ABSTRACT

The Yogyakarta City Fire Service, which has the authority to deal with this problem, from the results of the author's research, the process of determining the locations of fire incidents and reporting of fire incidents is still carried out in a simple manner. For this reason, an application is needed to maximize the process of determining the locations of fire incidents and to improve the quality of information dissemination of fire cases in the Yogyakarta region. In this research, the writer designed a web-based Geographical Information System application, namely the creation of a geographic information system regarding the location of the locations of fire incidents that have occurred in the Yogyakarta area and in this geographic information system it was made to be used to display all the points of location of report spatial data. fire incident at the Yogyakarta City Fire Service. In addition to displaying spatial data on fire events, this application can also be used to process fire incident data so that it can make it easier to recycle fire incident data reports. In the development of the Geographical Information System for Fire Incidents in Wlayah, Yogyakarta City, using a structured method of the system development life cycle with the waterfall approach model. It is hoped that the results of this study will be able to maximize the process of processing spatial data on fire events, processing fire incident data and reporting data on the spread of fire events in the Yogyakarta City area.

Keywords: Fire Service, Geographic Information System, lodging