ABSTRACT

Covid-19 cases in DKI Jakarta are still increasing, where every day there are always additional positive cases of Covid-19. So it requires fast and responsive handling. To support this, information is needed about which health facilities are ready to serve Covid-19 patients in DKI Jakarta.

This application will display which facilities are ready to serve Covid-19 patients and determine the route that must be passed to get to the destination location using the steepest ascent hill climbing algorithm. With this application, it is hoped that it can be used to handle Covid-19 faster because patients can find health facilities that suit the patient's needs so that it can shorten the time to get treatment.

From the test results of the application to determine the closest route from the patient's location to the Covid-19-related facility with the application of the steepest ascent hill climbing algorithm, from 30 tests, it was found that all destinations can be routed with a SAW if composition 80% distance and 20% congestion. The average memory required to determine the route using the steepest ascent hill climbing algorithm is 84.88 MB and the time required to determine the route is 00: 01,648 (1648 ms).

Keywords: *Covid-19, distance, aplication, android, steepest ascent hill climbing.*