

DEVELOPMENT OF AN ANDROID APPLICATION FOR IOT-BASED RICE STOCK MONITORING

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ABSTRACT

Indonesia has an important role, especially in the agricultural sector. The agricultural sector also has a role in supporting the development of the social sector, economic sector and trade. One of the products from the agricultural sector is rice. Rice is one of the things that must be present at home, because in Indonesia itself rice is the most important staple food. Because it is a basic need, rice owners must monitor their rice stock so that it is always sufficient. However, to find out the rice stock, the rice owner must see it in person. This of course takes time if the rice owner is not at home. To solve this problem, an Android-based system is needed that is able to provide information about rice stocks that can be accessed anytime and anywhere by applying IoT (Internet of Things) technology. The system that will be built will have a storage area that can provide information about the amount of basic materials available. Therefore, it is hoped that the IoT devices and Android-based applications that will be created will help rice owners, so that they no longer have difficulty monitoring their rice stocks, because this information can be accessed via applications on smartphones anytime and anywhere.

Keywords: *Android, Load Cell Sensor, NodeMCU ESP8266, Monitoring System, Internet of Things*