ABSTRACT

An information panel is one of tools used to provide information about a place, how to use a tool, and so forth. In the large buildings are always visited by new people, information panels greatly help people to understand about the building they visit, especially with the building plan. Telkom Applied Sciences School building itself, such panels have not been fully used to gave information about building plan and other things. Information about the plan of the building is only a static information panel paper taped to the walls of the lobby and has not fully provide the required information. Informations that have displayed only have information in two-dimensional floor plan of the building and is not interactive. Therefore, in this project will be made more interactive information panels using Augmented Reality technology.

Augmented Reality will be installed on Android devices that are connected to a local database that holds information about the building. Marker needed to be printed on a paper with the plan which will then be placed on the information panel. Then, with applications on Android, the marker will be displayed in the panel will be scanned using the camera on Android smartphones that will generate 3D objects on the smartphone screen in real time.

Based on the testing and analysis has been done, the application can display a 3D model which has a navigation feature that helps in knowing the state of the building using Augmented Reality technology. Augmented Reality that has been made has created a more informative information panel, the display of 3D objects on a layout only using Android smartphone. Augmented Reality can be displayed either by using a 5MP camera or more with optimal distance of use the information panel, which is in the range of 80-100cm and average delay is 0,6 second.

Keywords : *Information panel, Augmented Reality, Android*