SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND DESIGN

COURSE NAME : 19CS302 AGILE SOFTWARE ENGINEERING

II YEAR /III SEMESTER

Unit 2- Agile Development

Topic 3: Agile vs. Traditional software development

Brain Storming

1. What are all the principles of Agile?
2. What are all the manifesto of Agile?

TRADITIONAL SOFTWARE DEVELOPMENT	AGILE SOFTWARE DEVELOPMENT
It is used to develop the simple software.	It is used to develop the complicated software.
In this methodology, testing is done once the development phase is totally completed.	In this methodology, testing and development processes are performed concurrently.
It provides less security.	It provides high security.
It provides less functionality in the software.	It provides all the functionality needed by the users.

TRADITIONAL SOFTWARE DEVELOPMENT	AGILE SOFTWARE DEVELOPMENT
It is basically used by freshers.	It is used by professionals.
Development cost is less using this methodology.	Development cost is high using this methodology.
It majorly consists of five phases.	It consists only three phases.
It is less used by software development firms.	It is normally used by software development firms.

Agile Vs Traditional SDLC Models

- Agile is based on the **adaptive software development methods**, whereas the traditional SDLC models like the waterfall model is based on a predictive approach.
- Predictive teams in the traditional SDLC models usually work with detailed planning and have a complete forecast of the exact tasks and features to be delivered in the next few months or during the product life cycle.

Conti...

- Predictive methods entirely depend on the **requirement analysis and planning** done in the beginning of cycle.
- Any changes to be incorporated go through a strict change control management and prioritization.
- Agile uses an **adaptive approach** where there is no detailed planning and there is clarity on future tasks only in respect of what features need to be developed.

Conti...

- There is feature driven development and the team adapts to the changing product requirements dynamically.
- The product is tested very frequently, through the release iterations, minimizing the risk of any major failures in future.
- **Customer Interaction** is the backbone of this Agile methodology, and open communication with minimum documentation are the typical features of Agile development environment. The agile teams work in close collaboration with each other and are most often located in the same geographical location.

Assessment 1

1. Compare and contrast Agile vs Traditional Software Development process.

Ans : _____

References

1.Roger S.Pressman, Software engineering- A practitioner‘s Approach, 10th Edition, McGraw-Hill, 2017.

2.Ken Schawber, Mike “Agile Software Development with Scrum” Pearson Education, 2nd Edition, 2015.

Thank You