ABSTRACT

Geographic Information Systems are information systems which are used to enter, store, recall, process, analyze, and produce geographic or geospatial data reference, to support decision-making in the planning. At this final project, we will create web-based Geographic Information Systems (GIS) for Mapping PENS-ITS’ Alumnus. This information system will have a visualization in web forms which is used to map the PENS-ITS’ Alumnus who work in industrials or institutions as an owner (entrepreneur) or employee which is distributed in the territory of Indonesia. This system will analyze alumnus’ jobs so that can recommend a suitable job for graduated students of PENS-ITS based on the graduated on each major. The technology used to build data and process maps and documents extracted from various sources is the approach to Geographic Information System (GIS). This system will use MySQL and PostgreSQL as database system builder. In this project, we use PHP as language programming. The method to get a recommendation is AHP. All information generated in this system will be shown as maps and also information of the number of PENS-ITS’ alumnus who are located in an area of Indonesia.

Keyword: GIS, Geographic Information System, web application, mapping PENS-ITS’ alumnus, PHP, AHP, MySQL, PostgreSQL