Abstract

Because of the advancement of technology these day, house can be made to be smarter by using some sensors and microcontrollers that arranged into Internet of Things (IoT) device. Houses that embedded with IoT to become smarter can give safe feeling to the owner, because the owner can monitor the house remotely. Speaking about security issues, the entrance of the house becomes one of the most important places to be kept safe. In addition to the enterance, electrical controls in each plug are also required to avoid short circuit. Besides electricity, water is also one that can make the owner anxious about the state of the house. If one of the water faucets is forgot to be closed when the owner leaves the house, it will cause a waste of water. Besides the entrance, electricity, and water, there is one thing that also important, that is clothesline. If the owner hang the clothe on clothesline, then suddenly rain when the owner leave the house, then it needs a device that can prevent the clothes becomes very wet due to rain. To improve the accuracy for deciding the rain or not, then it's needed a method that can predict it, one of these method is KNN, with parameters of temperature and humidity.

From the various things that are described above, then there are some things that can be made to make the house smarter. The tools are door, power outlets, water faucets, and smart clothesline. The media to control and monitor those four tools is the web via Internet.

Keywords*: smart house, IoT, web, door, power outlets, water faucets, clothesline*