

ABSTRACT

At present, there are still many uses of household electronic equipment using manual switches for operation. Switch products that are often used are still buttons that must be pressed to operate them. In general, the arrangement of switches for electrical equipment in a room is different from other rooms, so it is less efficient because you have to move around the room to press the switch. This has become commonplace for people who are healthy and free to do it. However, what about people who have limitations due to paralysis of their legs so that they cannot get out of bed. In addition, if homeowners are away, they cannot control the electronic devices in the home, leaving routine household tasks such as turning the lights on and off.

From the case above, a system is needed that can control household appliances without having to go to a switch in every room and can be controlled remotely using the Internet of Things (IoT) concept. Smart home is a part of IoT where a house is embedded with technology such as software and sensors with the aim of controlling, connecting and exchanging data through other devices as long as it is still connected to the internet. The focus of this system is on the voice command section which can receive Indonesian voice commands.

This study uses Voice commands that are created using the voice recognition function on the MIT app inventor. From the results of testing this system can be given voice commands using Indonesian and shows a 100% success rate after testing 10 different voice samples. Distance testing on this system has a 100% success rate after being tested at 6 locations with different distances.

Keywords : IoT, Smart home, Voice Command.