

ABSTRACT

The Mosque is the place of worship of the Muslims to worshipping Allah. Besides, the mosque is a place for Muslims to celebrate the great days of Islam. The activities of the mosque can be carried out and organized well due to good social management, the Mosque Welfare Council (DKM). Al-Mujahadah Mosque located in Grand Sharon residential, Bandung City is one of the mosques that has been the object of research has a major problem in the management of mosque program. The lack of the information system that contains the information data of the Muslim community in RW 11 has resulted in a gap between the purposes of the mosque program and its actual conditions. This has become a major problem for the mosque. This research has designed an information system based on the Geographic Information System (GIS) to monitor the mosque program to store information data of the Muslim community in RW 11. The research method used in this study is Waterfall. This method uses a linear or sequential approach, where software development takes place in clearly defined stages in sequence. The result of the design is a GIS-based information planning system on the Arcmap application, which displays spatial data and attribute data in it at each point of the community's home. Data on public participation in the mosque program will be collected which will be monitored by the DKM. The DKM will carry out an evaluation to see if the program is good to implement, and the program needs to be developed.

Keywords: *Geographic Information System, Al-Mujahadah Mosque. Waterfall*