Homework Lesson 3

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Level 1

1. Methodologies

Methodology Pros Cons For which industry

Focuses most on clear Makes changes This structure is suited

defined set of steps difficult to smaller projects with

Waterfall deliverables that are

Provides more predictable Excludes the client easy to define from

and result for budget, or end user the start

timeline, and scope

Determines the end goal Delays testing until Can be useful and

early after completion predictable approach if

requirements are fixed

Emphasizes a clean well documented, and

transfer of information clear, if the the

of each step technology is understood

and mature, if the project

is short and if there’s no

additional value gained

from “ going agile”

Allows a department focuses on multiple goals The tenets of Agile—

to deliver products to at a time, certain goals adaptability, iteration,

Agile clients as quickly as may not receive as much continuous delivery,

possible focus throughout the entire and short time frames,

project. Variable goals better suited for ongoing

Projects can easily within a department can lead projects and projects

change and adapt to a lack of specific goals where certain details

for a team, which may aren’t known from the

Introduces a great lead to unknown deadlines. That means

system for collaborating and less accurate costs if a project doesn’t have

between both customer clear constraints,

and other departments Lack of documentation timelines, or available

resources

Increased performance Less documented

improvement improvement

Goal focus shifting

Allows to correct mistakes

and improve production Less predictability

details quickly

Continuously improving

product rather than a

perfect one

Less preparatory work

Level 2

1. In your opinion, why did the Agile manifesto appear?
2. What problems did it have to solve and did it succeed?

As I read through Agile Manifesto and History I can see that it was something necessary to appear at the time. Something more efficient, flexible, iterative and collaborative Market demand would become more tough and as Waterfall methodology was used with tons of documentation to write and strict timelines, management mistakes, it became very difficult to deliver quality products in short terms. There were financial and competitive pressures to bring websites, applications, and new capabilities to market faster. Waterfall wasn't flexible to any changes as well . There was very limited time left for testing which would cause more defects in produced software

Agile allows us to produce good products to customers in the short terms with less pressure. Its highest priority is to satisfy the customer through early and continuous delivery of valuable products. Agile made it possible to deliver software piece by piece, ready to use and well tested much earlier . It is very flexible about changes of requirements or adding anything needed to the software. Previous approaches to product were often very detailed and planned before development started, it made it very difficult to change anything. It doesn't work well nowadays as the market and demands are changing almost daily. It allows testing in early stages which means less time and budget is spent on fixing defects. The work environment is definitely better for employees which leads to better results. Customers and developers are in constant interaction, it helps building trust and transparency.

Level 3

Mobile application for sharing cat photos

I could use waterfall, especially if I would do it by myself, but I prefer to choose Scrum methodology to launch the mobile application because it would allow me to start using it faster.

1. I would create a backlog of requirements for the product
2. I would then prioritize the backlog
3. I would select my Sprint duration by 3 weeks
4. I would pull stories from the backlog into Sprint as many as I think I could do it in 3 weeks
5. After 3 weeks I would have some features working and could demo my process
6. After first Sprint I would have an idea of my work rate so I can adjust how many items to pull off the backlog for Sprint 2

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