ABSTRACT

The economy of Bandung City shows rapid growth, with Gross Regional Domestic Product (GDP) reaching Rp351.28 trillion in 2023. This growth is in line with significant information technology developments in major cities in Indonesia, such as Bandung. One of the sectors affected was the property sector, especially apartment housing. Changes in urban lifestyles that prioritize convenience and practicality have led to increased demand for apartments.

The increasing number of dwellings influenced the administrative process at Landmark Residence Apartment Bandung. Management of owner, tenant, and service charge payment data is still performed manually using Microsoft Excel applications that result in less efficient, less organized, and error prone performance. Therefore, this research aims to develop a web-based data collection system that is efficient, organized, and integrated to handle the data collection administration of owners, tenants, and service charge payments.

The development method used is an incremental iterative approach. The planning stage involves collecting data through interviews with apartment parties to understand the needs of users and systems. The design phase includes the creation of a variety of structured database diagrams and schemas. The development stage is carried out using the Laravel framework, and finally the system test stage that uses blackbox, load, and cross browser testing to ensure reliability and consistency.

Research results show that the developed system successfully addresses administrative issues well. The administration of owner and tenant data becomes more organized, while the service charge payment administration process runs more efficiently. System tests showed good results with appropriate functionality, high load handling capabilities, and display consistency across multiple browsers.

This research is useful for students as a reference to the use of information systems in the property sector, for campuses to improve references related to residential management, for Management Property to facilitate administration, and for

residents in service charge payment reporting services. In addition, the results of this study can be a solution for other researchers in addressing management problems in apartments.

*Keywords—**web, data collection, ipl, incremental iterative, laravel***