

ABSTRACT

There's a need for an enterprise to implement certain architecture inside their business flow in order to manage every element to make it works as it is supposed to do that it would make the company closer to reach its goal. The urgency of the existence of good architecture is kind of high as without it, the current system will remain incoherent caused by the inexistence of reference standard arranging how all elements and sub systems could work hand-in-hand. TOGAF 9.1 provides solutions to implement architecture in an enterprise system taking role as framework or proper architecture implementation standard. The enterprise who has implemented the architecture does not mean it could work well altogether. Hence to evaluate the readiness of a company to implement better architecture, it is needed to do some kinds of assessment to measure architecture maturity level in an enterprise. Meanwhile, the one who does the assessment, as we called the assessor, still doesn't have the right tool to automate the Enterprise Architecture Maturity Assessment process as everything still done conventionally manual in a paper-based assessment.

Technology trend gave the idea to develop an Enterprise Architecture Maturity Assessment information system based on Java using iterative and incremental method as tools to automate the existing process which is still done manually. Multitier architecture concept implemented as well.

By choosing Java technology in multitier architecture and system development using iterative and incremental method, the developed information system would have higher robustness level in order to be implemented easily in every company without the complexity of the installation and system requirements.

Keywords: *Enterprise Architecture Maturity Assessment, TOGAF, multitier, Java*