# Agile Principles

The highest priority is to satisfy customer’s wants when it comes to the piece of software they requested.

Changing requirements are always welcome.

Deliver working software frequently, with a minimal set of core functionalities.

At regular intervals, the team reflects on how it can become more effective during work on the project.

# SCRUM

- Start with the product backlog (list of everything that needs to be done for the product, in order of priority).

Tasks can be written as such:

As a [who] I want to [do something] to [achieve a goal].

Ex:

As a user, I want to be able to subscribe to the platform mailing list, in order to get weekly updates from the system.

- A plan for the sprint (planning, development, testing and delivery) should be made at this stage.

- A team call should be made everyday, discussing any issues with the sprint, and developments.

- Charts are used to see progress on pending and completed tasks.

- At the end of the sprint, a review meeting should be held with everyone on the team to reflect over the sprint (what went well, what went wrong and where can we improve, etc).

# Kanban & Lean

**Lean** is comprised of 2 main ‘pillars’:

- **Continuous improvement.**

Always improving upon resource waste (ineffective meetings, processes, excessive/pointless tasks, etc)

- **Respect for people**

Striving every day to provide more value to customers, while also encouraging experimentation, growth and learning on the employee side.

**Kanban** is a highly visual workflow management method used by the majority of teams that practice **Lean**.

It is built on a system of boards and cards. A multitude of cards (representing backlog tasks) are put on a board, and moved to the left or right to signify that they’re in progress / completed.

# TDD

Test driven development entails writing tests for features first.

The tests will obviously fail at first, then you must write code in order to pass those tests. Rinse and repeat.

It is reported that this method of development brings significantly decreased defect rates.

# OKRs

A framework for setting measurable goals within a company (Objectives and key results).

This improves the communication flow within the company, making sure that employees are at all times informed of what the next milestone is.

**OKR** greatly reduces miscommunication during projects.