AGILE MODEL

AGILE MODEL

PREPARED FOR

Engineering Students

All Engineering College

(SPM)
PREPARED BY: MS. SHWETA TIWARI
Published On: April 20, 2022

FALL SEMESTER, YEAR (VIth, 3rd)
FALL SESSION (2021-22)

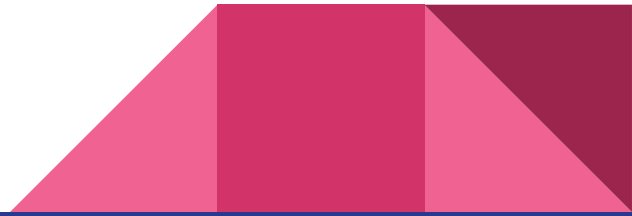
AGILE MODEL

- Agile model is a combination of iterative and incremental models, that is, it is made up of iterative and incremental models.

- The focus is on process adaptability and customer satisfaction in the Agile model.
- Adaptability- Expand your capacity to handle the change.
- Customer satisfaction is defined as a measurement that determines how happy customers are with a company's products, services, and capabilities. Customer satisfaction information, including surveys and ratings, can help a company determine how to best improve or changes its products and services.

AGILE MODEL

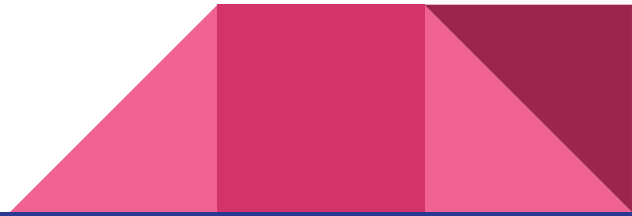
- In earlier times, the iterative (waterfall model) was used to create software. But in today's time developers have to face many problems.
- The biggest problem is that in the middle of software development, the customer asks to make changes in the software.
- It takes a lot of time and money to make these changes.



AGILE MODEL

- So to meet all these shortcomings, the agile model was proposed in the 1990s.

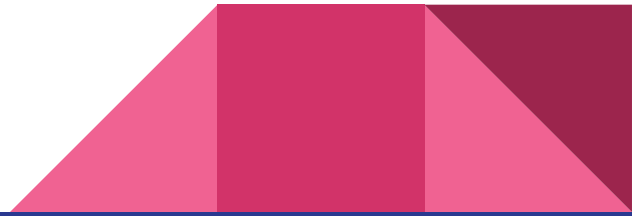
- The agile model was primarily designed to make changes in the middle of software development so that software projects can be completed quickly.



AGILE MODEL

The agile model consists of the following steps:-

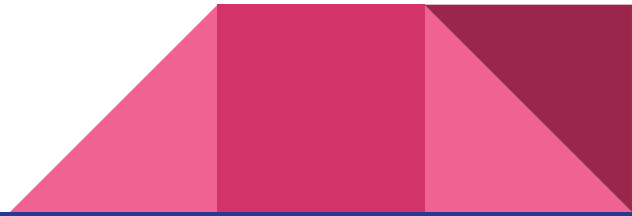
1:- Requirement Gathering
2:- Requirement Analysis
3:- Design
4:- Coding
5:- Unit Testing
6:- Acceptance Testing



AGILE MODEL: Concept

- In the agile model, the software product is divided into small incremental parts.
- In this, the smallest part is developed first and then the larger part.
- And each incremental part is developed on iteration.

- Each iteration is kept small so that it can be easily managed.
- And it can be completed in two to three weeks.
- Only one iteration is planned, developed and deployed at a time.



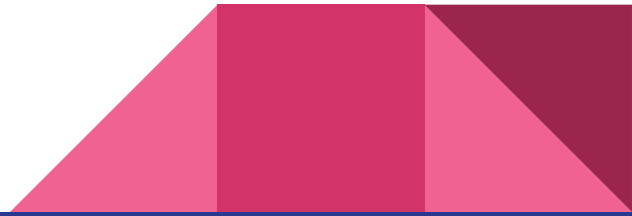
PRINCIPLE OF AGILE MODEL

AGILE MODEL: The principles in this model are:

Its principles are as follows:-

1:- * There is a customer representative in the development team to maintain contact with the customer at the time of software development and to understand the requirement.

*When an iteration is completed, stakeholders and customer representatives review it and re-evaluate the requirements.



AGILE MODEL: The principles in this model are:

Its principles are as follows:-

2:- A demo of working software is given to understand the requirements of the customer. That is, it does not depend only on the documentation.

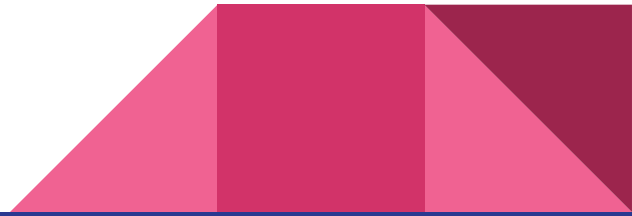
3:- Incremental versions of the software have to be delivered to the customer representative after a few weeks.

AGILE MODEL: The principles in this model are:

Its principles are as follows:-

4:- In this model it is advised that the size of the development team should be small (5 to 9 people).
So that whoever is a team member, they can communicate face to face.

5:- The agile model focuses on the fact that whenever any changes are to be made in the software, it should be completed quickly.



AGILE MODEL: The principles in this model are:

Its principles are as follows:-

6:- In agile development two programmers work together.
One programmer does the coding, then the other reviews that code.
Both programmers keep changing their work.
That is, sometimes someone does coding, sometimes someone reviews.

AGILE MODEL: Advantages And Disadvantages

AGILE MODEL: The Advantages in this model are:

Its benefits are as follows:-

1:- In this, two programmers work together, due to which the coding is very good and there are very few mistakes in it.

2:- In this the software project is completed in a very short time.

3:- In this the customer representative has the idea of each iteration, so that he can easily change the requirement.

4:- This is a very real approach to software development.

AGILE MODEL: The Advantages in this model are:

Its benefits are as follows:-

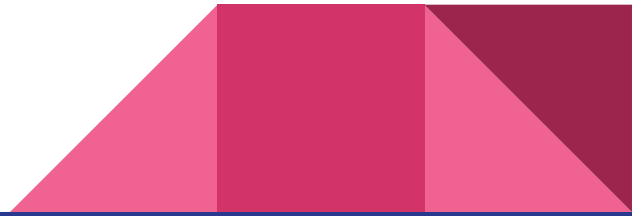
5:- In this, attention is paid to teamwork.

6:- There are very few rules in this and the documentation is also negligible.

7: - There is no need of planning in this.

8:- It can be easily managed.

9:- It provides flexibility to the developers.



AGILE MODEL: The Disadvantages in this model are:

Its disadvantages are as follows

1:- It is not able to handle complex dependencies.

2:- Due to the lack of formal documentation in this, there is confusion in development.

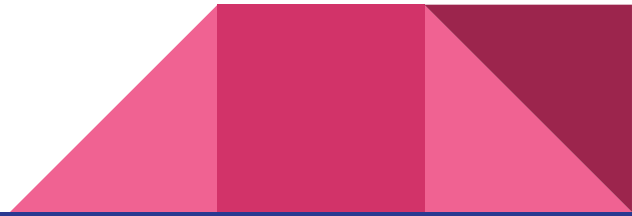
3:- It mostly depends on the customer representative. If the customer representative gives any wrong information, then the software can become wrong.

AGILE MODEL: The Disadvantages in this model are:

Its disadvantages are as follows

4:- Only experienced programmers can make a decision in this. New programmers cannot make any decision.

5:- In this, at the beginning of software development, how much effort and time will be taken to create the software, it is not known.



AGILE MODEL

- agile SDLC models

Agile has the following models:-

Scrum

crystal methodologies

DSDM

feature driven development (FDD)

lean software development

extreme programming (XP)