ABSTRACT

Package delivery is an activity of delivering goods directly from an expedition to a consumer carried out by a courier, a courier not only delivers one package but delivers as much as the courier can afford and of course not a little. Because the courier carries a lot of packages, the courier has difficulty in minimizing the delivery time because the package address listed must be searched for one by one.

With this problem, an application is designed that can manage the route of the package from the closest to the furthest. The sorting of addresses from this application is based on info from the QR code scanned by the courier then the route selector system will sort the addresses from closest to furthest using the Greedy Algorithm. The output of this application is in the form of a sequence of packet addresses that will be delivered from the closest to the furthest route. Thus the courier has no difficulty in finding an address and delivering the package in a fast time.

Based on the tests carried out the shortest distance from a point to the destination point, in this study the greedy algorithm succeeded in determining the shortest distance. The test results of the program produce a route from the starting point of 1 to 100 existing destination points and the computation time of the program with a fairly fast with avarage time 0,122 seconds.

Keywords:*Courier, Greedy algorithm, package navigation*