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"Creating of Culture of Excellent"

Assignment No:- 01

Course Code:- CSE-325

Course Title:- System Analysis and Design

Name of Assignment : Agile Development Method

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Semester : 7th

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Introduction: The Agile Method is a particular approach to project management that is utilized in software development. This method assists teams in responding to the unpredictability of constructing software. It uses incremental, iterative work sequences that are commonly known as sprints

What is Agile Methodology?

Agile methodology is a software development process framework that adopts the iterative approach, open collaboration, and process adaptability throughout the life-cycle of the project .This iterative agile approach is more flexible and its short time-span iterations seek improvement for the project in small release, with minimal planning, rather than plan at length. This helps to minimize the overall risk, and allows the project to adapt to changes more quickly. (Tay, 2008)

Agile methodology is an alternative method for traditional project management, typically used in software development. It helps teams respond to unpredictability through incremental, iterative work cadences, known as sprints. Agile methodologies are an alternative to waterfall, or traditional sequential development. (Agile Methodology, 2008

Agile Software Development Methods

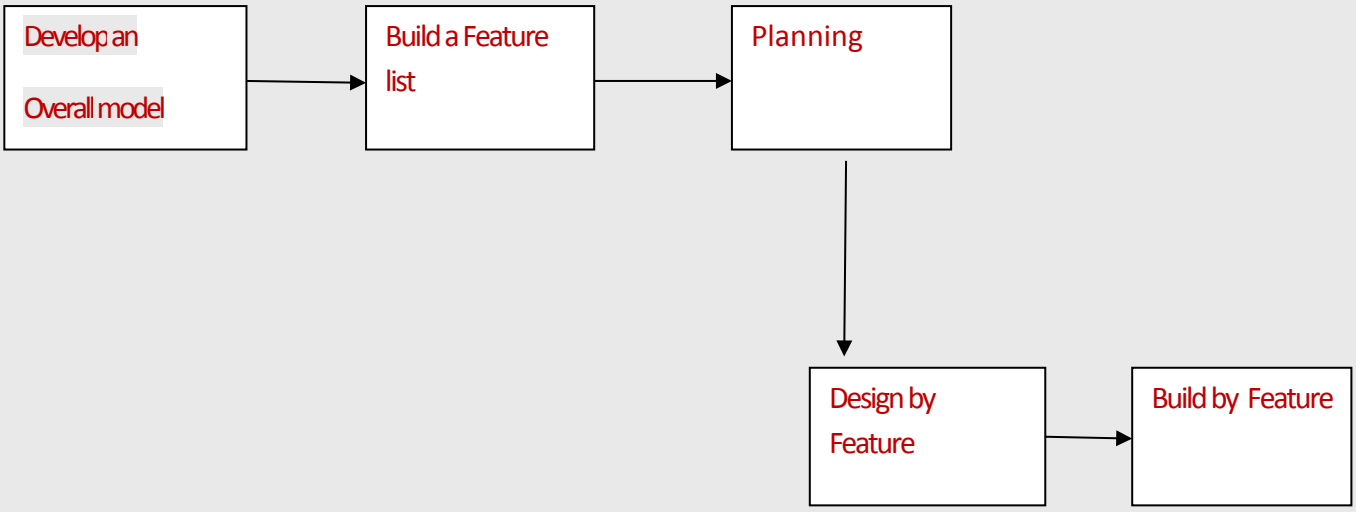
These are some of agile methods used in agile software development.

Feature Driven Development (FDD)

FDD is suitable for the starting out new projects, enhancing and upgrading existing code, and those projects tasked with the creation of second version of an existing application

Feature Driven Development is an agile and adaptive approach for developing system. This approach does not cover the entire software development process, but this approach rather focuses on the designing and building phases. However FDD is been design to work with the other activities of software development project and does not require any specific process model. The FDD approach expresses iterative development with the best practices found to be effective in industry and it also emphases quality aspects throughout the process and include frequent and tangible deliveries, along with accurate monitoring of the progress of the project.

FDD consists of five sequential processes and provides the methods, techniques and guidelines needed by the project stakeholders to deliver the system



A:- Develop an overall model

- when the development of an overall model begins, the domain experts must be aware of the scope and the requirements of the system are built and required documents such as use cases or functional specifications are likely to be existed. The overall domain is further divided into different domain areas and a more detailed walkthrough is held for each of them by domain members. After each walkthrough a development team works in small groups in order to produce object model. And then development team discusses and decides an appropriate object model for each domain.

B :-Build a Feature list

- in the list the development team presents each of the client valued functions included in the system. The functions are presented for each of the domain areas and these function group

consist of so-called major feature sets. These feature sets represents different activities within specific domain areas and is reviewed by the users and sponsors of the systems for their validity and completeness.

C :-Plan by Feature:

- this includes the creation of the high-level plan in which the feature sets are sequenced according to their priority and dependencies assigned.

D :- Design by Feature and Build by Feature

: - the design by feature and build by feature processes are iterative procedures, during which the selected features are produced. In these processes it includes such tasks as design inspection, coding, unit testing, integration and code inspection

Conclusion

As we came to know that traditional software development approaches are more automatic which concentrate more on Processes, tools, contracts and plans. In contrast to traditional methods, agile methods keep emphasis on interaction, working software, embracing change at any moment of the project, customer relationships. The method can be agile if it is Incremental, Cooperative Straightforward and Adaptive.

Reference: http://agilemethodology.org/

http://www.ambysoft.com/essays/agileLifecycle.htmlDyba,