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** and 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

**AMI Java framework**

- **SQL, MQL**
- **Connections, transactions**
- **JDBC drivers**

- **RESTful sub-system**
- **Command sub-system**

- **Apache Tomcat**

- **Metadata Query Language**

**AMI databases**

- **AMI Web**
- **AMI Web framework** (HTML5/JavaScript)
- **AMI Web**
- **AMI tasks**

To optimize availability and reliability

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