

ABSTRACT

Coronavirus is a collection of viruses that can infect the respiratory tract in humans. This virus is contagious and can be dangerous because it can cause death. Health protocols are very important during the Covid-19 pandemic, it is undeniable that all of them cannot comply with health protocols due to economic constraints such as the price of masks, hand sanitizers and liquid disinfectants soaring during the Covid-19 pandemic.

To make it easier to monitor electrolysis, the power supply can be controlled remotely via the Antares server and the android application. The system that has been built is a 3 mode current control system in the Internet of Things (IoT) based water ionizer application. This system can monitor the value of current, voltage, , battery, solar cells which are then processed with ESP32 to arrive at the Antares server, the android application is designed using MIT App Inventor.

In this study entitled "Controle system for 3 modes electrolysis current on IoT based-water ionizer" using an android application that is connected to the Antares server that can be installed on Android 7-11 types and can send data when an internet network is available. The command to change 3 current modes has a success value of 100%. The application can monitor current, and use a solar cell power source 50 Wp 12 V battery.

Keywords: Antares, MIT App Inventor, disinfectant, Internet of Things, ESP32, water ionizer.