Agile Teams Orchestrations

Working together with Agile Teams

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ABSTRACT

Traditionally, software was developed as a whole in linear sequential phases with a fixed set of requirements where each phase depends on deliverables of the previous phases. However, the requirements for new age software changed frequently and needed a continuous delivery with customer centric approach. This led to an introduction to ‘Agile methodology’ where the requirements and solutions evolve iteratively through collaboration between self-organizing cross-functional teams. As per the Agile Manifesto, this approach is efficient for a small co-located team (less than 10-15 people). Effective coordination between teams and issues with design and architecture are of major concern with increase in complexity of software projects and teams.

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1 INTRODUCTION

In the past two decades, we noticed tremendous expansion of the internet, which led to growth of software companies from small-scale to large-scale. In this information age, due to enormous competition in the market, changes are frequent to any software project under development. Conventionally, the entire software was developed by a small team. However, with increase in the complexity and requirements, led to the increase in people involved in building software. As a result of this, team is responsible in developing a single module, which is a part of the large software. Agile works well, when applied on smaller teams as it gives more flexibility, transparency and coordination between the team members. Although, to meet the requirements for large scale projects a globalized approach with outsourced teams is becoming common, where different teams must work together cohesively flexibly and rapidly to deliver a product that conforms to the requirement specification. For agile principles to be effective for larger teams, careful considerations must be given to the collaboration between the teams, overall design and architecture, project falls on track, resolving dependencies and duplicity of work. In section 2 we discuss various issues of teamwork that should be considered while working in large scale. In section 2.1 we discuss the scrum approach that should be followed for large scale development. Section 2.2 addresses the challenges in the inter-team communication over large scale projects. Section 2.3 highlights how design and architectural affects in large projects.

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