Towards a Hybrid Approach for Software Project Management using Ontology Alignment

Abstract

Many software projects are still behind schedule, over budget estimates and fail to meet user requirements. One of the important reasons for those failures is a lack of project management. With the growing trend of adopting the agile methodologies, there are two opposite sides: agile and traditional project management approach. It is advisable to use both approaches or to combine them within a software company. This may be useful for software companies that run different projects using different project management methodologies. So, the question is how to integrate both approaches in a single project management framework. In this paper, the researchers propose a novel approach that combines different project management methodologies based on the alignment of their ontological models. Two project management methodologies are considered: Scrum and PMBOK representing agile and traditional approach respectively. This approach also helps introduce new tools or integrate the existing tools for supporting this integration.
References


Index Terms

Computer Science Software Engineering

Keywords

Software Development, Agile Methodologies, PMBOK, Scrum, Ontology Alignment Process, Ontology Matching Techniques