

ABSTRACT

This research focuses on the development of a Public Information Module and Geospatial Mapping in a Village Information System as a medium for promoting and presenting the regional potential of Batujajar Timur Village. The background of this study is rooted in the need for an integrated digital platform that can enhance transparency, streamline information dissemination, and optimize the promotion of village potentials. The main problem identified is the absence of a centralized web-based village information system, resulting in the manual and less effective presentation of village profiles, articles, facility maps, and potential maps.

The research adopts the Rapid Application Development (RAD) methodology, enabling iterative and user-driven system development. Requirement analysis was conducted through observation, interviews, and literature study, followed by system design using UML models, including use case, activity, sequence, ERD, and class diagrams. The main features developed include village profile management, article publication, village facility mapping, and village potential mapping, all accessible via the web.

System implementation produced an application capable of professionally presenting village profile data, managing village articles and news, and displaying interactive maps of village facilities and potentials in a visual and informative manner. Comprehensive system testing was carried out through unit testing, feature testing, integration testing, and User Acceptance Testing (UAT) involving village officials and residents. The results show that all core features function as specified, are easy to use, and provide tangible benefits to the government and the community of Batujajar Timur Village.

The conclusion of this research affirms that the developed village information system is effective in improving promotion and information transparency, while also supporting the digitalization of public services at the village level. Future recommendations include enhancing the visual features (such as photos and sneak peeks for facility and potential maps), regularly updating data, and optimizing the system's interface to be more informative and attractive. Therefore, this system is expected to serve as a model and reference for similar developments in other villages.

Keywords: *Village Information System, Public Information, Geospatial Mapping, Village Profile, Village Article, Facility Map, Potential Map, RAD, Web.*