# Software Requirement and Specifications "SHE 4401"

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Reading Assignment on

" Fundamentals of Agile Methodology"

## Introduction to Agile Principles

# FOUR CORE VALUES:

- i) Individuals and interactions (over processes and took)
- ii) Horking Software (over comprehensive documentation)
- iii) austomer collaboration (over contract rego tiation)
- iv) Responding to change (over following a plan)

#### 12 PRINCIPLES OF AGILE SOFTHARE:

- i) Satisfy customers through early and continuous delivery of valuable software.
- ii) Even late in development, welcome changing requirements for the customer's competitive advantage.
- iii) Deliver working software frequently, with a preference to the shorter timescale.
- ir) Business people and developers must work together daily throughout the project.
- v) Give the motivated individuals the environment and support they need-
- vi) The most efficient and effective method of conveying information to and within a development team is face to face conversation.
- vii) Working software is the primary measure of progress.
- viii) The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- ix) Continuous attention to technical excellence and good design enhances agaility.
- x) The art of maximiting the amount of work not done is essential.
- xi) The best architectures, requirements and designs emerge from seff-organizing teams.
- Xii) At regular intervals, the team reflects on how to become more effective them tunes and adjusts its behavior accordingly.

# 1 Understanding agile values and principles

B. WHAT IS AGILL?

collaboration, customer-centricity, and expecting and responding to change.

Agile is NOT about speed or velocity. It's neither a methodology nor a framework. Agile started with the agile manifesto.

## Details of the 4 agicle values:

- i) To be agile means to be all-in on people. The 1st value might be the most ahead of its sime of the 12 agile principles, at least six involve human relationships.
- ii) The 2nd value is probably the most controversial to day. What's so great about software that only works'? Everymewants to be a philosopher and empathize with customers, but no one can actually deliver. Gretting a minimum viable product out now is better than getting the porfect 'product out much later. It's not the goal but it delivers value to the customers.
  - ii) combact sugo tiation referes to any agreements invoked in the world, internally or externally. This includes any political dealings and vender paperworks. All this is good but customers should come first.
  - in) Following a plan is good, but a responding to change is even more valuable. Plans are only good as their flavibility.

## Details of the 12 agile principles;

- i) Delivering valuable products and features quickly and regularly helps getting feedback faster to improve and increase value to customers.
- ii) Embrace uncortainty. Anticipate and welcome change.

  Lapdate sprint goals mid-sprint more frequently + celebrate team pirots
- iii) Take baby steps. Shipping smaller increments regularly and being able to deploy quickly mittgates risk.
  - Dreak up stories into smaller pieces.
  - in) No matter who it is transportency and collaboration should be day to-day normally for everyour included in the project.

La Hake planning and roadmap artifacts more accessible so others can follow along with progress and ask questions or provide feedback + Use an open slack channel (or chat tool of choice).

A supportive environment will mean different things to different people. It comes down to knowing your team and how to communicate and support the individuals.

This might be the most challenging.

Lo yakework fun + treat people as individuals + establish a compelling vision for your product or program.

vi) video conferencing doesn't entirely replace in-pouson interaction. But many advantages to remote work 1/50.

Don't be shy to jump on a quelk call to hash something out in real time.

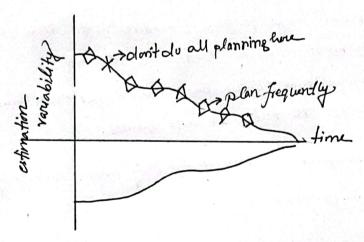
vii) This principle can feel out of touch in a world where we value customer problem statements, fancy visual frameworks, usor rusearch, market research. Thuse are important, but what good due they if he can't help customers with them?

- -> Decument and plan as yougo + priorities building things that will help cuolinus now.
- Viii) Agility means that barnows, late nights and last-minute emergencies should be rare.

  La Maintaining a constant peace means the team should slow down not speed up + plan ahead and put systems in place that makes it normal to react to change.
  - ix) This principle doesn't aim for perfection. Excellence in the tech world is a rapidly moving target and to hit it requires "continuous attention".
- Build in time to incorporate tech debt into sprints.
  - Less is more. You spend more time doing only what's necessary and waste bus time complicating your processes.
    - L. Think about what is needed. Consider MoscoW. + Determine the simplist solution to the problem and consider the trade offs.
  - Frinciple No. 11 is not about anarchy or some progressive operating model where people from their own class and do whatever they want. Trust doesn't magically emerge, so the advice is easier said them done.
    - Lo Create organizations of homes that are motivated and empowered. I create teams that are cross functional to minimize dependencies.
  - xii) cheek in regularly with your team and collegues. + Track next steps when meessary. + Have fun and be genuine.

### 17 Agile principles in practices

- · Unlike Hatorfall or other traditional project management approaches, agilists deliver early and continuously.
  - · Agile teams havens something from the customer after each delivery .



- · The purpose of each sprint is to deliver a Done, woalk increment of work at hant once per Sprint.
- . What matters is that collaboration is critical for all agile teams.
- · Agile teams test thework as it goes and has a series of concrete steps to take.