**Assignment – 7**

**Write a summary on different Project Methodologies.**

A project management methodology is a system of principles, techniques, and procedures used by those who work in a discipline. Not only do the top methodologies differ in how they're structurally organized, but they also require different deliverables, workflows, and even project management software development.

**1. Agile**

What it is: The Agile project management methodology is one of the most common project management processes. But the reality is that Agile isn’t technically a methodology. Instead, it’s best defined as a project management principle.

The basis of an Agile approach is:

* Collaborative
* Fast and effective
* Iterative and data-backed
* Values individuals over processes

When it comes to putting the Agile manifesto in place, teams often choose specific methodologies to use alongside Agile.

**2. Waterfall**

The waterfall model is also a very popular framework. But unlike Agile, waterfall is an actual methodology that is rather straightforward. This methodology is also known as software development life cycle (SDLC), is a linear process in which work cascades down (similar to a waterfall) and is organized in sequential order.

**3. Scrum**

This methodology involves short “sprints” that are used to create a project cycle. These cycles span one to two weeks at a time and are organized with teams of 10 or less. This is different from the waterfall approach where individual tasks are broken down into dependencies.

Scum is unique for a variety of reasons, one being the use of a Scrum master. Or, in other words, a project manager that leads daily Scrum meetings, demos, sprints, and sprint retrospectives after each sprint is completed. These meetings aim to connect project stakeholders and ensure tasks are completed on time.

**4. Kanban**

What it is: The kanban methodology represents project backlogs using visual elements, specifically boards. This approach is used by Agile teams to better visualize workflows and project progress while decreasing the likelihood of bottlenecks. It’s also usually in the form of a software tool that allows you to change and drag boards seamlessly within projects, though it’s not a requirement.

Who should use it: Kanban boards are great for teams of all sizes and specifically remote-first teams. This is because the visual capabilities of Kanban boards help team members stay on track no matter where they are.

**5. Lean**

What it is: The lean project management methodology aims to cut waste and create a simple framework for project needs. This ultimately means doing more with less in order to maximize efficiency and teamwork.

While reducing waste originally referred to a physical product (which dates back to the method used by Henry Ford and later by Toyota and Motorola), it now refers to wasteful practices. There are three Ms that represent this: