ABSTRACT

Information's availability that can be accessed from anywhere and at any time is one advantage of a mobile application. One of the information that is needed is information about destinations' location and condition. To meet these needs we need a rich and innovative applications. The Android operating system offers the ability to build rich applications which is very innovative and is open source .

The final task is to make an android Site Route application for Telkomsel (RST software), which helps vendors and technicians in finding the location of the BTS. Not only the address, this application using the Java programming language with some features which are shelters' coordinate, username and password, sites' transmission data, and other information about shelters. The main purpose of this application is to ease vendors and telecom operators engineer to know the location of the BTS shelter from a starting point to the desired destination point. In addition, this application is connected to Google maps and uses GPS to detect the precise users' location and the desired location of shelter. Database that is used for this application is MySQL.

From the results of qualitative and quantitative testing has been done, this application has worked well, giving satisfaction to the user in the search for the shortest route BTS Telkomsel Karawang site, and the value of 94 117% accuracy of the results of the field survey.

Keywords : GIS , Google Maps API , GPS , Shelter , Android