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**ASSIGNMENT COVER SHEET**

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| Unit Name: | **Managing Software Development Projects** |
| Unit Code: | **PROG6001** |
| Tutor’s name: | **Mr. Tenzin Norbu** |
| Assignment No.: | **Assessment 2** |
| Assignment Title: | **GitHub and Reports** |
| Due date: | **27/11/2023** |
| Date submitted: | **27/11/2023** |

Declaration:

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# **Chapter 1 - Collaborative Project Using Git**

## **Project Brief**

This GitHub project was created to collaborate towards the assignment document of the Managing Software Development Projects unit (PROG6001). After adding the main files, the initial repository looks like the one below (see Figure 1).

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**Figure 1 - GitHub Repository**

There are two files included in the repository, mainly as follows.

* **Perth4\_PROG6001\_02.docx**: this is the project's main file, and all the team members will collaborate in this document.
* **README.md**: this is the readme file of the project, and this file contains unit details, team members’ info, and a description of the GitHub project.

Since this is a group project, three team members are involved in this project to collaborate towards the final document of the assignment (see Figure 2).

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**Figure 2 - Project Collaborators**

**ViranScu** is the one who created the repository, while **Dinesh** and **Udulitha** are the contributors to this project.

# **Chapter 2 -** **Software Development Methods, Processes, and**

# **Techniques**

## **2.1 Agile Mindset**

**Overview of Agile Mindset in Software Development**

Agile software development transcends mere frameworks and practices, evolving into a comprehensive mindset that emphasizes collaboration, adaptability, and continuous improvement. Unlike traditional methodologies, such as Waterfall, Agile is not confined to a specific set of rules; rather, it is an umbrella term encompassing various frameworks and practices aligned with the values and principles articulated in the Manifesto for Agile Software Development. <https://www.atlassian.com/agile>

**Agile Values and Principles:**

The foundation of Agile is laid out in the Manifesto for Agile Software Development and its accompanying 12 Principles. These values and principles guide how teams approach software development, change, and uncertainty. <https://www.atlassian.com/agile/manifesto>



Figure : Agile Manifesto (<https://www.atlassian.com/agile/manifesto>)

**People-Centric Approach:**

Agile is special because it really cares about the people who work together to create something. It believes in finding solutions by having teams that organize themselves and have different skills working together. It's not just about making a product; it's about how the team works and cooperates on the way to making something great.

**Agile as a Mindset:** [**https://www.agilealliance.org/agile101/**](https://www.agilealliance.org/agile101/)

Agile is not just a set of practices; it's a mindset informed by values and principles. When faced with uncertainty, Agile encourages trying something, obtaining feedback, and adjusting accordingly. The Agile mindset guides the choice of frameworks, practices, and techniques, emphasizing the importance of context in decision-making.



Figure : Agile mindset (https://mylifenotesweb.wordpress.com/2019/04/18/breaking-an-agile-mindset-down/)

**The Agile Mindset in Practice:** [**https://www.atlassian.com/agile/advantage/agile-mindset**](https://www.atlassian.com/agile/advantage/agile-mindset)

The agile mindset isn't something you pick up once and you're done. It's more like a continuous way of thinking. It involves understanding, collaborating, learning, and staying flexible to achieve high-performing results. When teams really get why they're doing things the agile way, the way they do things falls into place and suits what the team needs.

**Four Pillars of the Agile Mindset:** [**https://www.atlassian.com/agile/advantage/agile-mindset**](https://www.atlassian.com/agile/advantage/agile-mindset)

Respect for All Team Members:

* Emphasizes the essential role of every team member.
* Fosters a culture of respect and psychological safety.
* Encourages open collaboration and contribution.

Optimized and Sustainable Flow:

* Focuses on incremental delivery, reduced batch sizes, and continuous improvement.
* Maximizes value and minimizes waste.
* Enables efficient responses to defects and avoids major delays.

Encourage Team Innovation:

* Drives innovation through collaborative feedback, new ideas, and experimentation.
* Provides freedom for team members to find improved solutions.
* Values creativity and different approaches.

Focus on Relentless Improvement:

* Cultivates a continuous improvement mindset.
* Utilizes retrospectives for reflection and refinement.
* Creates a balance between structure and innovation.

The Agile mindset is like changing the way we think about making software. It's not just about following certain rules; it's more about working together, being flexible, and always trying to get better. To unleash the full power of Agile methodologies, teams must embrace the Agile mindset, cultivating respect, optimizing workflow, encouraging innovation, and maintaining a relentless focus on improvement. In doing so, teams can navigate the dynamic landscape of software development with agility and deliver high-value, customer-centric solutions.

# **References**

<https://www.atlassian.com/agile/manifesto>

<https://www.atlassian.com/agile/advantage/agile-mindset>

<https://www.agilealliance.org/agile101/>

<https://mylifenotesweb.wordpress.com/2019/04/18/breaking-an-agile-mindset-down/>