**What is agile?**

Agile is a flexible, iterative approach to project management that focuses on customer satisfaction, team collaboration, and smart organization of the development process.

**Waterfall model**

Promotes the creation of detail plan that must be followed strictly, and any changes seem like harmful that can lead to cost overruns and delays.

**The Agile manifesto**

1. Working software over comprehensive documentation
2. Individuals and iterations over processes and tools
3. Customer collaboration over contract negotiations
4. Responding to change over following a plan

**12 Agile principles**

1. Customer satisfaction
2. Welcome change
3. Delivering frequently (sprints)
4. Work together (Transparency, constant communication)
5. Support motivated individuals (Trust, commitment)
6. Communicate face to face (direct interactions)
7. Working software (Measure work KPI) [working software or usable product]
8. Maintain constant pace
9. Technical excellence and good design
10. Simplicity
11. Self-organizing teams
12. Reflect and adjust (continuous improvement)

**The structure of an agile project**

Each activity is broken into smaller activities so we can test it and show a result that satisfy the client. [plan, design, develop and test by parts] (iterative)

* ***Project client*** (Holds central role, defines requirements at the beginning, review and validates each iteration, dictate latest priorities, informs on any changes, represent the future user)
* ***Project team*** (create the project scope, development team, execute work, technical advisors [how long each task take, how a change can be implemented, what may be the risks])
* ***Project manager*** (accountable person for the project success, governing iterations and demos, ensure overall work is on track, ensure that changes made make sense from project point of view, leaving flexibility for adjustments to the work schedule between the iterations)