ABSTRACT

Data is an important asset that have high value to all company or organizations especially in the enterprise scale. As an important assets, data need to be managed well using a Data Governance that can be used to managing the governance in a data. One of the element of Data Governance is Metadata. Metadata can identify the structure, element, and the rules of data available, hence metadata really needed for sustainability, interpretation, reuse of a data, and a process to documenting data.

To store and managing a data, database is needed which has a structure of tables and particular columns according to business needs. The structures according to business can be called as a business rules. An enterprise that has many roles and divisions called company unit need a business rules in the structures of the tables and its column in the database to make it easier for creating new table which has a guideline from previously created table in other company unit.

This application development is a follow-up study from previous web based application about data management using Laravel web framework that have Master Data Management and Data Quality Management module and this research want to add new metadata module with the result in the form of feature that integrating metadata from various databases to an application so that the metadata from a tables of various databases in one company can be found in one centralized application and distribute it and using simple operational dashboard to monitor the distribution from the metadata used by user so that metadata used in a company clearly monitored so that it can minimize of data leaks .

Metadata Management module created works well that known from two different evaluation method. Method used on this research are functional testing for the functional of the application and expert judgement for application feature assessment by an expert. On this functional testing method, the result of the application created is suitable with company needs according to the feature and on the expert judgement method, the result of the application created got an appropriate assessment score by some expert that has knowledge, experience, and expertise in data management field.

Keywords— metadata, business rules, open source tools