

ABSTRACT

GUIDE TOUR MUSEUM SYSTEM BASED ON RFID (*RADIO FREQUENCY IDENTIFICATION*) TECHNOLOGY

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In general, museum visitors can not fully appreciate against a collection or artifacts from the museum. Although in every museum collection has a description of the items displayed, such as signs, but the history or details behind the museum collection can not be recounted as a whole. RFID (Radio Frequency Identification) is an automatic identification system for the object or person using a radio frequency signal that is non-line-of-sight, high inventory speeds, variety of form factors, rewritable tags.

The purpose of this research is how to design guide tour museum system using RFID technology (Radio Frequency Identification) to help visitors obtain complete information from museum collection. The system was designed using object-oriented approach using UML (Unified Modeling Language) as a modeling language and Java as development language.

From the test results found that museum visitors took 0.442 seconds to run a narrative of the collection since the system reads RFID tags that brought visitors. Museum managers also eased in the management of collection data, visitor data, and visitation data of the museum. The system also generates reports as a basis for future museum development.