

ABSTRACT

The Ar-Rafi Entrepreneurship Education Foundation aims to build the value and attitude of entrepreneurship of the young generation through vocational education, since all founders are educational in vocational schools. The mission of Ar-Rafi Elementary School is to organize broad-based education that is oriented to life skills, learning to learn, personal skills, social skills, academic skills, and the development of innovation and creativity through self-directed learning process with thematic pattern, based on informatics and communication technology. Based on the results of interviews from the Ar-rafi primary school, the scheduling system for the Ar-rafi primary school laboratory is unscheduled and scheduled and the equipment borrowed in the laboratory and the period of use of equipment is not listed in detail. This may result in the same schedule for different activities at one time and not periodically reported on the activities in the laboratory. In addition, the lack of equipment monitoring and the lifetime of the equipment is a matter that must be improved in the management of the laboratory. That is why there is no performance assessment in the laboratory. With the existence of such problem, then needed an Application of Ar-rafi Laboratory Management. This application is web-based and can be used by the school for laboratory data management, laboratory performance appraisal data and periodic reports. With the Application of Laboratory Management Ar-rafi expected in the management of laboratories to be better and in accordance with needs. This application is created using waterfall working method, CodeIgniter framework with php programming language. MySQL is used as database server and black box testing for application testing.

Keywords: Management Laboratory application, waterfall, CodeIgniter, MySql.