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**ASSIGNMENT COVER SHEET**

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| --- | --- |
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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:

*I have read and understand the Rules Relating to Awards (*[*Rule 3 Section 18 – Academic Misconduct Including Plagiarism*](http://policies.scu.edu.au/view.current.php?id=00140#s18)*) as contained in the SCU Policy Library. I know the penalties that apply for plagiarism and agree to be bound by these rules. The work I am submitting electronically is entirely my own work.*

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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**

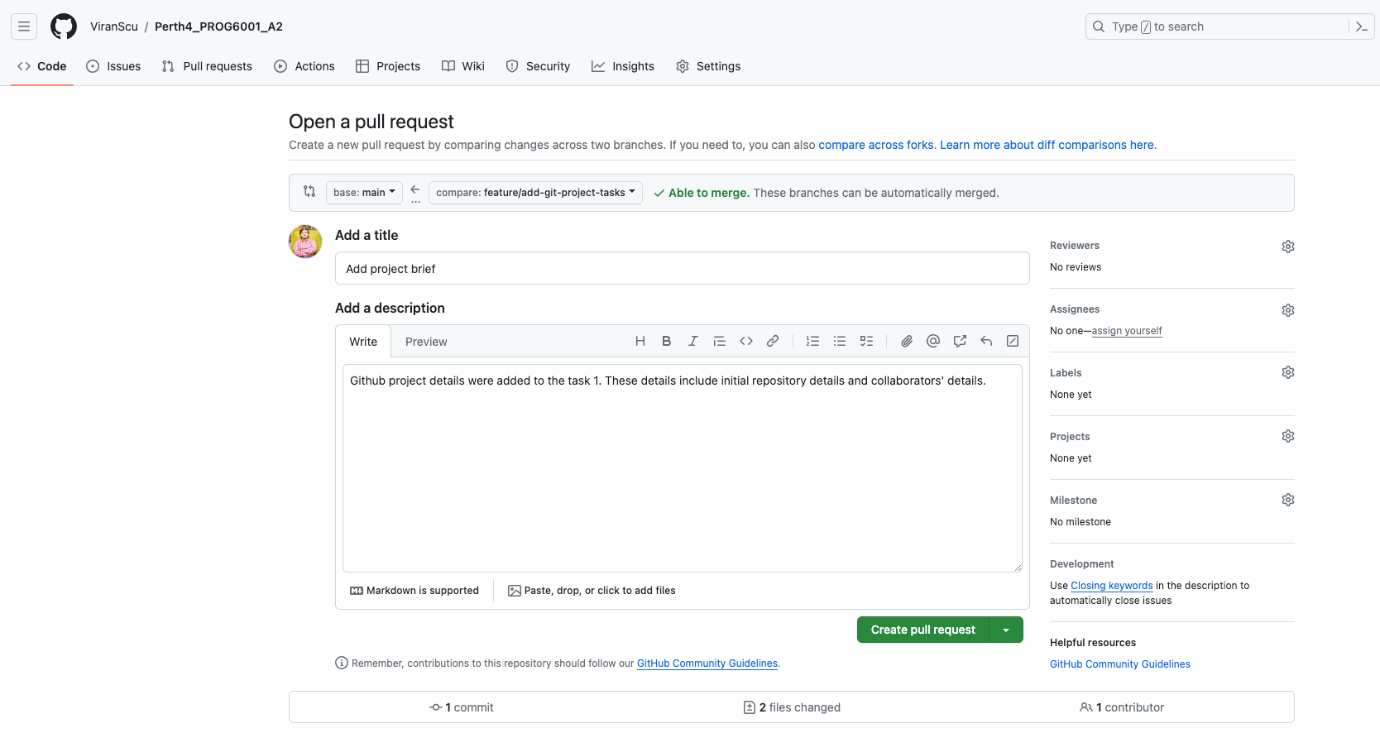
**ViranScu** is the person who created the repository, while **Dinesh** and **Udulitha** are the contributors to this project.

## **Team member 1 (Viran Pravinda) tasks**

### **Task 1: Add project brief section to chapter 1**

This task explains the files in the GitHub repository and the project collaborators. Refer to Figure 3 and Figure 4 for the pull request and final task merge.

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**Figure 3 – Pull request for adding project brief task.**

**Figure 4 – Final merge for adding project brief task.**

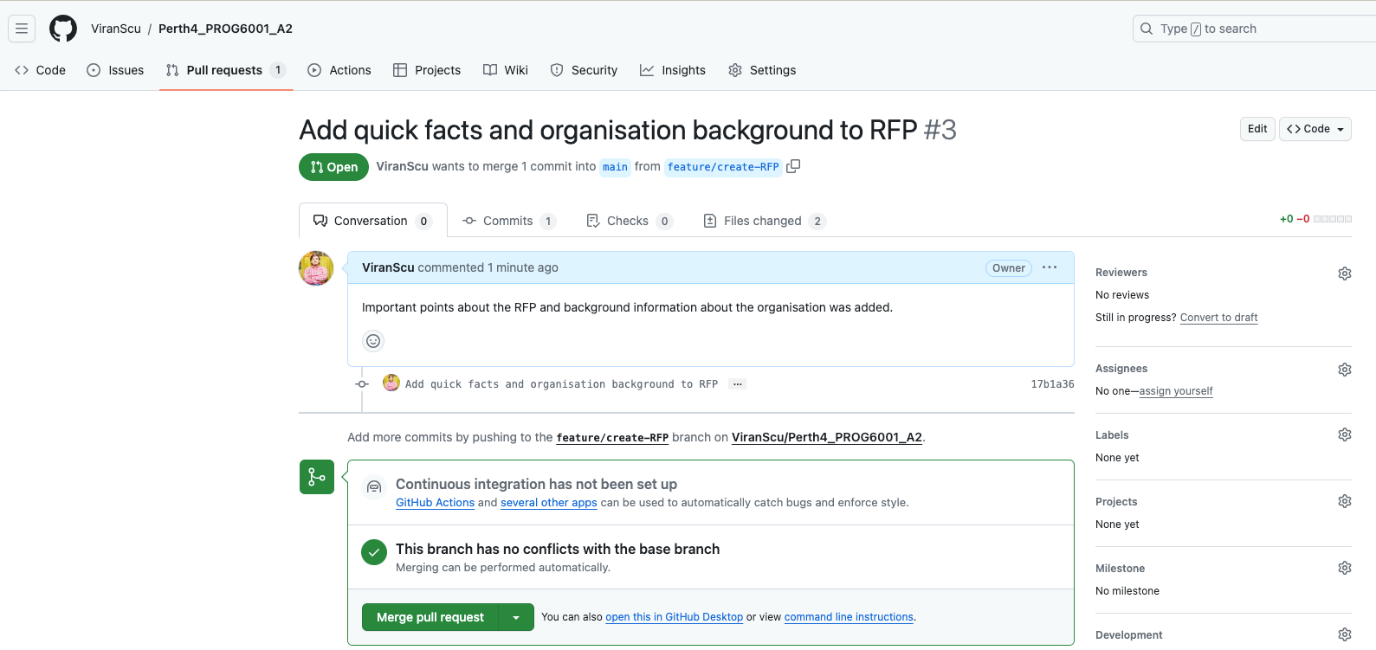
### **Task 2: Add quick facts and organisation background to RFP**

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Description automatically generatedThis task involves adding details about the quick facts and organisation background to the Request for Proposal (RFP). See Figure 5 and Figure 6 for the pull request and the final merge of the task.

**Figure 5 - Pull request for adding quick facts and organisation background to RFP.**

**Figure 6 - Final merge for adding quick facts and organisation background to RFP task.**



### **Task 3: Add contact info and RFP process schedule to RFP**

This task involves adding contact info for the point of contact for vendors and scheduling for the proposal process. Refer to Figure 7 and Figure 8 for the pull request and final task merge.

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**Figure 7 – Pull request for adding contact info and RFP process schedule task.**

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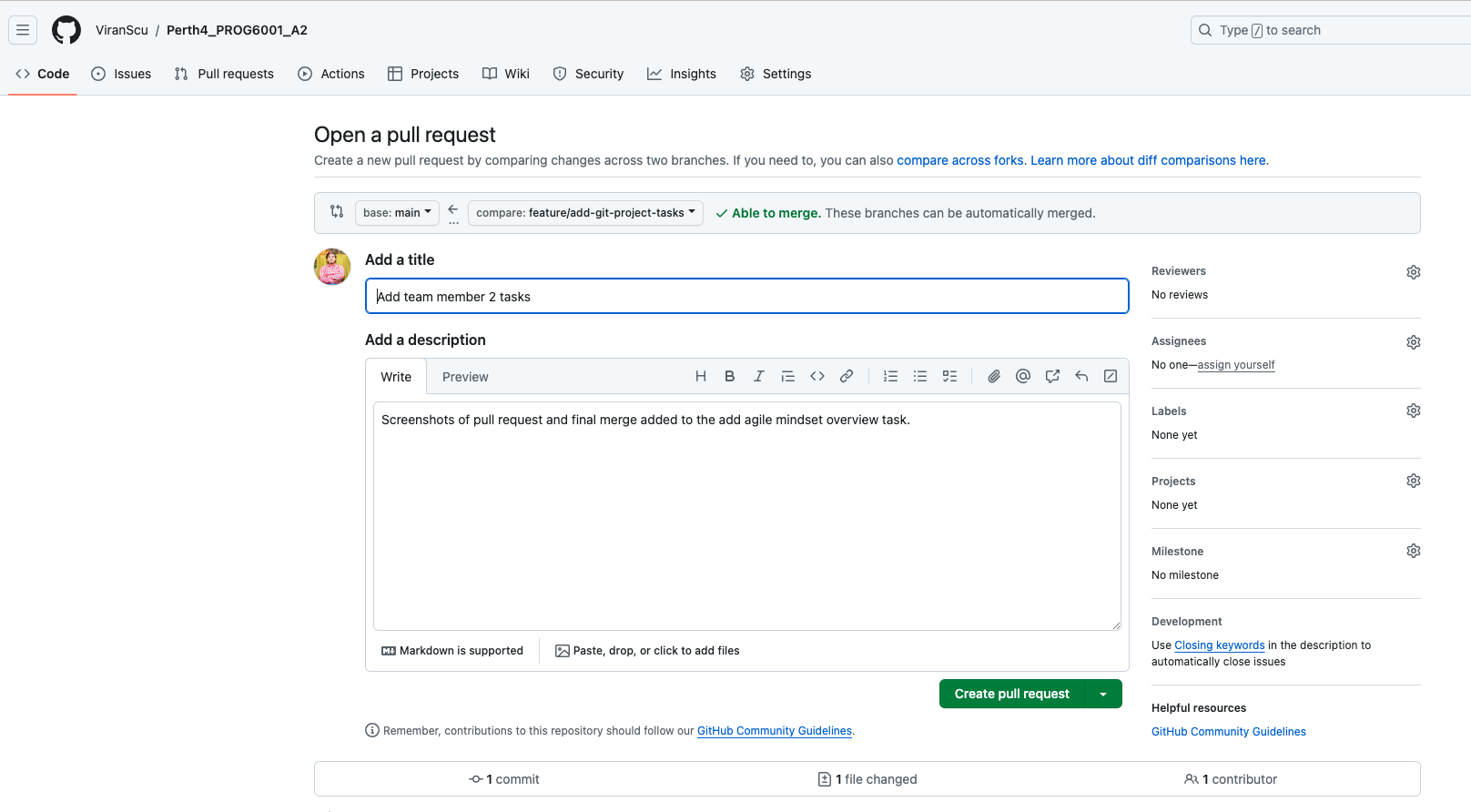
**Figure 8 - Final merge for adding contact info and RFP process schedule task.**

### **Task 4: Add Team member 2 tasks to chapter 1**

This task involves adding team member 2 tasks to chapter 1. Also, includes screenshots of the pull requests and final merges of specific tasks related team member 2. Refer to Figure 9 and Figure 10 for the pull request and the final merge of the task.

**Figure 9 - Pull request for adding team member 2 tasks.**

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**Figure 10 - Final merge for add team member 2 tasks.**

## **Team member 2 (Sanduni Udulitha) tasks**

### **Task 1: Fork repository**

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Description automatically generatedUse the GitHub Fork feature to create a personal copy of the main project created by another user (ViranScu). See Figure 11 on creating a new fork.

**Figure 11 - Create fork**

### **Task 2: Add agile mindset overview to chapter 3**

This task involves discussing the agile mindset overview for the “Software development methods, processes, and techniques” chapter. See Figure 12 and Figure 13 for the pull request and the final merge of the task.

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**Figure 13 – Final merge for add agile mindset overview task.**

**Figure 12 – Pull request for add agile mindset overview task.**

## **Team member 3 (Dinesh Madumal) tasks**

### **Task 1: Fork repository**

This task involves creating a personal copy of the main project created by another user (ViranScu). See Figure 14 for the screenshot of creating a new fork.

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**Figure 14 - Create fork**

# **Chapter 2 – Request for Proposal (RFP)**

## **Request for Proposal (RFP): Integrated Business System for Aussie Business Buzz (ABB)**

|  |  |
| --- | --- |
| **Quick facts** | Please take note of the below information.   * **Project type**: Integrated Business Management System (IBMS) * **Level of confidentiality**: Confidential * **Response deadline**: 1-Dec-2023 5.00 pm (AWST) |
| **Organisation background** | Aussie Business Buzz (ABB) was established in 2002 in Perth, Western Australia. We have been pioneers in technology products for more than two decades now. The company sells various technology products, including PCs, laptops, phones, routers, etc. In addition to product sales, ABB offers device repairs and mobile device accessories. We have four branch shops and plan to expand our business to many other locations in Australia. |
| **Contact information** | Please get in touch with the below person for any questions.   * **Contact person**: Matt Davids * **Title:** Chief Executive Officer * **Phone**: (+61) 4 34587569 * **Email**: [matt.davids@abb.com.au](mailto:matt.davids@abb.com.au) * **Address**: 570 ABC Street, Perth, WA 6000 |
| **Schedule for the RFP process** | Please refer to the RFP schedule below.   * November 27, 2023: RFP announced/sent * December 1, 2023: Deadline to RSVP participation * December 4 – 8, 2023: Conference calls with vendors to discuss RFP * December 22, 2023: Deadline for vendors to submit proposals * January 8, 2024: Selection of finalists * January 15 - 19, 2024: Vendor finalist presentations * January 24, 2024: Final vendor selected * February 5, 2024: Targeted project start date |
| **Criteria for Decision-Making** | Aussie Business Buzz (ABB) staff will review submitted proposals and select vendors based on the following criteria.   * **Technical Suitability**: How well the proposed solution aligns with the specified requirements. * **Cost Proposal**: Clear breakdown of costs, including development, maintenance, and ongoing support * **Experience and Reputation**: History of successfully delivering similar solutions and references. * **Scalability**: Capability of the solution to accommodate future growth and evolving needs * **Support and Maintenance**: Proposed plan for continuous support and maintenance * **Innovation**: Creative ideas or features that contribute value beyond the outlined requirements |
| **Basic Summary of the Project/Initiative** |  |

# **Chapter 3 -** **Software Development Methods, Processes and Techniques**

## **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/>