ABSTRACT

In the case of special household chores in hanging clothes, a career woman can not pick up clothes if it rains because she is at home. Change the clothes that have been dried in the sun again. However, if the place of clothes drying there is a canopy may be more lighten the mother's work. Canopy is a kind of roof that is made to protect the outside of the house and some buildings. Along, with the development of technology many innovation tools are made to facilitate human work, such as microcontroller and internet.

One of them is automatic canopy. Where the automatic canopy will open if the weather conditions are hot and will be closed if the cloudy or rainy conditions and the automatic canopy will light up according to the SMS. Automatic canopy can also monitor the weather while the clothes are being sun-dried with the test results of the sensor disconnected using fuzzy logic. The data is then sent to the platform for later in android applications as weather monitoring.

From the test results can be concluded that the function of Automatic Canopy applications and canopy notifications open / closed via SMS can run 100% well. Delay for download process data averaging of 0.676 seconds and SMS notification delay approximately equal to 30 seconds. Internet network is very influential in the process of downloading data to the platform. SMS providers also rely heavily on how fast the provider processes the SMS.

Keywords: Android, Sensor, SMS, Automatic Canopy