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Model of Forum Islamic Boarding Schools Application Based on Enterprise System

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Model of Forum Islamic Boarding Schools Application Based on Enterprise System

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Abstract. The purpose of this study is to show the design model's application of a system-based on Forum Islamic Boarding School to integrate all related functions. The research used descriptive and explanatory research methods, while the type of data taken by conducting interviews and observations with the Forum Islamic Boarding School. Secondary data is taken from the theories available in journals, e-books, proceedings, and slide presentations on the results of seminars and government policies. The results of the study is to make islamic boarding schools application as a tool for develop themselves, introduced to the use of technology and become an institution that lead Pesantren towards Modern Islamic Boarding Schools. So that the Forum Islamic Boarding Schools and Islamic Boarding Schools be able to survive in the era of Industrial Revolution 4.0 and also to contribute in the Sustainable Development Goals (SDGs).

1. Introduction

Islamic boarding schools are one of the places taught by the *Akhlaqul Karimah* Rosulullah ﷺ, which are not concentrated taught in other formal schools. However, the condition of the islamic boarding school is now begin to lose confidence in the community, Islamic Boarding School are considered to have an old-fashioned and classic education system and effected to studens public perception. The National Santri Day (HSN) which was inaugurated by President Joko Widodo since 2015 and commemorated every October 22 has indeed had a tremendous impact to increase the interest of Islamic Boarding Schools[1], but that has not completely changed the views of society as a whole because the islamic boarding school have increased their interest, they also improve the quality of education and infrastructure[2], the fact that Islamic boarding schools have strict rules is still a matter of thought for parents to enter their children[3]. However, the conditions at the Forum Islamic Boarding Schools field itself have not utilized the tecnology infromation and becomes an obstacle in interacting and conveying information to Islamic boarding schools. Based on this phenomenon, the researcher tried to make an enterprise system based application considering that this application can integrate the procedures in the Forum Islamic Boarding School into a single system to be able to survive in the era of the Industrial Revolution 4.0 and also to contribute in the Sustainable Development Goals (SDGs).

Enterprise systems display a series of integrated software modules and a centralized database that allows data to be shared by many different business processes and functional areas throughout the company[4]. The goal of an enterprise system is to help companies streamline their business processes. In developing or



adopting an enterprise system, there are two major factors that must be considered: technology and business itself[5]. According to Soja, enterprise systems (ES) include mechanisms, based on planning and forecasting, which support the management of the entire enterprise and integrate all of its activities[6]. Companies implement enterprise information systems to support business processes, such as supply chain management, customer relationship management, and procurement, and to restructure interactions between groups of employees and business partners[7]. A uniformly implemented enterprise system can facilitate standardization of processes and management needs for concentrating all information into one real-time system[8]. Benefits from such systems come from integration, process optimization, and improved access to information, although such benefits do not always eventuate[9].

The purpose of this study is to show the design model of the application of an enterprise system-based Islamic boarding school forum to integrate all related functions. The research method used by the researcher is descriptive and explanatory research methods in order to understand the activities carried out by the Pesantren in the description of the running system and the application design model for the proposed system. The types of data taken are primary data by conducting interviews and observations with the Boarding School Forum as an institution that is engaged in the supervision and development of Islamic boarding schools and will be sampled in making this application. Secondary data is taken from the theories contained in journals, e-books, proceedings, and slide presentations on the results of seminars and government policies.

The results of the study were to make business architecture and use case diagram for the Pondok Pesantren Forum application effective as a tool for the Boarding School Forum to develop themselves, open up to technology and become an institution that made Islamic boarding schools towards modern Pesantren that could provide public trust in entrusting their children to boarding schools. So that the Forum Islamic Boarding Schools and Islamic Boarding Schools themselves can survive in the era of the Industrial Revolution 4.0 and in the future to be able to contribute to the Sustainable Development Goals (SDGs).

2. Method

The method used in this study is a qualitative method by describing the conditions of the Boarding School Forum in West Java Province. The object of research in this study is the design of a forum model for boarding schools based on enterprise systems. Data were collected by interview with the Chairperson of the Forum Islamic Boarding School in West Java and primary data used were documents / records from the Forum Islamic Boarding School in West Java, while secondary data came from literary journals, books and government regulations.

3. Results and discussion

Companies implement enterprise information systems to support business processes, such as supply chain management, customer relationship management, and procurement, and to restructure interactions between groups of employees and business partners. One of the most important classes in enterprise systems is a company resource planning system (ERP system)[10]. The enterprise information systems has been implemented or adopted by many companies to achieve excellence in managing performance and supporting decision making over the past few decades[11]. Business processes supported by enterprise systems, namely financial and accounting processes, human resource processes, manufacturing and production processes and sales and marketing processes [4].

Next is the business architecture and system model use case diagram for the Forum Islamic Boarding school Application (see Figures 1 and 2):

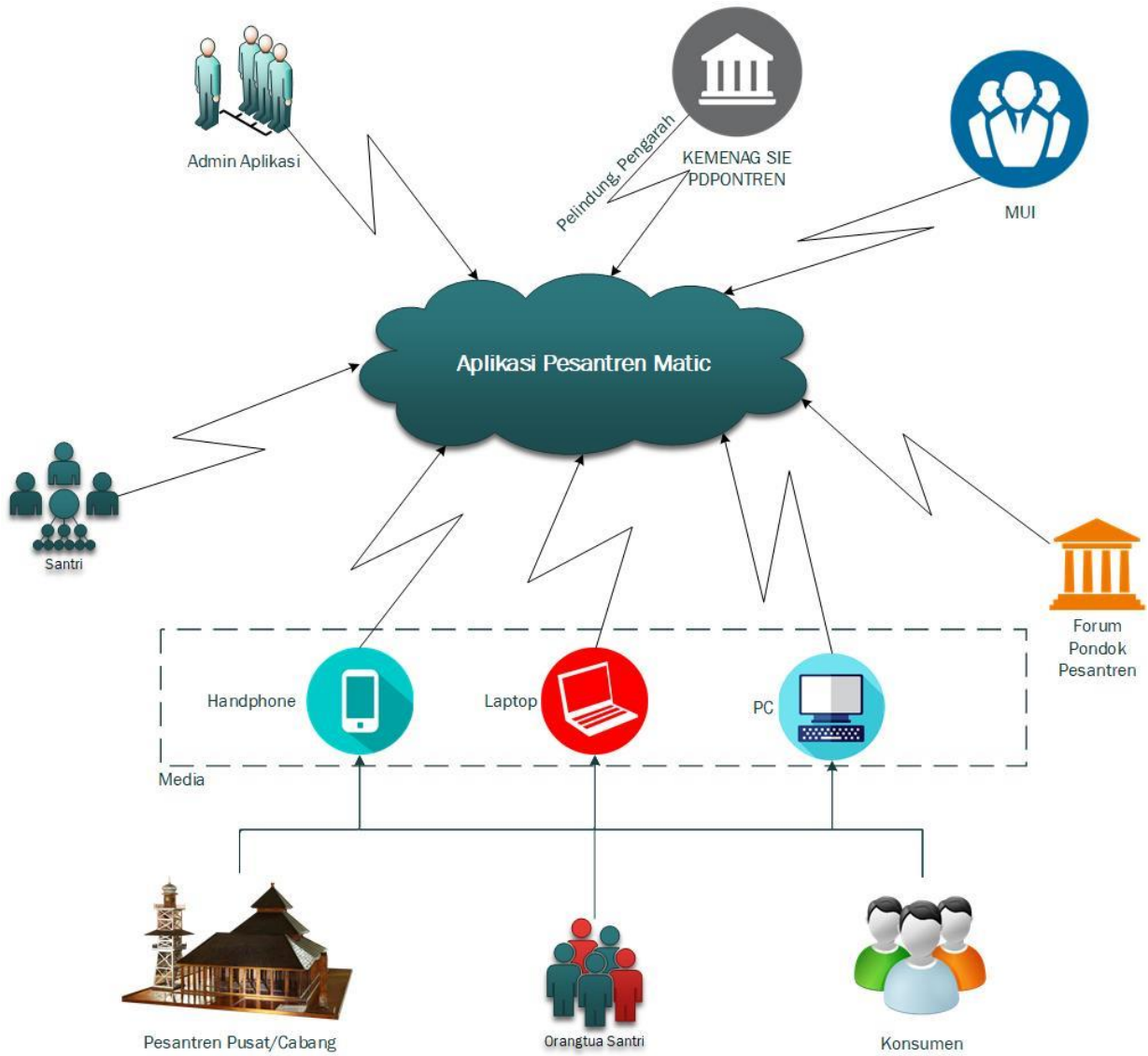


Figure 1. Business Architecture

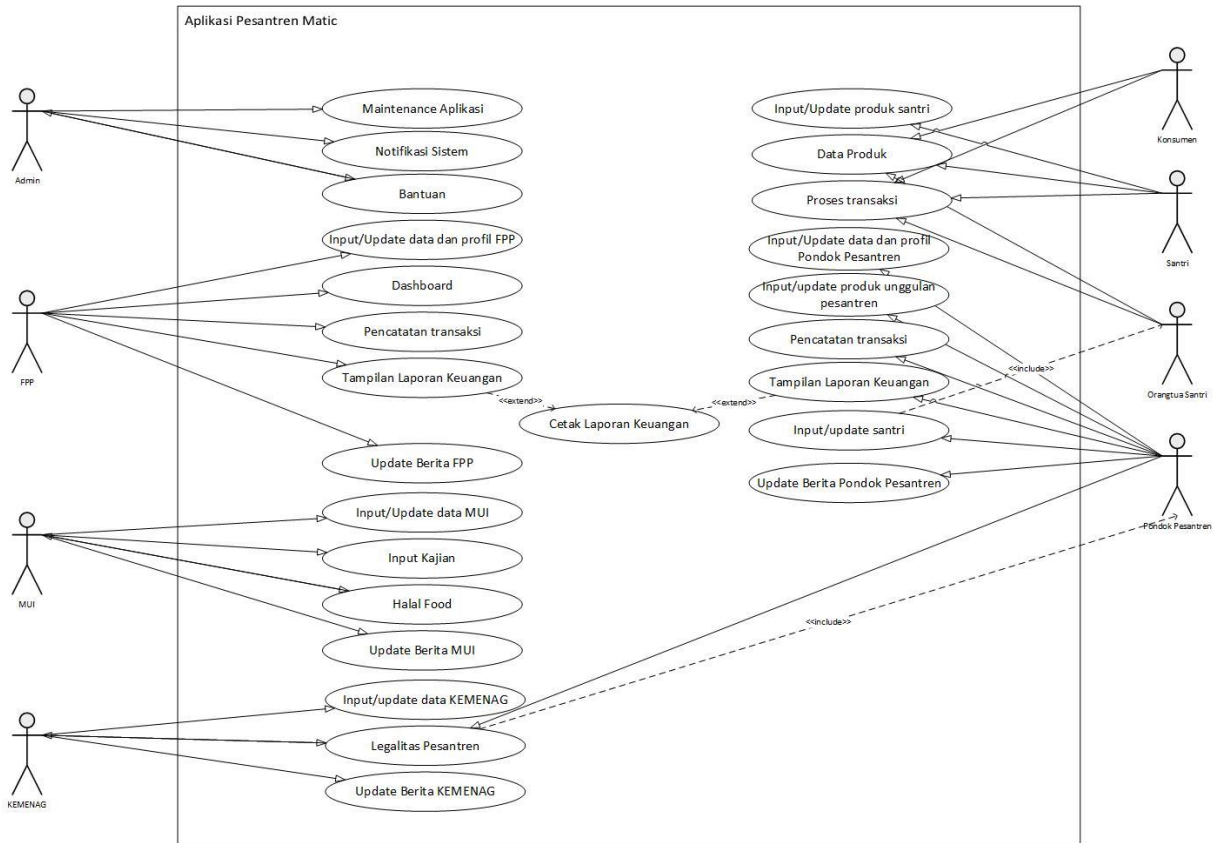


Figure 2. Use case diagram

4. Conclusion

The design of the Forum Islamic Boarding School application model can be a tool to answer the obstacles that arise during the implementation of the Forum Islamic Boarding School programs. The role of the Forum Islamic Boarding School is maximally expected to be able to make a good, healthy and independent education environment for Islamic boarding schools and able to become islamic boarding schools that excel in IMTAK (Faith and Faith) and Science and Technology (Science and Technology). The results of the study were to make business architecture and use case diagram for the Forum Islamic Boarding School application effective as a tool for the Boarding School Forum to develop themselves, open up to technology and become an institution that made Islamic boarding schools towards modern pesantren that could provide public trust in entrusting their children to boarding schools. So that the Forum of Islamic Boarding Schools and Islamic Boarding Schools themselves can survive in the era of the Industrial Revolution 4.0 and in the future to be able to contribute to the Sustainable Development Goals (SDGs).

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