

ABSTRACT

Asset maintenance management in the laboratory of the Faculty of Industrial Engineering is managed by the Laboratory supervised by the Vice Dean II together with the Head of the Department. Laboratory. Asset management activities are still difficult to carry out, this is caused by various root problems, ranging from people, equipment, to information. The large number of assets, uncertain status, and different types of maintenance for each asset in the laboratory room make asset management a complex problem. Therefore, in this final project, an asset maintenance management information system based on Radio Frequency Identification (RFID) was designed.

The system is designed using the Rapid Application Development (RAD) method. The design of the system using the RAD method is carried out in three basic stages, first identifying the system specifications. Second, system creation and system testing in several iterations. Third, implement the system that has been created. The design of the system has useful features to help stakeholders maintain assets. Some of the features in the design of this system include a dashboard for each stakeholder, asset data, asset repair logs, asset search using Unique Identifier (UID), asset maintenance bulk, tiered filters, and master data that can be adjusted according to the state of the maintenance system.

The benefit obtained from the use of this system is the ease of asset maintenance for several stakeholders, namely the Vice Dean II, Ka. your. Laboratory, and Laboratory. The results of this final project provide a conclusion in the form of designing an asset maintenance management information system that is successfully designed and in accordance with user needs. This is evidenced by the overall average score of the User Acceptance Test (UAT) of 82% from 100%.

Keywords – [Asset, Information, Maintenance, Management, RFID]