

ABSTRACT

The Faculty of Industrial Engineering is one of the seven faculties at Telkom University. The Faculty of Industrial Engineering has 23 laboratories to carry out practicum activities or lectures. With so many laboratories in the Faculty of Industrial Engineering, each laboratory needs assets that can support lectures or practicums. In the existing conditions, there are several assets that are not maintained, and many assets whose age is unknown which makes some assets not getting proper handling. For this reason, this final project aims to design an asset management information system (MIS) for the faculty of industrial engineering laboratory for monitoring, recording, reporting, and tracking asset web-based that can be accessed in real time.

The industrial engineering faculty laboratory asset management information system is designed using the agile scrum method. Scrum is one of several agile methods. The system development process using the scrum method is divided into several stages, namely product backlog, sprint planning, sprint backlog, sprint execution, sprint review and sprint retrospective. The system that has been developed will then be tested for functionality with black box testing and user acceptance test (UAT) on the features contained in the system.

After the test was carried out, the results of the black box testing were successful and the results of the UAT were 83.75%. This final project produces an industrial engineering faculty laboratory asset management information system that has benefits for monitoring, investing, borrowing, distributing, and reporting assets. This system has 4 levels of user access rights, namely laboratory assistant, borrower, Head of faculty of industrial engineering laboratories and logistics, each with access rights levels, can manage data according to access rights levels.

Keywords: *Agile, Assets, Scrum, Management Information System, Web*