ABSTRACT

The increasing of the consumptive lifestyle of people in Indonesia becomes object trading for some entrepreneurs in marketing their products. A wide range of tourist sites, such as natural tourism, shopping tourism, and culinary tourism are provided for people who hunger for entertainment, particularly in big cities such as Bogor. Bogor has its own attraction for many visitors, nevertheless the tourist sites in Bogor spread throughout the area in Bogor and this led to difficulties in finding a tourist site to be visited because the location of tourist site from one place to another are quite far apart.

Those facts inspire me to build an application called i-angkot. I-angkot is Android OS based application on smart phone. I-angkot is developed using Java programming language and Sqlite database management system which has six main features, namely *culinary*, *shopping*, *tourism*, *info Bogor*, *transportation*, and *about Bogor*. The main objective of I-angkot development is to help the users knowing the routes of public transportation (*angkot*) from their current position toward the tourist sites they want to visit. Moreover, i-angkot is connected with Google maps and utilize GPS to detect the accuracy of user current position with the tourist sites which user wants to visit.

The result of application testing that is carried out by subjective testing method uses the MOS value and the result of application testing that is carried out by objective testing method uses the GPS accuracy value. The MOS value obtains 4.03 for the application menu which is categorized as good, 4.33 for the user interface which is categorized good, 4.33 for the information provided which is categorized good, 4.2 for the accuracy of the tourist site's position which is categorized good, 4.53 for the accuracy of the user’s current position which is categorized good, and 4.167 for the needs of the application for the people which is categorized good. Subsequently, the objective testing obtains the accuracy value 100% for the accuracy of the position of a point with the longitude and latitude on the GPS.

Keywords : GIS, *API Google Maps*, GPS, Bogor, Angkot, Android