

ABSTRACT

Garbage has become a serious problem in Kab. Cirebon. Eventhough garbage in Kab. Cirebon is not as bad as in Jakarta and Bandung yet, but garbage has to be handled right now. Garbage will be increase as long as citizen in kab. Cirebon increase rapidly. Existing condition in dinas cipta karya dan tata ruang kab. Cirebon can only pick up about 30,21 % from total garbage in a day. Kab. Cirebon can increase their capacity by using a scientific method to choose a route for garbage transportation.

There are a lot of methods that can be used for solving route problem. In this case, Dijkstra will be used. Dijkstra algorithm will be served in pathfinder application to choose a route for transporting garbage in kab. Cirebon. The benefit for this method is its ability to count nearest route faster, and nowadays Dijkstra algorithm is served in pathfinder application of Google Maps. Google Maps can be integrated in any application by using Google Maps API.

Simulation application was built by using Google Maps API to show the map and route. This application will be modeled by using DFD (data flow diagram) for its process, and ERD (entity relationship diagram) for its data. The examination result for this application is it can fill the requirement to choose the route. It can create a new route with efficiency about 14% from Existing route that doesn't use any scientific method.

Keywords : Dijkstra algorithm, and Google Maps API