

ABSTRACT

The continued development of the technology at the moment, a lot of people to develop and invent new technologies. One technology that is being developed at this time, the technology of Augmented Reality (AR). AR is a technology that combines the virtual object into two-and three-dimensional in a real three-dimensional environment and to project these objects in real time. Utilization of AR has been widely applied in various fields, such as in the military, education, health, transportation, and so forth. This makes the author to develop the AR technology.

In the final project, designed and developed with AR technology system location based system (LBS) with the use of Global Positioning System (GPS). GPS is a technology that can determine the position of the earth's surface with the help of satellite signals synchronization. As described on the AR, it is in this final, designed a system to identify the object. Objects that are identified are existing buildings on campus IT Telkom. This made the system, will identify IT Telkom building on campus with the help of GPS. The application will identify the objects when the camera is directed.

The system can provide information about objects identified correctly. The application of this system to use smartphone that has Android operating system.

Key: *operating system, smartphone*, Android, GPS