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The ATLAS Metadata Interface (AMI), a generic metadata framework



The ATLAS Metadata Interface (AMI) is a mature application of more than 15 years of existence. Mainly used by the ATLAS experiment at CERN, it consists of a very generic tool ecosystem for metadata aggregation and cataloguing.

What is AMI?

AMI is a generic framework to quickly design **metadata-oriented** applications. It provides facilities for aggregating and searching data with easy-to-use web interfaces and lightweight clients.

AMI Web framework

AMI provides a Web 2.0 framework.

Technologies:

- HTML5, CSS3
- JavaScript, jQuery
- Twitter Bootstrap



Main features:

- **Components**
- **Applications and sub-applications**
- **Model-View-Controller (MVC) pattern**
 - ✓ AMI commands (model)
 - ✓ Twig engine (view)
- Internal **Content Management System (CMS)**

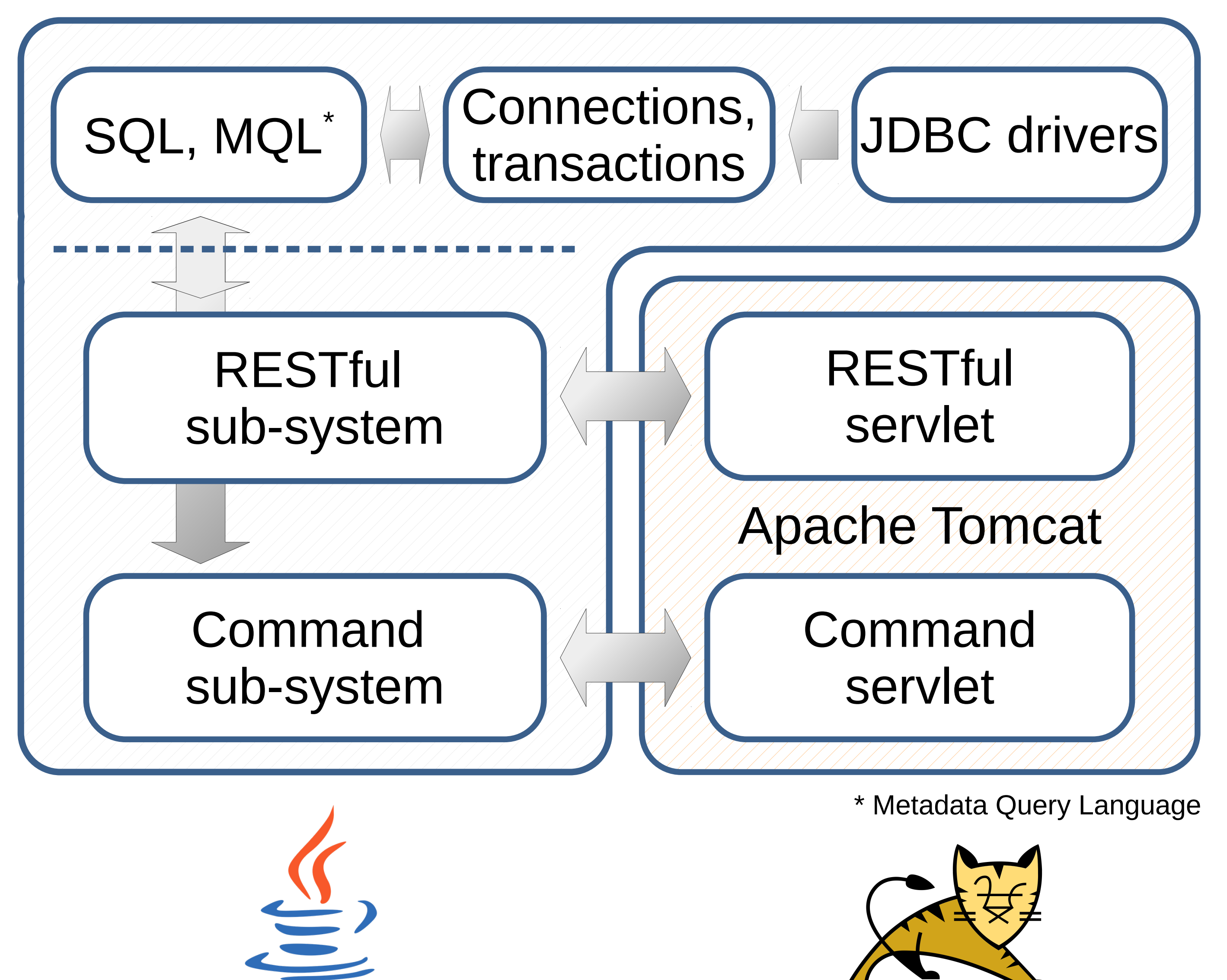
Main applications

- Advanced data display
- Customizable search engines:
 - ✓ Google-like search, hierarchical search
- Administration dashboard:
 - ✓ Users, commands, roles, tasks, infrastructure (cloud, Jenkins), monitoring

Official ATLAS applications

- **Dataset Discovery**: search for real and simulated data
- **Tag Collector**: software release management
- **AMI-Tags**: processing history for datasets
- ...

AMI Java framework



AMI Infrastructure

