

ABSTRACT

PT. Astha Cipta Properti markets properties in South Jakarta using the Qirby application and requires an admin website to facilitate data management. The development of the website often encounters issues with code quality that is difficult to maintain due to the large number of code lines. This study applies the AtomicDesign method, which includes five stages (Atoms, Molecules, Organisms, Templates, Pages), to improve code structure and maintainability. Analysis using SonarQube reveals that before implementing Atomic Design, there were 14 issues related to code maintenance. After implementation, the number of issues increased to 83. However, the number of code lines decreased, indicating improvements in code structure and organization despite the increase in the number of maintenance issues.

Keywords: *Atomic Design, website, SonarQube, maintainability code, quality code*