



Department of CSE

ASSIGNMENT NO = 01

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Course Title : System Analysis & Design

Assignment Name : Agile Development Methodology

Submitted By

ID : 171442515

Name : Md. Ziaul Hoque Rifat

Program : CSE (EVE)

Batch : 44th

SubmittedTo : Supta Richard Philip
Senior Lecturer,
Department of CSE City
University , Bangladesh

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Introduction

In the 1990s, [software development faced a bit of a crisis](#). Referred to as ‘the application development crisis’ or ‘application delivery lag’, the industry realized that it couldn’t move fast enough to meet customer demands and requirements—



the estimated time between a business need and actual application was about three years. See, traditional development models were based on a timeline approach, where development happened sequentially and the final product wasn't revealed to customers until the very final step. This left little room for flexibility when it came to progress reviews and changes. So, by the time an actual application was finished, it was highly likely that requirements and systems of the project's original objectives had changed. (Muslihat)

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

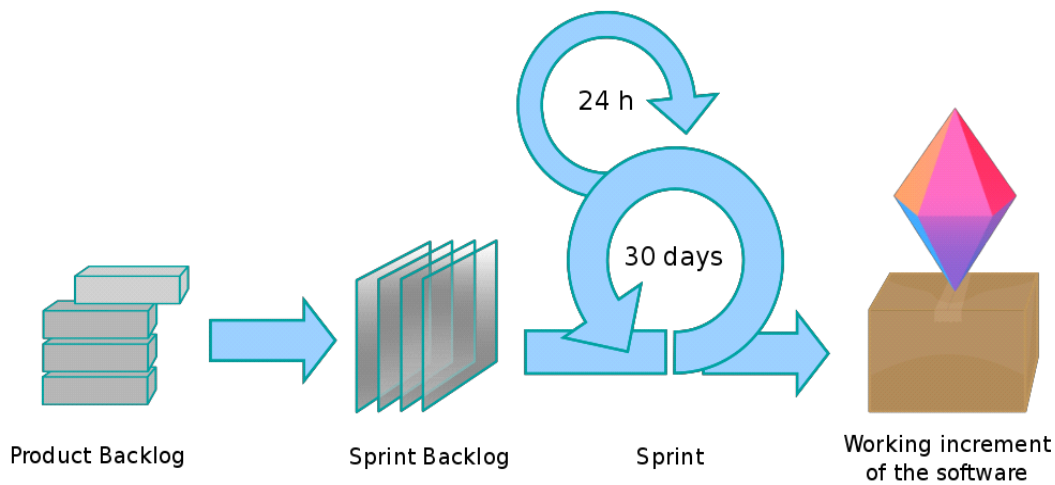
What is Agile project management?

[Agile project management](#) is a methodology that is commonly used to deliver complex projects due to its adaptiveness. It emphasizes collaboration, flexibility, continuous improvement, and high quality results. It aims to be

clear and measurable by using six main “deliverables” to track progress and create the product. (Muslihat)

The deliverables:

- **Product vision statement:** A summary that articulates the goals for the product.
- **Product roadmap:** The high-level view of the requirements needed to achieve the product vision.
- **Product backlog:** Ordered by priority, this is the full list of what is needed to be done to complete your project.
- **Release plan:** A timetable for the release of a working product.
- **Sprint backlog:** The user stories (requirements), goals, and tasks linked to the current sprint.
- **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:

Conrad, Andrew. [blog.capterra.com](https://blog.capterra.com/definition-of-agile-project-management/). 27 April 2018. 17 April 2019 <<https://blog.capterra.com/definition-of-agile-project-management/>>.

Muslihat, Dinnie. Zenkit Blog. 2 March 2018. 17 April 2019 <<https://zenkit.com/en/blog/agile-methodology-an-overview/>>.