated files : the images that are cut in the cone-search and those displayed in the detail page, the data files and readme files that can be downloaded, ...

Each update of the metadata database automatically changes the user interface.



## Easy process for implement a new ANIS instance



- The process for implement a new ANIS instance at CeSAM is easy and fast :
- the scientific project submits data to CeSAM (which then manages the storage and security of data) or provides secure access to its data.
  - CeSAM installs the new instance (web interface and database metadata model).
  - the project administrator configures the instance by using the web entity ANIS-Administration with CeSAM technical support.

## Information Systems @ CeSAM through ANIS

**Public Information Systems hosted at CeSAM**  
Cosmology, physics and evolution of galaxies

| Project      | Scientist Manager | Instrument | Photographic system | Readme and associated files | Access |
|--------------|-------------------|------------|---------------------|-----------------------------|--------|
| IRIS         | V. Buat           | UVIMAGES   |                     |                             | Public |
| MFC-COSMOS   | L. Tresse         | ACSIS      |                     |                             | Public |
| ULTRASIS     | L. Tresse         | ACSIS      |                     |                             | Public |
| CFHTLS-ZPHOT | G. Meert          | HST/ACS    |                     |                             | Public |
| HSTACS       | V. Buat           | HST/ACS    |                     |                             | Public |
| COCOSMOS     | V. Buat           | HST/ACS    |                     |                             | Public |
| NGC          | A. Beaulieu       | HST/ACS    |                     |                             | Public |
| SWIFT        | V. Buat           | SWIFT      |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |
| IRIS         | L. Tresse         | IRIS       |                     |                             | Public |

**Stars and exoplanets**

| Project | Scientist Manager | Instrument | Photographic system | Readme and associated files | Access |
|---------|-------------------|------------|---------------------|-----------------------------|--------|
| COCCAT  | W. Brand          | COCCAT     |                     |                             | Public |

**Private Information Systems hosted at CeSAM**  
Cosmology, physics and evolution of galaxies

| Project  | Scientist Manager | Instrument | Photographic system | Description | Web site |
|----------|-------------------|------------|---------------------|-------------|----------|
| DES      | A. Beaulieu       | HST/ACS    |                     |             |          |
| ULTRASIS | L. Tresse         | ULTRASIS   |                     |             |          |
| COCCAT   | L. Tresse         | ULTRASIS   |                     |             |          |
| IRIS     | C. Agneray        | IRIS       |                     |             |          |

**REFERENCES & ACCESS**

[1] ANIS ADASS XXIII, poster #073  
[2] CeSAM ADASS XX, poster #013

TOPCAT : <http://www.star.bristol.ac.uk/~mbt/topcat/>  
ANIS : <http://cesam.lam.fr/anis>  
CeSAM data : <http://cesam.lam.fr/cesamdata>