Design and Development of Barangay Health Information System using Google Maps

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Abstract: The study aimed to design and develop a Barangay Health Information System that integrates Google Maps as a key component. It utilizes rapid application development methodology and object-oriented analysis and design. The system was implemented using Laravel Framework, to create a robust and efficient BHIS. By integrating Google Maps, the BHIS can efficiently geolocate and map health facilities, patient populations, and other relevant data points. This spatial visualization offers a comprehensive view of healthcare dynamics within the barangay, enabling evidence-based decision-making and resource allocation. The evaluation conducted on the app concluded that it is highly effective in terms of usability, relevance, functionality, maintainability, and portability, receiving an overall average rating of 4.52, which is very satisfactory. This underscore the system's potential to significantly enhance health information management and healthcare services delivery at the barangay level, fostering improved health outcomes for the community.

Keywords: health information system, Google maps, object-oriented design

REFERENCES


