ABSTRACT

IMPLEMENTATION AUGMENTED REALITY WITH ABUSED GPS BASED TRACKING TO BUILDING BANDUNG APPLICATION TOUR GUIDE WITH ANDROID PLATFORM BASE

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Bandung city is one of the excursion destination city for domestic and foreign tourist. The sublimity that Bandung city had started from culinary, fashion, and tourism that give a different attraction for tourist to have a vacation in Bandung. For each tourist that newly know Bandung, they feel very difficult to get the information and data about location that they want to visit. Tourist guides can be a solution for the tourists that new in the area of Bandung with order to provide general information tourists needed, but the role of tourist guides may not be able to meet the needs and desires of tourists.

One of the solution to replace the role of tourist guides is apply application of augmented reality technology in the mobile application so that the general information needed by the tourists can be properly fulfilled. Augmented reality technology is applied not use markers, but uses the concept of markerless (without marker) with GPS-based tracking techniques. Mobile technology, especially smartphone is already present, facilitate the implementation of augmented reality because every smartphone that there is now integrated with GPS, then GPS is used as the development of augmented reality to provide a method for navigating around the user location.

The test results of the application Bandung Tour Guide indicates that the application is easy to use by the user, the data shown are easy to obtain and allows users to specify the location that want to target through augmented reality and benefit to tourism. Thus Bandung Tour Guide application may be another alternative for tourists to obtain information.

Keywords : GPS, *Augmented Reality, Markerless,* Bandung *Tour Guide,* Android.