

ABSTRACT

This research focuses on the development of a village infographics module within a web-based Village Information System (SID) for villages in West Bandung Regency, specifically covering Village Revenue and Expenditure Budget (APBDesa), Revenue, Expenditure, and Village Development Index (IDM) data. The background of the research indicates that the management of village financial and development data is still done manually, leading to inefficiencies and limited access to information for the public. According to data from the Ministry of Home Affairs in 2023, most villages in Indonesia still use conventional methods without an integrated digital system, creating a significant gap with the mandate of the Village Law which encourages the utilization of SID.

To address these issues, this research formulates a solution through system development on both the client and server sides, adopting the Rapid Application Development (RAD) methodology, chosen for its flexible and iterative approach. The system design process includes the creation of UML diagrams and business process flows as implementation references. The client-side implementation was developed using the React library. The implementation results include modules for managing revenue, expenditure, and IDM data, as well as interactive infographic displays.

System evaluation was conducted through Unit Testing, Feature Testing, Integration Testing, and User Acceptance Testing (UAT) involving village officials and residents. All functional testing scenarios and UAT scenarios passed, demonstrating that the system functions correctly and is accepted by users. Thus, this digital solution is proven to significantly improve the efficiency and transparency of village financial and development data management.

Keywords— Village Information System, Infographics, Client, Server, Rapid Application Development (RAD), Laravel, React, User Acceptance Testing (UAT).