**Team:**

Team has a group of members; those work together and achieve the company's goal.

**Team members:**

Team member’s help each other succeed to accomplish the company's goals and provide their expertise on different projects and duties.

**Team members are:**

Business Analyst (BA),

Team Lead,

Architect,

Developer,

Quality Assurance (QA)

**Team process:**

Software process is a set of activities that leads to the production of the software.

Software process must follow the four activities:

* 1. Requirements gathering

Here we will collect the details about the product.

* 1. Software design and implementation

In this activity we will design the project and then implement it.

* 1. Software verification and validation

Verification:

This is used to verify the output of the project.

Validation:

Validate the project operations.

* 1. Software maintenance

After deliver the project to the customer, Maintain the project output without errors. If any Error occur then rectify it quickly. Without time delay.

**Methodology:**

* Some Methodologies are known as software development life cycle methodology.
* A methodology is a model, which project managers employ for the design, planning, implementation and achievement of their project objectives. There are different project management methodologies to benefit different projects.

**Some most frequently used project management methodologies are:**

1. **Agile Software Development:**

Its short-termed delivery cycles (sprints).

1. **Iteration method:**

Iterative development is a way of breaking down the software development of a large application into smaller chunks.

1. **Crystal Methods:**

This method focuses more on team communication, team member skills. Crystal methods come under agile category. This method gives low priority on the project processes and tasks.

1. **Feature Driven Development:**

More focused on simple and well-defined processes, short iterative and feature driven delivery cycles.

1. **Spiral:**

Spiral methodology is the extended waterfall model with prototyping.

1. **Systems Development Life Cycle (SDLC):**

It is a conceptual model used in software development projects. In this method, there is a possibility of combining two or more project management methodologies for the best outcome.

1. **Waterfall Model :**

Waterfall methodology is a sequential design process.

In this model, development lifecycle has fixed phases and linear timelines.

The phases of waterfall model are:

1. Requirements

2. Design

3. Implementation

4. Testing

5. Maintenance

**Iteration:**

Iteration is a single development cycle, usually measured as one week or two weeks.

**Sprint:**

A sprint is a period of time allocated for a particular phase of a project. Sprints are considered to be complete when the time period expires.

**Agile:**

* In an Agile project, the entire team is responsible for that project and it is not just the project manager's responsibility.
* Agile project teams follow open communication techniques and tools which enable the team members and the customer to express their views and feedback openly and quickly.
* These comments are then taken into consideration when shaping the requirements and implementation of the software.
* Deliveries are short-term. A delivery cycle ranges from one week to four weeks. These are commonly known as sprints.
* Frequent communication is one of the key factors of this method. That is daily meetings.
* Daily meetings are held in order to determine the day's work and dependencies.
* Agile methodologies can also be inefficient in large organizations and certain types of projects.

**Common minimum process (cmp):**

* Common Minimum Processes are like checkin code into Git-Hub and post that Git-Hub link into trello.
* Team Members must follow the process.

**Definition of Done (DOD):**

* A Definition of done is the quality of work and is used to assess when a user story has been completed.
* Done means coded to standards, reviewed, implemented with unit Test-Driven Development (TDD), tested with 100 percent test automation, integrated and documented.
* Done means the feature has been developed, tested and meets all required acceptance tests.