

স্বাধীনতা অর্জন করে বিশ্ববিদ্যালয়



## **Department of CSE**

### **ASSIGNMENT NO = 01**

**Course Code** : CSE - 325  
**Course Title** : System Analysis & Design  
**Assignment Name** : Agile Development Methodology

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## Introduction

Agile is one form of [software development methodology](#). Its main focus is on client satisfaction through continuous delivery. The focus of Agile is more on limiting the project scope. An agile project sets a minimum number of requirements and turns them into a deliverable product.

Agile development methodology provides opportunities to assess the direction of a project throughout the development lifecycle. By focusing on the repetition of abbreviated work cycles as well as the functional product they yield, agile methodology is described as "iterative" and "incremental". In waterfall, development teams only have one chance to get each aspect of a project right.

(Haag & Cummings, 2009) says an Agile project sets a minimum number of requirements and turns them into a deliverable product. Agile means what it sounds like: fast and efficient; small; lower cost; fewer features; shorter projects.

In February 2001, the [Manifesto for Agile Software Development](#) (The Agile Manifesto, 2001) was created by seventeen people with desires to find alternative approaches to software development. Each of them played a prominent part in the opposition of the prevailing software development processes, which they considered rigid, heavyweight and too focused on documentation. Their response, summarized in the manifesto, clarifies their focus by valuing:

**Agile project management is an iterative development methodology that values human communication and feedback, adapting to changes, and producing working results. (Conrad)**

### What is Agile project management?

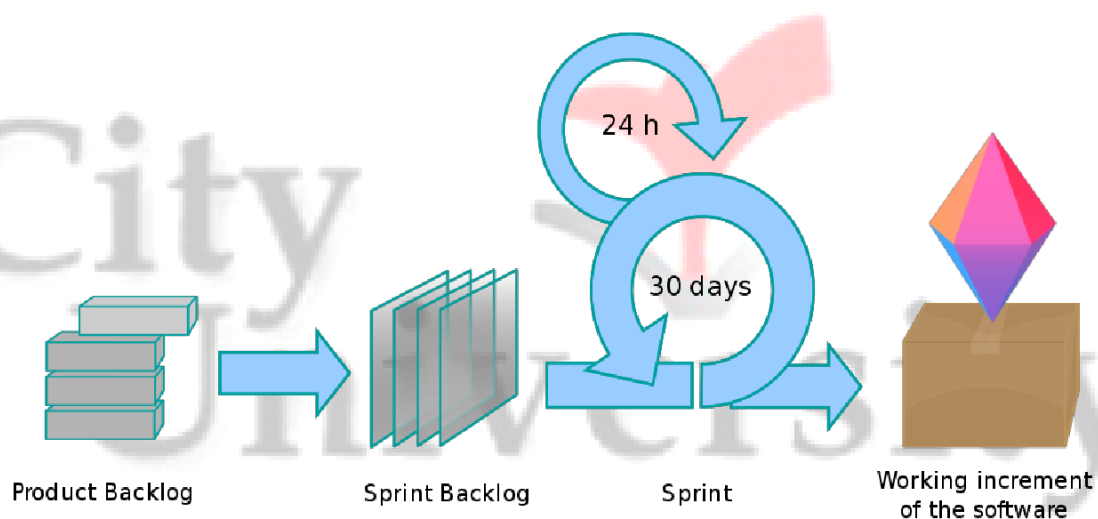
[Agile project management](#) Just as in [Agile Software Development](#), an Agile project is completed in small sections. These sections are called *iterations*. In Agile Software Development, for instance, an iteration refers to a single development cycle. Each section or iteration is reviewed and critiqued by the project team, which should include representatives of the project's various stakeholders. Insights gained from the critique of an iteration are used to determine what the next step should be in the project. The main benefit of Agile Project Management is its ability to respond to issues as they arise throughout the course of the project. Making a necessary change to a project at the right time can save resources and, ultimately, help deliver a successful project on time and within budget.

### The deliverables:

1. **Product vision statement:** A summary that articulates the goals for the product.
2. **Product roadmap:** The high-level view of the requirements needed to achieve the product vision.

3. **Product backlog:** Ordered by priority, this is the full list of what is needed to be done to complete your project.
4. **Release plan:** A timetable for the release of a working product.
5. **Sprint backlog:** The user stories (requirements), goals, and tasks linked to the current sprint.
6. **Increment:** The working product functionality that is presented to the stakeholders at the end of the sprint, and could potentially be given to the customer.

There are various frameworks within Agile project management that can be used to develop and deliver a product or service. While they each have their own set of



characteristics and terminology, they share common principles and practices. Two of the most popular ones that support the Agile development life cycle are Scrum and Kanban. (Muslihat)

## **References:**

<https://www.codeproject.com/Articles/704600/An-Introduction-to-Agile-Methodology>

<https://searchcio.techtarget.com/definition/Agile-project-management>