ABSTRACT

APPLICATION OF GEOGRAPHIC INFORMATION SYSTEM TO IDENTIFY AREAS PRONE TO FLOODING IN BANDUNG-BASED MOBILE (Case Studies Indonesia Bandung Institute of Science Bandung)

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Indonesian Institute of Sciences (LIPI) is a Non Government Institutions Ministry of the Republic of Indonesia which is coordinated by the Ministry of Research and Technology. Where LIPI carry out government tasks in the field of science that one unit of the Research Center for Geotechnology his research on the problems of geographical conditions, one of which is flooding problems. Where to overcome the problem of flooding, especially flooding in Bandung, LIPI still using GIS applications flooding that can only be accessed within LIPI itself. So the flood of information delivery to the public can not properly conveyed. It is therefore a need for a better flood GIS.

Application of geographic information system (GIS) to identify flood prone areas in Bandung-based mobile was built using the PHP programming language to use MySQL Database Management System. The existing processes are showing flood prone areas in the form of maps, combined with google maps, information display and search the area flooded areas flood in Bandung based on districts and villages. Data collection method used is by interview, observation, and literature studies. Methods of analysis software used is object oriented. And to describe the process used is the Unified Modeling Language (UML).

Based on alpha and beta testing, application of geographic information system development Bandung flooding is expected to be a good alternative as a means of delivering information to the flooded areas in Bandung society. In addition to the GIS Bandung flooding is expected to facilitate the Research Center for Geotechnology LIPI Bandung in processing the data on the flood zones in Bandung.

Keyword : Map, Google Maps, Object Oriented, Unified Modeling Language