

# Fundamentals of Agile Methodology

# Agile is a mindset and Philosophy to develop software according to some rules and protocols. Which are defined by some specific agile frameworks.

# Agile Manifesto is a short, 68-word statement that establishes a broad system of purpose and values for meaningful, efficient, continuous software development.

4 values define the agile manifesto -

- 1) Individuals and interactions over processes and tools
- 2) Working software over comprehensive documentation.
- 3) Customer collaboration over contract negotiation
- 4) Responding to change over following a plan.

# We are uncovering better ways of developing software by doing it and helping others do it.

- 1) - Processes and Tools are valuable but individuals and interactions are more valuable
- Of the 12 Agile Principles, at least six involve human relationship.
- Most foundational value.

- 2)
- Most controversial value.

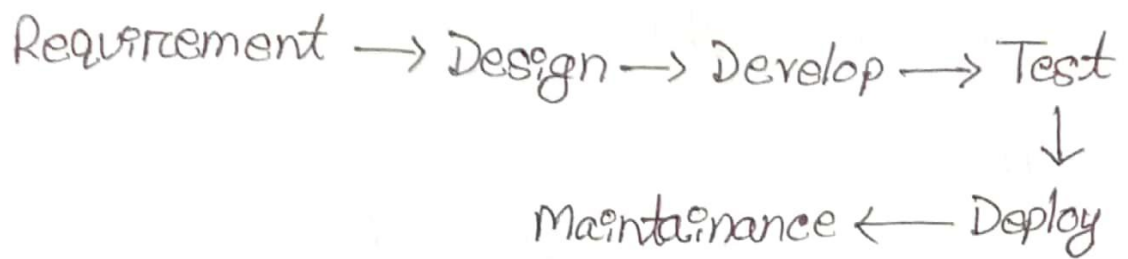
⇒ Agile basically aims to focus more on interactive and easy development rather than involving corporate companies.

## The 12 agile Principles

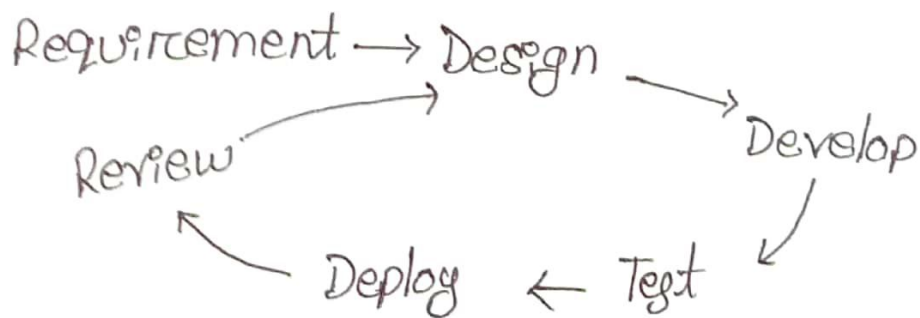
### 1) Satisfy the customer

through early and continuous delivery of valuable software

#### Waterfall technique



#### Agile Technique



This is a cycle until the customer gets the best. In each cycle customer gets the improved software.

#### How to Apply:

- Focus on customer's problems
- Build minimum viable products
- Operate with minimum valuable processes
- Foster a culture of learning and iteration in your team.



2) Welcome Changing Requirements even if it is late in development

=> Do replan about the project when you learn more, do not plan previously and proceed on that plan.

Apply:

- > Update sprint goals mid-sprint more frequently
- > Set the tone for others by not being surprised when needs change.
- > Celebrate when your team pivots.
- > Use continuous discovery habits to stay in tune with customer problems and the market.

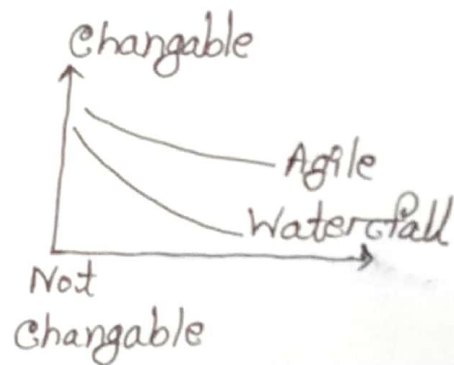
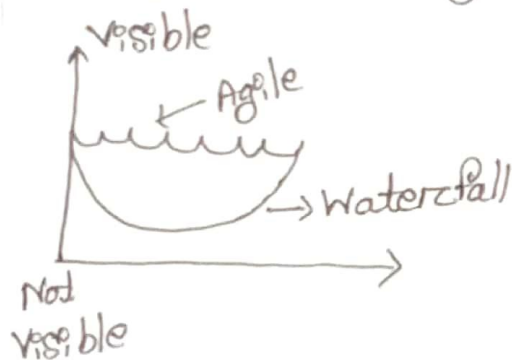
3) Deliver working Software frequently.

Divide the software in parts. Create small deliverable soft products and then deliver each of them.

Apply: -> Break up the stories, work on them and deliver.

#### 4) Work Together Daily

- Business people and developers must work together daily throughout the project
- Waterfall/General method suggests to build a long requirement document and then disappear for development.
- Agile suggests to meet frequently for discussing the changes & showing the result.



#### Apply :

- Invite stakeholders regularly on team meetings
- Do not talk about progress & changes
- Create visual of the team.
- Use open Slack Channel

5) Build Projects around motivated individuals

→ Get them the environment and support they need and trust them to get the job done.

Apply:-

→ Make work fun

→ Treat people as individuals and get to know them personally

→ Celebrate wins, big and small.

→ Establish a compelling vision for your product.

6) Communicate Face to Face

Apply:- → Turn your video on

→ Meet in person from time to time

→ When using text, sprinkle in emoji reactions



7) Measure Progress by working Products

→ Document and plan as you go

→ Prioritize building things that will help customers now.

→ Double down on Agile Principle No. 1

→ "Have we helped customers lately? (actually)"

8) Maintain a constant pace indefinitely

→ Slow down not speed up.

→ Plan ahead and put systems in place that make it normal to react to change.

9) Pay continuous attention to technical excellence

→ Host lunch-and-learns & "brown bag" educational opportunities

→ Build in time to incorporate tech debt into sprints.

→ Foster a culture in which team members are encouraged to maintain quality and sustainable implementations for longer-term agility.

## 10) Keep it simple

- Keep your plan/story simple
- Do a small talk with stake-holders
- Do check-boxes.

## 11) Trust your team to self-organize

- Team should generate ideas itself.
- Team leaders should accept ideas.

## 12) Reflect and adapt

- Check in regularly with your team and colleagues.
- Track next steps when necessary
- Have fun and be genuine.