RANCANG BANGUN *SMART CABINET* UNTUK MONITORING BAHAN MAKANAN MENGGUNAKAN ARDUINO BERBASIS ANDROID
(DESIGN OF THE SMART CABINET FOR MONITORING FOODSTUFFS USING ARDUINO BASED ON ANDROID)

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ABSTRACT

In daily life, the groceries are very important to make food for every human. Every human always use groceries to make food because without groceries humans cannot make food. Every human ignores stock of groceries at home and in food stalls, so that stock of groceries becomes irregular. Thus, we need cupboard to keep groceries and monitoring to be able knows the groceries are depleted or are still available. From the thoughts then created Smart Cabinet to monitoring groceries to be able know are depleted or still available. This tool to make it easier groceries which still available and knowing the amount of groceries (gr). This tool combines hardware and software namely Arduino Uno R3 as main control. Pressure sensor Force Sensitive Resistor(FSR) as the calculation or weight groceries which still there in the cupboard. This tool also will be connected on Smartphone Android by Ethernet shieldthat will display information about how many groceries are still there in the cupboard. The purpose of the creation of this tool is expected to help in problem solving that is present in daily life. Especially for the food stall or restaurants that don't have cupboards for storage of groceries. The existence of this tool can facilitate users on controlling stock groceries though Smartphone without timeconsuming nor interfere with the daily routine.

Keywords: Smart Cabinet, Arduino Uno, Android