

ABSTRACT

Have conducted a research entitled application of algorithm dijkstra for determination of shortest path of subsidized housing in town of web based pangkalpinang. To assist the Society in knowing and obtaining information that is easily accessible from various places via the internet. Can improve accurate information to the community location of subsidized housing. Geographic Information System Mapping Web-based subsidized housing uses Google Maps and Dijkstra algorithms to find the shortest path from one point to another on a graph. This study displays a digital map on the web with Google Maps API. Apache Web server to handle user requests to retrieve data from MySQL database. Apache web server and MySQL database are already integrated in XAMPP. Dijkstra algorithm can search the shortest path from the position of the user's starting point to the location object with the accuracy of the average distance of 0.03% to the measurement. The shortest route search results are distance, route and specially determined vehicle.

Keywords: Subsidized Housing, SIG-Web, Shortest Route, Dijkstra.