ABSTRACT

SEARCH FOR THE CLOSEST DISTANCE IN TASIKMALAYA CITY BY USING ANT ALGORITHM ON ANDROID OPERATING SYSTEM

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Search the closest distance is a problem that often arise in transportation users. This happens because transport users in need a solution for the minimum routes, so time efficiency can be met. Tasikmalaya City is the third largest educational center in West Java. The City also has a myriad of potential for tourism including eco-tourism, crafts, shopping center, religious tourism, art, culture and others. Thus, to attract people to visit Tasikmalaya City.

To find the shortest route between locations frequented algoritmanalgoritma then used an ant which is a probabilistic technique to solve computational problems with finding the best path through the graph. The algorithm is inspired by the behavior of ants in finding paths from the colony to food. The technology wich implemented in the software are using Android operating system. Android is an operating system for mobile phones based on Linux. With that have made Android smartphone being popular. This software also has a web service as a mechanism of update function.

By using the technology, this software can be used as people needed. Users can search for the closest distance and knowing descriptions of each location in Tasikmalaya City.

Keywords: Ant Algorithms, Tasikmalaya, Android, search distance.