

**Title:** Geographic Information System for Davao Region with Virtual Library

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## **ABSTRACT**

The Geographic Information System for Davao Region with Virtual Library is a web-based system which aims to solve the problem of centralizing information and updating kml data in the map specifically in barangay's and traffic management that is part of Davao Region. Since manipulating of kml data and Google map API V3 is done by the use of Java script, the researcher employs the concept of ajax in which Java script will make a request to the server to fetch the data in the kml. The system is capable of updating multiple data using excel. In centralizing information, the researcher provides virtual library in which the users can upload their kml layer. In the presentation of the map, the researchers provide color coding to quickly identify where the most populated barangay are and where the most traffic areas. The researchers aim to help the different organizations, government agencies and people that are only part of Region XI to get useful information from the website. With this system people will be informed and society will progressive because LGU's will be more updated and transactions will be easier for them and because of this system that contains geographic information, bio-geographic information and socio-economic characteristic that is only part in Region XI.

**Keywords:** Graphic Information System, Virtual Library, Davao Region