The Usage of The Agile Methodology For The Software Project Management Enabled Through Altering Fundamental Agile Practice

Jay A. Dave

(Computer Department School of Engineering, R.k.University)

Abstract- *The agile development is the boom in recent time but still few of the companies using their own methodologies and techniques for the software development. The purpose of this paper is to understand why Agile is so much successful and still what factors are restricting few companies for not accepting the agile approach and how we can overcome that as well.*

I. INTRODUCTION

First of all we should start with the basic understanding of the term "Agile" which means something which is very flexible or able to change its form very or we can call it as adaptability to the change that may take place during the development of the software according to the customer or clients update or change in the basic requirement or the functionality. We can say that this approach lead to the faster development of the software based on the capability and the skill level of the developers and the nature of the project and the of course the complexity as well.

The reason behind the popularity of the Agile is the Scrum which is an iterative, incremental and adaptive process which ultimately helps the project to be developed and managed effectively as well as efficiently basically scrum is useful for any kind of projects but mainly used for the software development and most suitable for the projects with constantly changing requirements which is made up of the consecutive repeated process which is known as a sprint. The agile basically works by meeting users will be known then there will be open kind discussion with the purpose of identifying the exact requirement and kind of usage by them which will then been documented and utilized accordingly and

the users will be constantly in touch with the developers for ant changes in the requirement while the development is going on thus this will accommodate the change in the development and based on the iterative step more accurate and highly meeting to the customer's satisfaction level. If the customer is willing to change the complete functionality then his/her has to fill up the change request that will cost certain amount to them this will help the developers as it can lead to extra benefit to them and to customer it is obvious that they have to pay some extra money as they have asked to introduce the completely new functionality all the requirements of the users for example first of all it is required to define the users of the specific system as all the.

II. PROJECT MANAGEMENT TOOL USAGE

There are many tools available in the market for the implementation and management of the software development. In this article we will understand one of the recent tool in the market and express how to manage the software development process using the same, Further we well understand the modification scope in the agile that will lead to batter software development in the shorter span of time via the implementation of the basic iterative process that is scrum but by making little modification in that. The motive of the project management tool is to involve tall of the stakeholders and practitioners' and enabling the project manager to effectively communicate with all of them and get the response as well. Let me give you one such example of the JIRA Which could serve as a project controller , manger and tracker software and which could effectively manage various issues related to the project regardless of the size and the complexity of the

project which is under the development phase. The project management software like JIRA also provides the features like creating various projects and allows one to create various issues further the issues also can be priorities and each of the issues can be assigned with a unique status which is supposed to be changed according to the need of time based upon the changes the sample status could be as following open, in progress, resolved, completed etc. The biggest and the most credential feature I have observed about this software is that it provides you continuous service regardless of a slow internet connection or even further if the client is completely in offline mode then to he/she has that capability to raise some issue at any point of the time. If someone wants to use this tool then also need to take into consideration the cost of the project and the budget and according to that make the wise choice as there is a certain cost involved with this tool.

III. PROPOSED MODIFICATION IN ONE OF THE FUNDAMENTAL AGILE PRACTICE

As it is known that acceptance test driven development which is abbreviated as (ATDD) is one kind of development methodology which emphasis on constant interaction between all the stockholders and practitioners' of the project to be developed in which software testers will try to go through the stated requirements from the client side and this is very much similar to writing the test case according to the requirement of the customer even before actually doing the project. With this if we can predict the feasibility of that particular requirement /demand and we can actually validate that requirement for this one can actually combine few requirement if desired or eliminate few which is ill defined or not properly defined also if needed completely eliminate some but while doing any of the above mentioned action the software engineer must not hurt any of the stakeholder of the project because all of them are equally important for the organization.

Or else this could lead to an advantage for the software firm or organization as a software engineer can negotiate with the client for the few of the requirements which are critical or demanding extra

effort because of the complexity involved with the specific requirements. Further benefits apart from financial aspects could be reduced efforts in the development process which will lead to saving of time and saving of resources as the direction of work to be done is now crystal clear as the result of the modified effort that software engineer /software analyst has successfully attempted during the ATDD.

IV. CONCLUSION AND FUTURE WORK

This paper has included the basics of agile methodology of the software development along with that how any tool can be used to do the effective project management and controlling any type of project regardless of its type size and complexity as well, also I have suggested the variation in one of the most fundamental agile practice known as ATDD which would probably result into the more efficient agile approach. In a future the measurement of the proposed change would be evaluated in terms of performance while project development using agile methodology.

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