

**PROG6001 Managing Software Development Projects**

**Group 1 - ASSESSMENT 2**

**Group No:** \_1\_\_

**Students Details: Arun Guni (24247878) – Member 1**

**: Gowri Shankar Makineni (24415125) – Member 2**

**: Mohamed Aakil Ahamed Ruwais (24440321) – Member 3**

**Unit Name: Managing Software Development Projects**

**Unit Code: PROG6001**

**Assignment No.: Assignment 2,**

**Assignment Title: Project report**

**Due date: 08/04/2025**

**Date submitted: 08/04/2025**

Table of Contents

[1. PART A: Collaboration Development Using GitHub 3](#_Toc194841544)

[1.1. Introduction 3](#_Toc194841545)

[1.2. Creating Repository and Initial Setup 3](#_Toc194841546)

[1.3. Forking and Individual Contributions 4](#_Toc194841547)

[1.4. Merging Changes into Main Repository 4](#_Toc194841548)

[1.5. Tasks Allocation and Schedule in Jira 5](#_Toc194841549)

[1.6. Conclusion 5](#_Toc194841550)

[2. Part B: Request for Proposal (RFP) 5](#_Toc194841551)

[2.1. Purpose of RFP 6](#_Toc194841552)

[2.2. System Description 6](#_Toc194841553)

[2.3. Proposal Evaluation 6](#_Toc194841554)

[2.4. Question Handling 6](#_Toc194841555)

[2.5. Additional Information 6](#_Toc194841556)

[3. Part C: Software Project Management Methodologies 6](#_Toc194841557)

[3.1. Introduction 6](#_Toc194841558)

[3.2. Overview of the Agile Mindset 6](#_Toc194841559)

[3.3. Scrum and Waterfall Methodologies 6](#_Toc194841560)

[3.4. Guidelines for Methodology Selection 6](#_Toc194841561)

[3.5. Conclusion 6](#_Toc194841562)

[4. References 6](#_Toc194841563)

# PART A: Collaboration Development Using GitHub

# Introduction

# Creating Repository and Initial Setup

Creating Repository and initial setup of project in GitHub was assigned to Team Leader as per the report guidelines. Similarly, inviting team members as contributors and adding document file of the project report to the repository, and finally merging the changes to the main repository.

* Created GitHub repository for project PayID-Scanner with name PayID-Scanner-Group1, added README.md file with information of the project.

A screenshot of a computer

AI-generated content may be incorrect.

* Invited team members to the GitHub repository to contribute to the project

A screenshot of a computer

AI-generated content may be incorrect.

* Added report file to the repository and made a pull request for team members.

A screenshot of a computer

AI-generated content may be incorrect.

# Forking and Individual Contributions

Member 1’s Contribution:

* Created the repository named “ PayID-Scanner-Group1” and initialized with README.md file, along with project report document file.
* Updated report file with required table of contents and pushed into the main branch of the repository.
* Updated readme.md file with heading and general description of the project and pushed changes to the main repository.
* Further contributed to the project following the task allocated in Jira.

A screenshot of a computer

AI-generated content may be incorrect.

Member 2’s Contribution:

* Forked PayID-Scanner-Group1 repository successfully.

Member3’s Contribution:

# Merging Changes into Main Repository

* Members 2 and 3 were assigned to create branch with feature-autofill and feature-UI, both members 2 and 3 pushed changes to the created branches. Member 1 merged the branch feature-autofill and feature-UI with the main branch of the repository.

A screenshot of a computer

AI-generated content may be incorrect.

* Changes from both members 2 and 3 were merged to the main branch of the repository by member 1, and further changes were made.

A screenshot of a computer

AI-generated content may be incorrect.

# Tasks Allocation and Sprints in Jira

Team Leader (Member 1) allocated tasks among team members and created 2 weeks sprint in Jira for systematic completion of the project and team collaboration.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

# Conclusion

# Part B: Request for Proposal (RFP)

**Aussie Business Buzz (ABB)**

**Integrated Business Management System**

**Date Issued:** March 20, 2025

**Submission Deadline:** April 7, 2025

**Contact:** Timmy Higgins, Procurement Manager, [procurement@abb.com.au](mailto:procurement@abb.com.au)

# Purpose of RFP

# System Description

# Proposal Evaluation

Aussie Business Buzz (ABB) will systematically evaluate each, and every proposal submitted, evaluating and determining the optimal solution, providing value to both organisational goal and budget. Below are the basic criteria of evaluation of submitted proposals:

* Budget-friendly: Proposals are expected to be budget friendly and demonstrate competitive initial.
* Integration: Proposed solution must align with the organizational existing system and compatible with the current website and record of stock. If one proposes a replacement of the system, a justification with possible evidence must be provided.
* Scalability: The proposed system must be able to expand up to 4 or more branches seamlessly.
* Usability: The system must have simple and clean user interface where staff will require minimal training.
* Support Services: Suppliers capable of providing training and troubleshooting, will be given higher preferences.

Following the above procedure will provide the proposal with balanced approach and align with the main objective of this RFP. For example, in order to address the required repairment of inventory in specialized approach of ABB, bespoke stock management system can be effective rather than software-as-a-service(SaaS) marketing solution for continuous integration. A hybrid model providing flexibility might be a better option by integrating both custom and commercial elements. As long as the proposed system ensure long-term value, along with scalability and flexibility, it will be considered. This way, the requirement of ABB in developing a custom system, leveraging the innovation for inter-branch stock management or off-the-shelf database for efficiency will be achieved.

# Question Handling

# Additional Information

# Part C: Software Project Management Methodologies

# Introduction

# Overview of the Agile Mindset

# Scrum and Waterfall Methodologies

**Scrum:**

Scrum is an agile framework utilized in the development process to organise the iterations into time-boxed manner known as sprints which lasts around 2-4 weeks. Scrum is a lightweight framework used to generate value through adaptive solutions for complex problems by people, teams, and organizations. Scrum Team consists of mainly three parties: Developers, Product Owner and Scrum Master. Developers are the ones who creates the aspects of each sprint, the sprints backlog, and sprint’s goal. Product Owner are responsible for maximizing the outcome from the work of the scrum team which requires, explicitly communicating the product goal, communicating product backlog, ordering backlog items and ensuring the transparency. Scrum Masters are the true leaders who establishes Scum. Scrum Master is responsible for keeping the Scum Team within the Scrum framework and making them improve its practices. Also, they are responsible for helping Scrum Team focus on developing high value increments that meet the Definition of Done (*Scrum Guides*, 2020). Scrum provides the adaptability feature, due to which it is suitable for dynamic projects, where the requirement of the user may vary as the system evolves.

Waterfall:

Waterfall methodology is a sequential, well-established project management workflow, where five different phases cascades downward sequentially like a waterfall. Stages of waterfall are requirements, design, implementation, verification, and maintenance. Requirement phase states the objective of the project, design phase develops a solution to meet the requirement, implementation phase builds the system with specifications, verification phase verifies the quality of the developed system, and maintenance phase is for addressing any issues that arises after releasing the system to users. In waterfall methodology one phase must be completed before proceeding to another method which doesn’t allow flexibility to the team. Due to its clear project structure, it provides a sight to end goal which favours in use of this methodology. In waterfall model there is less cross-functional work where team can easily track the progress of development faster (Atlassian, n.d.). Despite the linear credit for this model, these advantages make developers to use this model in their development process.

# Guidelines for Methodology Selection

# Conclusion

# References

Atlassian, B. (n.d.). *Waterfall Methodology for Project Management | Atlassian*. Atlassian. <https://www.atlassian.com/agile/project-management/waterfall-methodology>

*Scrum guides*. (2020). Retrieved April 1, 2025, from <https://scrumguides.org/scrum-guide.html>