

**WEB-BASED DRUG RELATED CRIMES GEOSPATIAL DATA
ANALYTICS FOR DIGOS CITY POLICE STATION**

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ABSTRACT

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This capstone project presents a web-based geospatial data analytics system designed exclusively for the Digos City Police Station. The technology aims to aid the Digos city police station by utilizing a clustered map to visually represent and analyze drug data. The development of the web-based system for the Digos City Police Station significantly enhances visualization capabilities through the implementation of clustered maps and descriptive analytics graphs. These visual tools provide a clearer, more comprehensive representation of drug crime data, enabling the identification of patterns and trends that are crucial for strategic decision-making. The system was developed using the Rapid Application Development (RAD) technique, which ensured a flexible and iterative approach to creating the system. The system is efficiently allows the admin page to manage user accounts and the system also has a user logs history

feature that allows for effective tracking, clustered maps and descriptive analytics also improves the system's usefulness for law enforcement operations. This system makes a big contribution to the police force for its comprehensive understanding of drug-related information, including the distribution of drug cases and arrests across different areas, as well as the yearly trends in drug-related arrests. The good reviews demonstrate the project's effectiveness in achieving its goals, highlighting its significant contribution to enhancing law enforcement capabilities through improved data visualization and analysis.

Keywords: *Geospatial Data Analytics, Drug-Related Crimes, Web-Based System, Descriptive Analytics, Clustered Map, Law Enforcement, Digos City.*