INTERNET OF THING BASED FOR MONITORING BASE STATION LOCATION

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ABSTRACT

Nowadays, most people own at least one android smartphone. This has shown that most people are following the latest trend in daily life. An android smartphone can be the most useful tools and assist us in daily life work. There are thousands of apps in a smartphone that can be used to do any work related. A smartphone also known as mobile phone or often called as cell phone because of the structure of the wireless networks in which mobile phone operate. The network is divided into cells where each phone is connected to exactly one cell at any given time. Each cell is operated by a cell towers on which wireless transceiver base station. A base station is one of the important components in communication system. Without it, the transmission of the signal system cannot work, and we cannot use our smartphone to do job. An organization will be assigned to install the base station by the Malaysian Communications and Multimedia Commission. Usually they will install the base station referred to the location of the installed base station. The number of base stations in one region can determine the strength of signal in that area. The more base station in one area, the stronger the signal provided. But it can increase the rate of interference of the signal if the base station is located too near to each other. If the base station located too far from each other, the wireless signal transmit from a cell phone in that region would be not strong enough to bypass the signal to other cell phone through the base station. Hence, a method of developing an android apps is introduced in this project to display the location of base station that has been installed before in a region to help the person who install the base station to know the exact location of the base station before they install the new one. The app is created using Android Studio software which is a free source to develop an android app. This technique is easy to use because user do not have to move around to find the location to install the new base station. This technique also did not need high cost to be implemented. The result from this technique will shows the location of the base station and display them in google maps. In this project, I have chosen to show the location of base station in certain region in Kuala Lumpur.

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