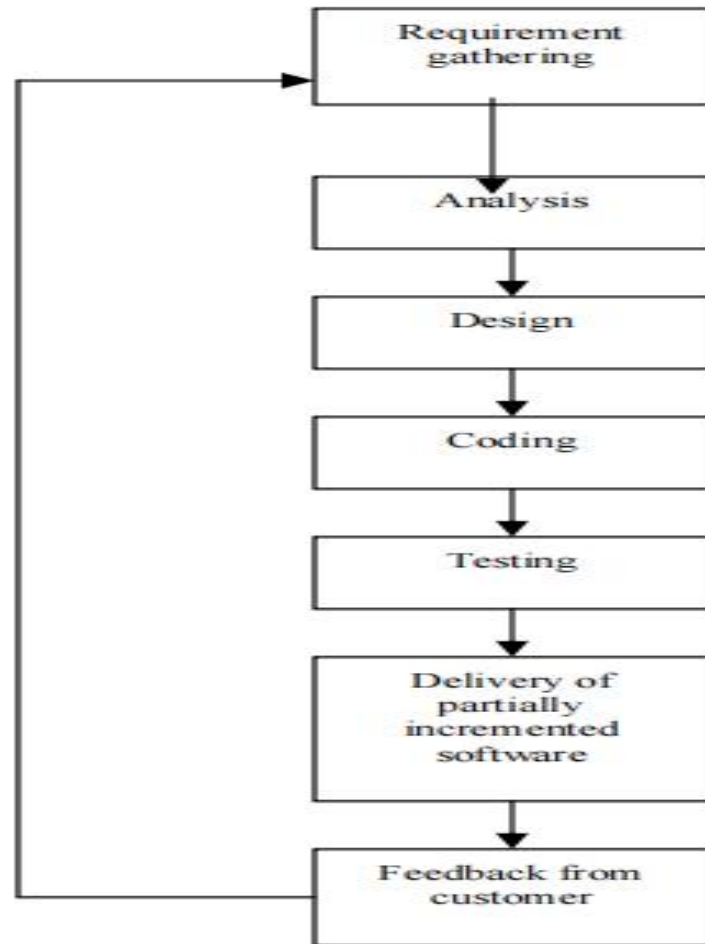


AGILE PROCESS

- ✓ Agile is a time boxed , iterative approach to software delivery that builds software incrementally from the start of the project , instead of trying to deliver it all at once near the end.
- ✓ It works by breaking projects down into little bits of user functionality called user stories , prioritizing them, and then continuously delivering them in short two week cycles called iterations.
- ✓ In software development life cycle, there are two main considerations, one is to emphasize on process and the other is the quality of the software and process itself.
- ✓ Agile software processes is an iterative and incremental based development, where requirements are changeable according to customer needs.
- ✓ It helps in adaptive planning, iterative development and time boxing.
- ✓ It is a theoretical framework that promotes foreseen interactions throughout the development cycle.



PHASES OF AGILE PROCESS

CHARACTERISTICS OF AGILE PROCESS

- ✓ Agile process requires less planning and it divides the tasks into small increments.
- ✓ Agile process is meant for short term projects with an effort of team work that follows the software development life cycle.
- ✓ Software development life cycle includes the following phases 1.Requirements gathering, 2.Analysis, 3.Design, 4.Coding , 5.Testing, 6.Maintenance.
- ✓ The involvement of software team management with customers reduces the risks associated with the software.
- ✓ This agile process is an iterative process in which changes can be made according to the customer satisfaction.
- ✓ In agile process new features can be added easily by using multiple iterations.

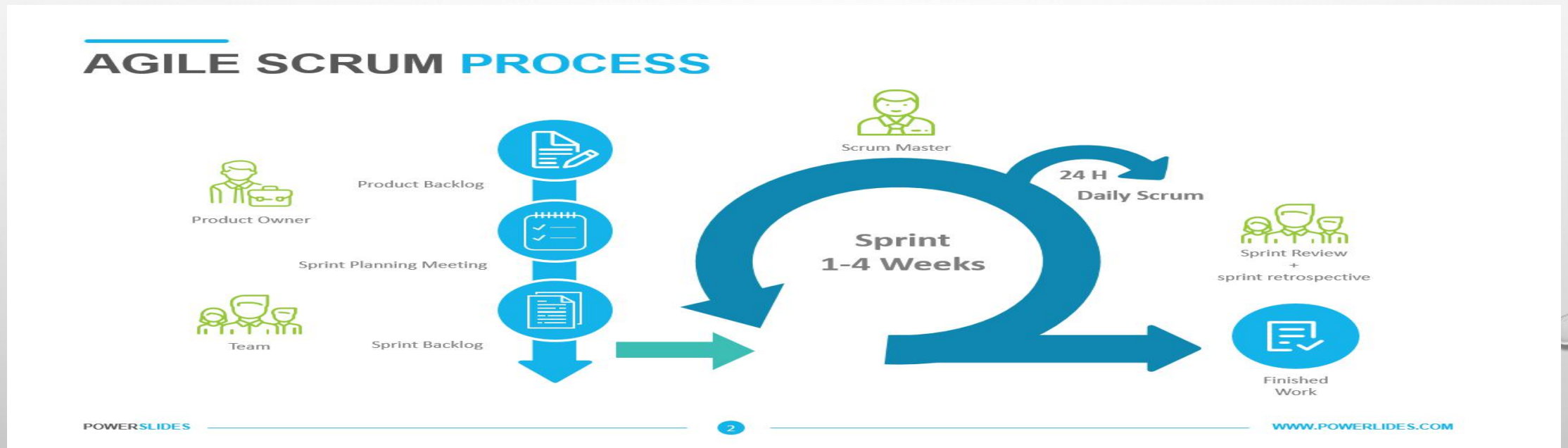
1. Iterative
2. Modularity
3. Time Boxing
4. Parsimony
5. Incremental
6. Adaptive
7. Convergent
9. Collaborative
10. People Oriented

METHODOLOGIES

Scrum

Scrum is another popular method of agile development through which productivity becomes very high. It is basically based on incremental software development process.

In scrum method the entire development cycle is divided into a series of iteration where each iteration is called as a sprint. Maximum duration of a sprint is 30 days.



ADVANTAGES OF AGILE PROCESS

- ✓ Adaptive to the changing environment
- ✓ Ensures customer satisfaction
- ✓ Least documentation
- ✓ Reduces risks of development

DISADVANTAGES OF AGILE PROCESS

- ✓ Customer interaction is the key factor of developing successful software
- ✓ Lack of documentation
- ✓ Time consuming and wastage of resources because of constant change of requirements
- ✓ More helpful for management than developer

COMPARISON OF AGILE PROCESS WITH OTHER SDLC MODELS

Features	Different Process Models		
	<i>Agile Process</i>	<i>Spiral Model</i>	<i>RAD Model</i>
Definition	Agile process is the ability to both create and respond to changing requirements of software.	Spiral model is the software development model which focuses on managing risks.	RAD model is "high speed adaptation of linear sequential model, in which component based construction is used.
Adaptability	✓	✓	X
Testing Phase	Unit, Integration , System testing	Unit, Integration and System testing	Unit
Quality Factors	✓	✓	X
Risk Analysis	X	✓	X
Off-the- Tools	X	X	✓
Failure normally due to	Code	Code	Architecture and design
Knowledge Required	Product and domain	Product and domain	Domain
Entry & exit Criteria	X	X	✓
Mock up	✓	✓	X
Extendability	✓	✓	X
Project management involvement	✓	X	✓
Higher Reliability	✓	✓	X
Time Boxing	✓	X	✓
Status of Development Team	Less experience required	Less experience required	More experience required
Use of reusable components	X	X	✓
Flexibility	✓	✓	X
Customer Involvement	✓	✓	X

The background is a light gray gradient. In the top-left and bottom-right corners, there are several realistic water droplets of various sizes, some overlapping. The droplets have highlights and shadows, giving them a 3D appearance.

THANK YOU