ABSTRACT

ANY SEPTIANI MINTONO. Geographic Information System for Education and Population in Bogor City using Pmapper Framework. Supervised by HENDRA RAHMAWAN and HARI AGUNG ADRIANTO.

In the year of 2004, Regional Socio-Economic Survey has mentioned Bogor as the 12th densely populated city in Indonesia. As the population increased, it needs to be balanced with a good education system. Bogor City Local Government in cooperation with the Badan Pengkajian dan Penerapan Teknologi (BPPT) paid great attention to the development of human resources. Application Geographic information systems can be applied to assist in the process of government monitoring on the quality of education and conditions of the population within the scope of a particular region. In 2009, Aini has developed Geographic Information System for Bogor City Facilities. In this case, spatial data from Aini (2009) can be applied to support Geographic Information System for Education and Population in Bogor City development. This study aimed to design a web-based application system which its the main function displays the data analysis of population and education of Bogor City in the form of Bogor city map, information tables, and graphs. The color of result map represents number of school in district area, average score of student final test, and number of population in district level. For future development, the information system is expected to be taken into consideration in policy by the relevant local government. The Geographic Information System for Education and Population in Bogor City is developed on Linux Ubuntu 10.04 platform using MapServer, Pmapper-stable framework, PostgreSQL 8.4, and PostGIS 1.5.

Keywords : MapServer, pmapper framework, geographic information system.