

ABSTRACT

Growth in the number of users of motor vehicles in Indonesia is growing rapidly at the moment, both motorcycle and car users. The growth is very closely related to all aspects related to fuel. Whether it's availability, pricing, and information about the fuel station itself. Related to the fuel station or in Indonesia known by the acronym gas station (Fuel Filling Stations General), motor vehicle users are in need of information about the location of its existence, especially in emergencies. For example, when the availability of fuel in the tank of the vehicle decreases as the user is traveling out of town (in this case the city of Bandung). Thus the necessary mobile devices that can help users get the pump that is located close to the position of the user.

In this Final Geographic Information System (GIS) built in Android-based mobile applications. Geographic Information System (GIS) has the capability to build, store, manage and display geographic information berefrensi, for example, data identified according to location, in a database. User position information can be obtained with the help of GPS to provide position coordinates of a place. This application presents a map to see where the user position and the position of stations are taken out of service GoogleMaps. What gas stations and facilities in it is stored in a database. The application also provides services to show the route from the user position to the position of the pump.

The application is running well for a stable performance of the memory heap memory usage ratio of 52.05%, and is supported by the ease of running features and attractive interface. application is well used by WCDMA signal. That makes this application very helpful in finding the location of user stations are located close to the position and the route to reach the gas station in the city of Bandung.

Keywords: pump, Geographic Information Sytem, Global Positioning System, GoogleMaps, Android