

## **Equipment Data Base for the big data measurements**

### **Purpose and objectives of the project**

EqDb (Equipment Database) is intended to support MPD equipment's construction, assembly, and operation and be used as a backbone for detector slow control system and SCADA. It can also be used as a calibration database for the detector. It is a highly flexible solution, based on generic (definable, metadata-driven) data structures and applications, easily customizable to support practically any complex equipment. Though conceptually object-oriented, EqDb is implemented using a proven, highly scalable Oracle relational database.

### **Tasks for students:**

- a. Conception of the algorithm (e.g., Flow Chart Maker)
- b. Connection to the database (e.g., SQL)
- c. Programming the algorithm for the database (e.g., SQL)
- d. Preparation of the documentation (e.g., Word)

### **Note:**

To better understand the project, check other projects that this supervisor offers to students.

It is possible to continue cooperation, for example, in the form of an engineering or a master's thesis and further scientific contacts.