

ABSTRACT

This Final Project aims to build a dashboard for the geographic information system of ODP distribution and other providers as an effort to profile potential customers, named Geographic Information System for Asset & Profiling (SIGAP). This system uses geographic data as its reference so that it can be visualized on a map with data management features, and application of logic validation before saving data to minimize errors and data anomalies. The system equipped with functional features that can be used, consisting of layer management, search bar, ruler button, home button, map base select, sidebar navigation, and legend. Research methods include dashboard needs analysis, dashboard design, database configuration, as well as hosting the dashboard. Testing and validation are conducted to ensure that all components function properly before being deployed on the hosting platform. Load testing was also carried out using the GET method on important endpoints such as Login, Index, Data PT.XYZ, Data Comp, and Data Users in two different environments, that is localhost and hosting, with 10, 50, 100, and 250 number of threads being through 30 tests for each thread to assess the dashboard's performance under high load conditions. It is hoped that SIGAP can provide accurate data mapping, thereby offering insights into collaboration plans and enhancing the company's effective operational performance. This dashboard is expected to become a valuable tool for companies managing their own internal inventory data, helping to resolve operational issues in fulfilling customer internet service requests and profiling potential customers, that is other providers that can be targeted for collaboration.

Keywords: Geographic Information System (GIS), Dashboard, Optical Distribution Point (ODP), Customer Profiling, Load Testing