ABSTRACT

GEOGRAPHIC INFORMATION SYSTEM MONITORING FOR PUBLIC FACILITIES IN BUNGO DISTRICT

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Bappeda is a technical body which have the main tasks to help the regent in regional governance in the field of research and regional development planning including public facilities mapping. Data management of public facilities in there were still not using databases, so data management was static, less centralized, and data were scattered in separate documents. Public facilities data also didn't have a geographic coordinate location, location can not be known certainty. As a result, monitoring and development planning can not be done optimally.

Geographic information systems monitoring provide a solution in this problem, because geographic information system monitoring is a system for monitoring digital map that contains the attribute data and spatial data in its database. The method used in the development of this geographic information system for public facilities mapping in Bungo has been adopted waterfall model. Analysis techniques was using structured analysis method, to illustrate the data model was using ERD (Entity Relationship Diagram) and for functional model was using DFD (Data Flow Diagram). The programming language used in this research is PHP with MySQL database. Whilst for public facilities mapping implemented by Google Maps.

Based on the test results, it can be concluded that this system could help to manage public facilities data with database-based, to facilitate the monitoring of public facilities so the treatment can be done optimally and can view the status and provide recommendations for appropriate development.

Keyword: *Geographic Information System, monitoring, Public Facilities, bungo*