Rancang Bangun Aplikasi Android Untuk Pendeteksi Kebocoran Gas

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ABSTRACT

The development of technology is something that makes it easier for people to provide benefits for their users. Technology that is developing rapidly is IoT (Internet of Things) where this technology has a concept that can communicate with devices equipped with various types of sensors connected to the internet. Monitoring the condition of gas cylinders is very important for its users, often encountering unwanted things such as LPG gas explosions to fires resulting from the negligence of users who do not know the condition of the gas cylinders used. Therefore, an android application is needed to detect gas leaks that can be monitored in the application, to determine the status of the gas cylinder, two types of sensors are needed, namely MQ-6 and LoadCell which function to determine the condition of the gas cylinder used. In the android application there are various types of features, namely gas status, cylinder weight, history and graphs, each feature in this application has its function, first on gas status it functions to determine gas conditions which can be known from the MQ-6 sensor, secondly cylinder weight functions to determine the weight of the gas cylinder used is obtained from the LoadCell sensor so that the user knows the rest of the gas cylinder, thirdly there is a history that functions to store notification data obtained from gas status and the remaining weight on the cylinder, and fourthly, a graph that functions to find out the condition of the rest of the tube is updated every day.

Keywords: Design, Android application, Monitoring, Internet.