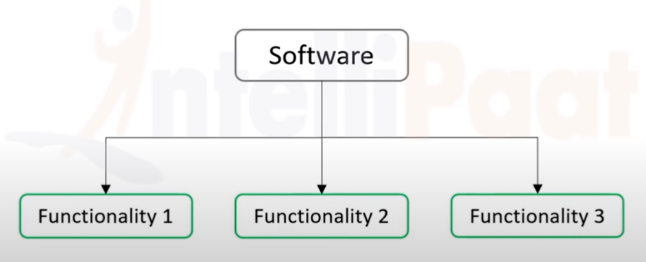
**Jira Tutorial for Beginners**

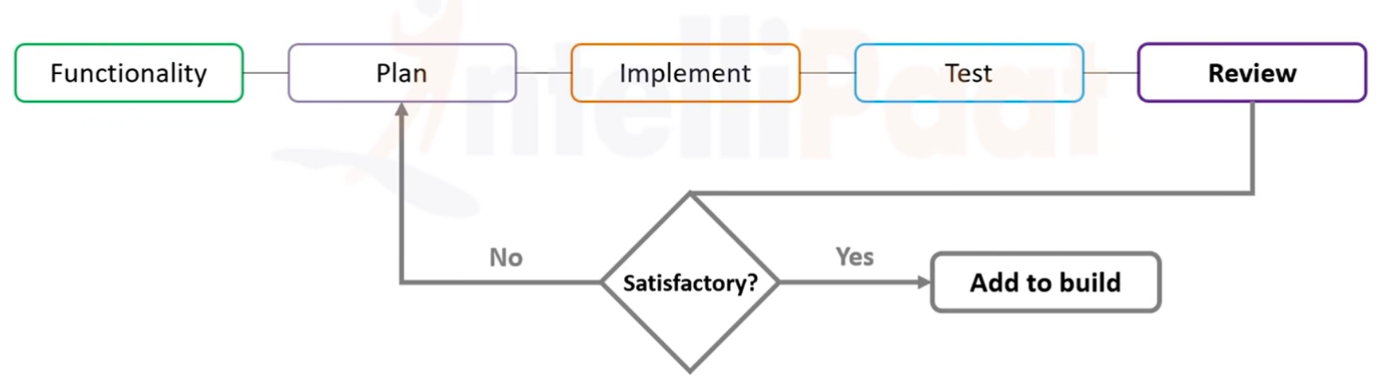
* **The Agile Process:** It is a ***time-boxed***, ***iterative approach*** to software development, ***to deliver*** the ***product incrementally***, instead of all at once.
* A software consists of several functionalities.



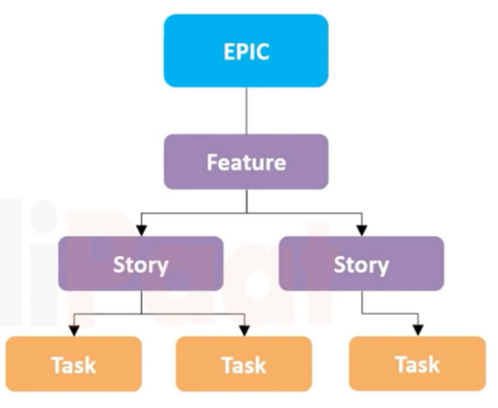
* In agile process, each functionality is considered as an individual project.



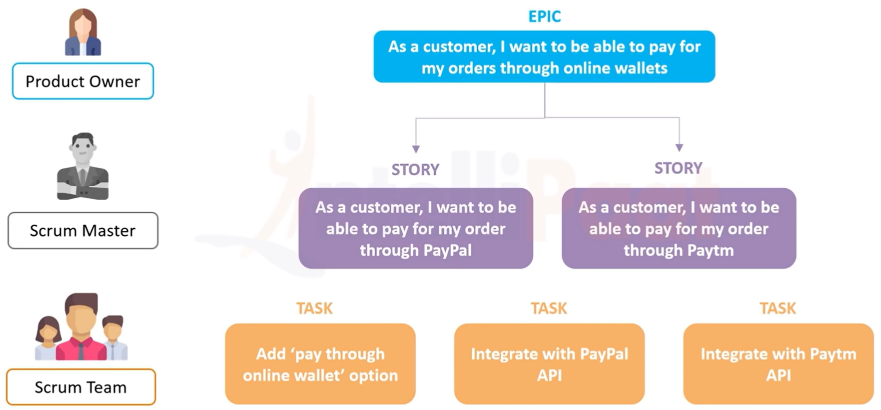
* For each functionality, the following steps are followed –
* Plan
* Implement
* Test
* Review



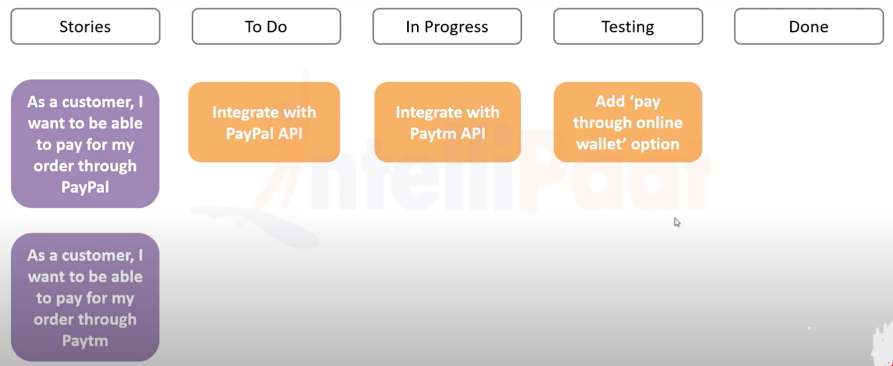
* Advantages of Agile process –
* An ***unsatisfactory functionality*** ***cannot stop*** the ***development*** of the software.
* ***Each*** of the ***functionalities*** can be ***developed in parallel***, or sequentially, based on requirements. Hence, it ***saves time***.
* **Agile Terminologies Used in Jira –**
* ***Epic***: Abstract view of what we exactly need.
* ***Features***: Epic is broken down into features that are required to fulfill that epic.
* ***Stories***: Non-technical components that are required to fulfill the features or epic.
* ***Tasks***: Technical sub-components that describe the technical aspect and constraints for developers to work on the problem in hand.



* **Scrum:** It ***describes*** the ***hierarchy of employees*** working for a software development company ***and how they operate*** to achieve agile development.
* **Agile Scrum Roles –**
* **Product Owner:** The product owner is responsible for owning and the successful completion of the project. The responsibilities include –
* Understanding what the customer wants.
* Convey the message to the development team through epic.
* Creates and maintains product backlog.
* Release management.
* **Scrum Master:** Intermediary between product owner and the development team. The responsibilities include –
* Ensures that dev team follows agile methodology.
* Makes sure that stories or epics are broken down into appropriate tasks.
* Manages product backlog.
* Ensures project completion.
* **Scrum (Development) Team:** Consists of software developers and quality assurance people. The responsibilities include –
* Break down work into subtasks.
* Follow agile methodology.
* Ensure timely delivery with quality.
* Communicate their progress with scrum master.



* **Scrum Board:** It has many columns, such as –
* **Stories:** It consists of the stories required to be worked on.
* **To Do:** It consists of the tasks that have not been started as yet.
* **In Progress:** It consists of the tasks that are currently being worked on.
* **Testing:** It consists of tasks that are currently being tested.
* **Done:** It consists of tasks that are developed and tested fully.





* **Sprint:** It is between 1 to 4 weeks, allotted to complete the assigned tasks.
* **Scrum Meetings:** 15-minute meetings daily to discuss the previous day’s complete/ incomplete tasks and the current day’s expected tasks.
* **Jira:** Project Management tool, developed by Atlassian. Two of its most important features are –
* Bug tracking
* Agile project management
* **Why use Jira?**
* Creating backlogs
* Creating sprints
* Creating tasks
* Updating status on scrum board
* Managing releases
* Code integration
* Managing workflows