ABSTRACT

Optimal Information Technology (IT) governance plays a crucial role in supporting the achievement of an organization's strategic objectives. COBIT 2019 is recognized as a comprehensive framework, as it provides adaptable IT governance guidelines through its design factor components. However, the IT governance audit process is still largely carried out manually, namely by documenting data and audit results using physical documents such as notebooks, which can potentially lead to operational obstacles and inaccuracies in assessment results. This study aims to develop an IT governance audit assessment system based on COBIT 2019 using the Extreme Programming (XP) method. The findings indicate that the developed system facilitates the audit process and supports the implementation of more structured and efficient IT governance practices. This system is expected to serve as a digital solution that enables organizations to adopt IT governance in a more adaptive and systematic manner.

Keywords: COBIT 2019, IT Governance, Design Factor, Audit System, Extreme Programming (XP).