The ALICE Glance Membership Management System

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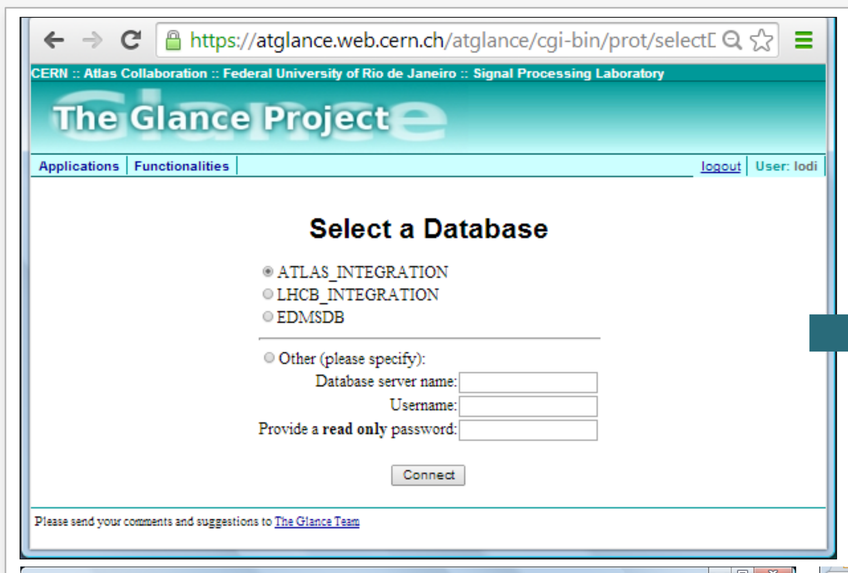
The ALICE Experiment collaboration

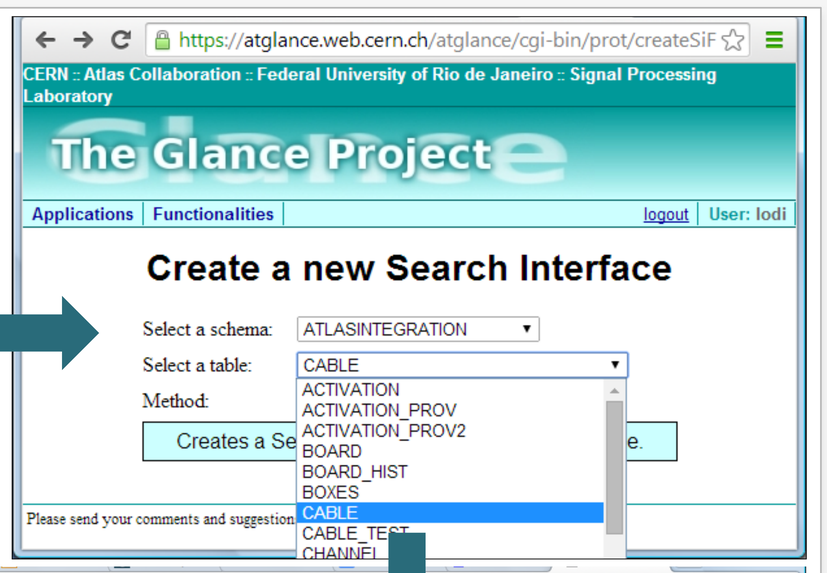
ALICE (A Large Ion Collider Experiment) is an experiment at the **CERN LHC** (Large Hadron Collider) studying the physics of strongly interacting matter and the quark-gluon plasma.

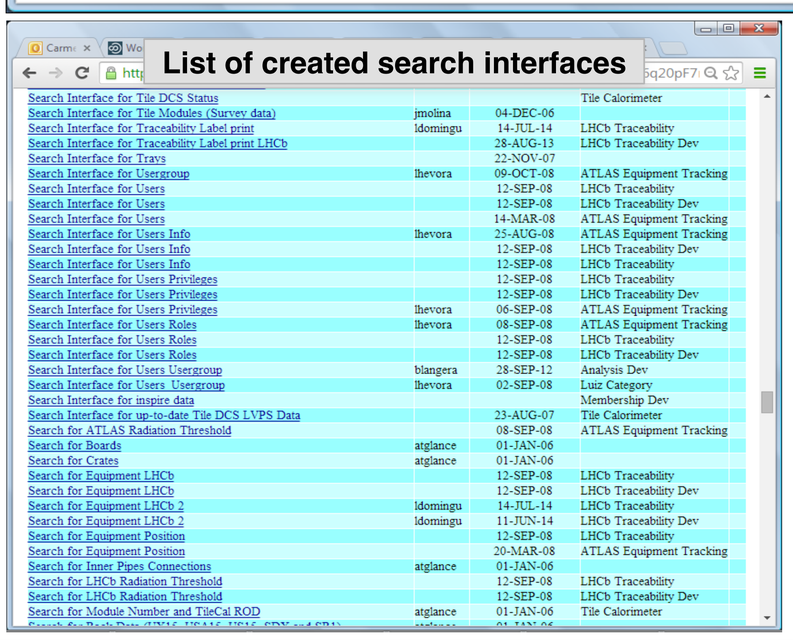
The ALICE collaboration in numbers:

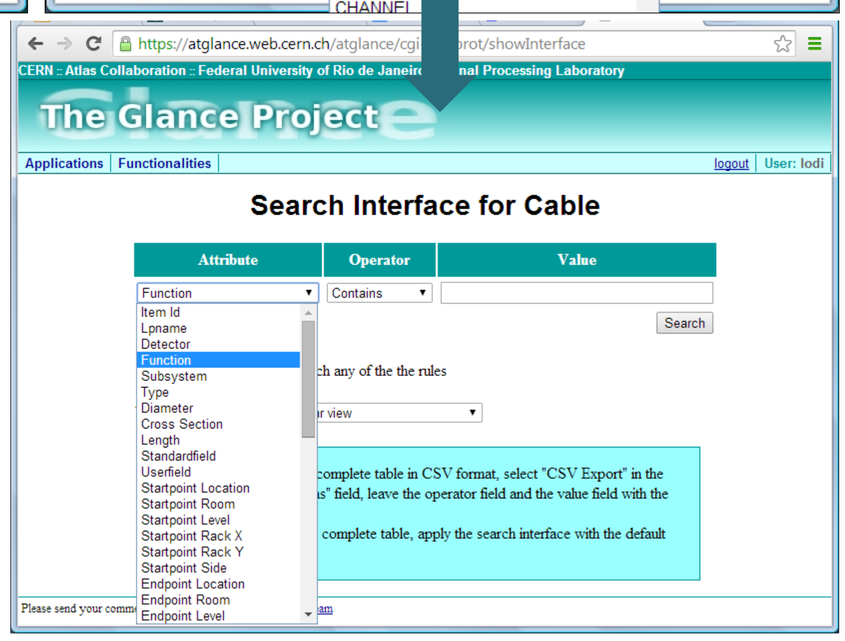
- **More than 1500 members**
- **148 institutes**
- **39 countries**

A dynamic and flexible system is needed to manage the information about the ALICE members.









The GLANCE project

Result of a fruitful joint effort between UFRJ (Federal University of Rio de Janeiro) and the ALICE Collaboration.

The Glance technology, developed by the UFRJ and the ATLAS experiment, provides a generic mechanism for accessing any database, acts as an intermediate layer isolating the user from the particularities of each repository.

It allows the developer to create search interfaces in some clicks.

- C++ and CGI
- OCCI (Oracle C++ Client Interface) for DB connection
- Apache Xerces-C++ for XML parsing
- GNU CgiCC for CGI parsing

The ALICE GLANCE membership application

The developed Web system manages:

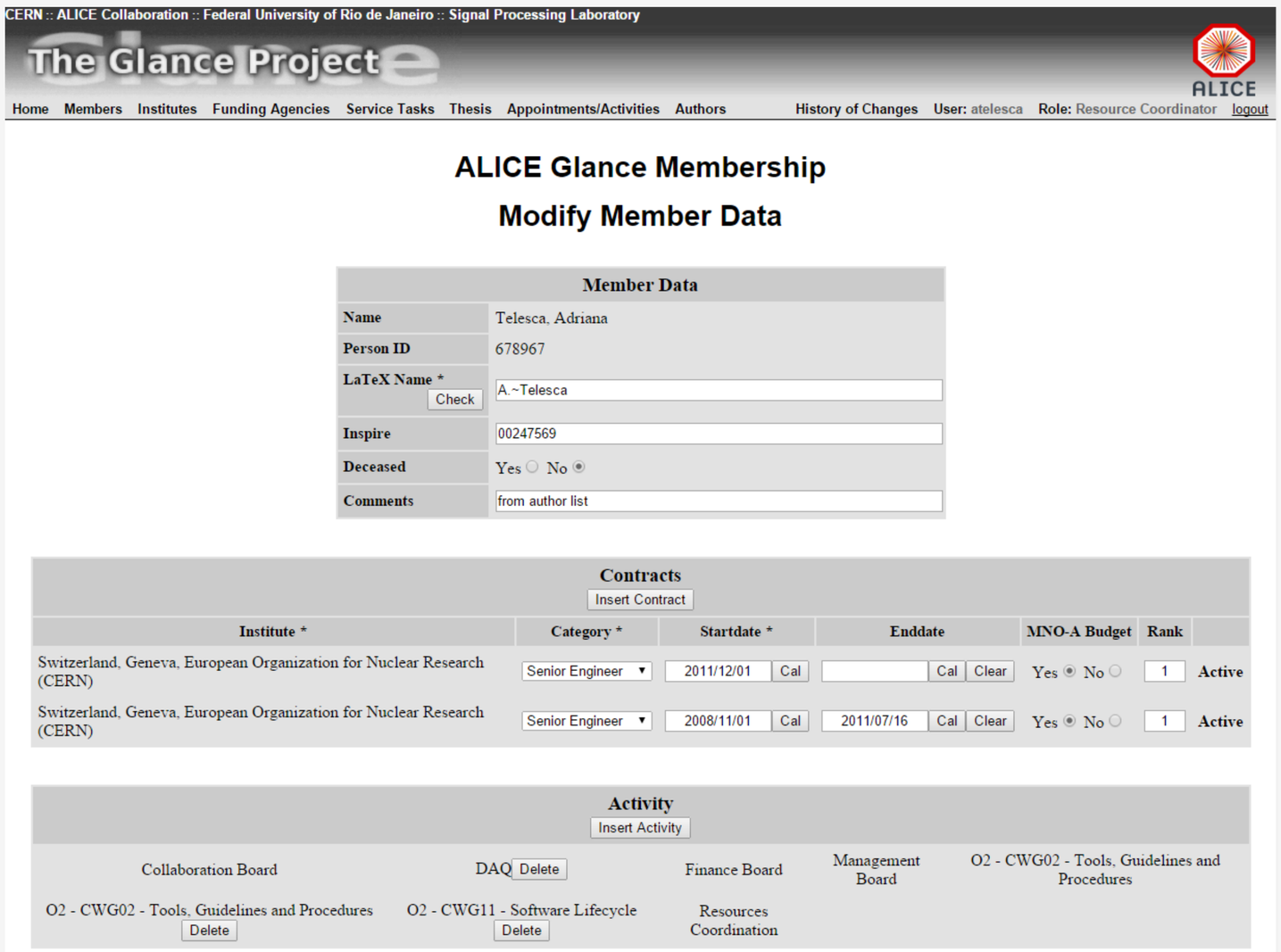
- Members data and their employments contracts.
- Activities and appointments.
- Funding agencies information, agreements and representatives.

This information is essential to:

- Give access to ALICE members.
- Create mailing lists, electronic groups and automatic notifications.
- Generate the list of publication authors.

The ALICE Glance Membership interacts with external software such as the CERN Foundation database and the Greybook.

The system allows institute leaders to directly manage their team and members to access their own information, enabling a dynamic collaboration network through the Web.



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