**What is Agile?**Agile is a time boxed, iterative approach to project delivery that builds software incrementally from the start of the project, instead of trying to deliver it all at once near the end.

**Agile Development is** an umbrella term for several **iterative** and **incremental** software development methodologies.

**Agile** is like an umbrella and all these **Extreme programming**, **Scrum** and many other approaches fall into it.

**What is Scrum Framework?**Scrum is the most popular agile framework. It is an adaptive, iterative, fast, flexible and effective method designed to deliver significant value quickly and throughout the project.

Scrum ensures transparency in communication and create environment of collective accountability and continuous progress.

A key strength of Scrum lies in its use of cross-functional, self-organized and empowered teams who divided and execute their work in short, concentrated work cycles called **Sprints**

**Scrum framework** fall into the agile category use to manage the complex software developments and consist on the team of 3-9 persons.

**3 Roles of Scrum Team:**

1. **Product Owner**

* This role has vision of what they want to build**.**
* Product owner can be the person who has strong knowledge of system users.
* Product owner will be single person or he can have a team.
* Although he will be responsible to answer the question not his team.

1. **Scrum Master**

* Care taker of the scrum processes which are going on.
* Responsible to remove those obstacles that can cause problem in the creative development.
* Organize the meetings to deal with critical problems.
* It also makes the process run smoothly.

1. **The Team**

* Team is consist of 3-9 persons officially.
* Team may have developers, designers, software engineers and others engineers needed to develop a particular system.
* Team deliver the product in iterative manners.
* The scrum team work together and closely for smooth working experience and avoid the communication gap mistakes.

**Extreme Programming:**It is the type of agile development we develop software with small team where the software requirements changes rapidly.

1. The Planning Process 2. Small Releases 3. Metaphor

4. Simple Design 5. Testing 6.Refactoring

7. Pair Programming 8.Collective Ownership 9. Continuous Integration

10. 40 Hours Week 11. On site customer 12. Coding Standard