

## ABSTRACT

Kitchen users often forget with the utmost thoroughness of cooking in the kitchen such as lpg and water gallons. It is so trivial but it can lead to stunted the process management of food as a basic requirement. It needs technology that can help in the use of the kitchen to monitor the completeness in cooking.

Based on the above issues, at the end of this project, there will be a designed system that utilizes the technology of Internet of Things, namely a system of monitoring the capacity use of lpg and water gallon in Smart Kitchen based on Internet of Things that can be accessed by the user through an Android application that is connected to the internet. In making this final project, the monitoring capacity use of lpg and water gallons is measured by the weight of the object itself. So it's used a weight sensor (load cell) to detect the weight of lpg and water gallon which are then connected to a microcontroller as the control center, the results of the data on the microcontroller enter the last database and data can be accessed on android applications that are already connected to the internet, which is where users can find out and access the system regardless of where the users is located.

From the results of the research that has been done, at the time of testing there was an error in data accuracy and delivery delay. The error in testing the sensor accuracy of LPG is 2.0925% and water gallon is 8.33%. The average total delay in sending data from the hardware to the database is 3.51 seconds and the average total delay in sending data from the database to the application is 0.70 seconds.

Keyword: Internet of Things, Android, LPG and water gallon