

ABSTRACT

Due to migration and the growth of industrial estates in Bekasi Regency, the demand for rental housing, including boarding houses, has increased. However, the traditional management system still used by many boarding house owners, such as manual recording and personal communication, hinders operational efficiency. Kanaya Kost is a rental house located in Cikarang, Bekasi Regency, and has a capacity of 25 rooms. They use a manual management system, such as recording occupant data using a book, providing information through personal chat, and using a conventional room rental process, which results in inefficiencies in operations. This leads to repetitive workload for the boarding house owner, the risk of losing new residents, and problems with data collection and marketing. To solve these problems, this research developed an internet-accessible management information system for Kanaya Kost. To ensure flexibility in adjusting to changes, an approach through the Agile method was used in the development of the system. This method is based on the PIECES framework, which includes performance, information, economy, control, efficiency, and service. Using the Unified Modeling Language (UML), the system design can be modeled using use case diagram, activity diagram, sequence diagram, and class diagram. Data was collected through interviews, observations, and literature research. Testing was carried out using the blackbox testing method and ISO 9126 standards. Based on the results of descriptive analysis and calculations, a percentage of 80.1% of the usability test results was obtained. From the percentage score obtained, the quality of the software in terms of usability is in accordance with the usability attributes and has a very high scale. The designed system is expected to increase operational efficiency, speed up the flow of information, and strengthen the competitiveness of Kanaya Kost in the midst of competition in the rental housing business.

Keywords: Information System, Residential Rental, *Website*, Agile Method, Management System, Kanaya Kost