ABSTRACT

The implementation of practical work and community service courses over a long period of time generates a large and complex amount of data. The main challenge is to sort and process this data into useful information. The monitoring process is constrained by the amount of information and the information is scattered in various parts, currently the dashboard only uses spreadsheets / excel which experiences several obstacles, namely, frequent errors when updating data, the need to create a new dashboard every period, and the limit on the amount of data around 500-600 causes there to be two versions of the dashboard. In addition, the reporting process is still done manually using spreadsheets/excel. Business intelligence, through tools such as dashboards, can manage this information more efficiently, incorporating concepts such as the balanced scorecard to provide valuable information to stakeholders. The iterative incremental software development model incorporates elements of the waterfall in an iterative manner. In addition, each linear sequence results in a deliverable software upgrade. From the results of the research that has been done, there are two conclusions that can be drawn. First, the dashboard that has been developed can be a solution in supporting monitoring process. Second, the results of testing with scenario testing show the consistency of application data, confirming the reliability and relevance of the information presented. In addition, the results of user accepatance testing also show a user acceptance index of 98% which means that the application that has been developed is acceptable and has met the needs of users.

Keywords: **Web Application, Dashboard, Iterative Incremental**