

SSW 555: Agile Methods for Software Developments

Homework 7

Name: Nidhi Chovatiya

CWID: 10457344

- 1) In the reading assignment this week Poppendieck and Cusumano point out that some of the principles of the lean philosophy have been practiced by software developers in the past before agile methods like XP and Scrum were invented. Describe how Microsoft applied Lean principles according to the Poppendieck paper.

Answer:

In mid-1990, Microsoft adapts the lean methodology and put into the practice for their software development process. In Microsoft, each member of development team have to fix the bugs or errors on daily basis and have to stop the process immediately if the bug or error is detected and first resolve that bug or error and then continue the process. Poppendieck also identified the role such as product manager in Microsoft, whose responsibility is not only to assign a task or project development but also have to make sure that project will get a success or failure in the market, which results into role motivation for product manager as he/she is responsible for the whole project. After reading Poppendieck paper, I came to know that Microsoft is a very huge company, which is focus not only big teams but also small teams. Microsoft adapts the lean principles, which was an efficient practice to reduce waste and improve production, which is the motto of any project. Also, Microsoft adapting automated build tools and tests which help to development team to test the similar codes in less duration of time.

- 2) Value stream mapping is an important tool used by Lean team. Describe Value Stream mapping.

Answer:

Value stream mapping is defined as a tool which shows the flow and detailed documenting or description of each step of the process of goods or information from supplier to client.

It consists of two maps: 1) Current map 2) future map

In the current map, current situation is analyzed and then try to find out waste and eliminate it right there, which allows to make plan for future map, which flash the lights on the desired situation.

It is done to identify the waste in the process of transferring goods or information from supplier to client, which eliminates in the current map and some modification or changes are needed to establish the future map.

- 3) Describe your GEDCOM team's current process (you don't need to draw a diagram) including how you communicate, how you integrate code from each team member, how you test code from all test members, and how you package and submit the results.

Answer:

In our GEDCOM team, we communicate via WhatsApp group continually as well as Zoom calls about the user stories, test cases and problems occurred during the development process. We store our codes in GitHub and we integrate the codes by pulling the updated project from our repository once a group member is done with their part and pushes their code to GitHub, then we add our own parts to the updated codes and push them to the GitHub repository again to keep it always updated. We prepare the Sprint report together but for each submission we choose one to submit the results to the Canvas.

4) Evaluate your GEDCOM team's current process and identify waste in your process. Describe a new process for your team to follow to eliminate waste in your team's current process

Answer:

Our current development process would include all stories of two sprints are have to be worked properly. In our process, we took too much time to combine every team member's code in sprint 1, which is the waste of time. So, we will take care of it and make sure that it will never happened again. Also, we must complete story on time for that we have to start work on it earlier. To eliminate the waste in the process we should start the work on project earlier and if anyone stuck at some point then try to figure it out by group chat and try to complete it on time.