# PROG6001 Managing Software Development Projects – Assessment 2

# Task 1:

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

Issued by Aussie Business Buzz (ABB)

Date of Issue: 20 November 2023

Proposal Submission Deadline: 30 November 2023

Aussie Business Buzz is a dynamic enterprise in the technology product sector that is excited to invite proposals for the development and implementation of an integrated system. Our vision encompasses the support of our current four branch shops with the flexibility to accommodate future expansion. The imagined system should be a confluence of a Customer Relations Database and must a Digital Marketing System along with a Stock Management System and Management Reporting tools.

**System Description:** The main objective of this RFP is the development of a system that integrates several key business functions. Predominantly, a robust Customer Relations Database is sought to manage a list of customer details including their purchase history and records of devices entrusted to us for repairs. Additionally, the system should incorporate a dynamic Digital Marketing System. This system should make use of the customer relations database and allow integration of prospective customers' details from our existing website. It is considered equally valuable for the implementation of a Stock Management System which can handle our diverse inventory including products for sale and parts for repairs. This system should facilitate automated ordering from wholesalers and allow inter-branch stock checks and transfers. Furthermore, the development of comprehensive Management Reporting tools is necessary. These tools should provide our management team, who may be located at any of our branches, with real-time updates on all aspects of our operations.

**Proposal Evaluation Criteria:** Proposals submitted will be evaluated on a scale of criteria. The ability of the proposal to comprehensively meet our system requirements will be vital. We are particularly interested in solutions that offer scalability and flexibility to adapt to our growing business needs. It must be evaluated based on cost-effectiveness and without compromising on the quality and efficiency of the solution, will be a key consideration. We also place high value on innovative solutions that bring creativity and modern techniques into production. The experience and reputation of the vendor, evidenced by a track record of successfully handling similar projects, will be considered.

**Process for Answering Questions:** To facilitate clear communication we will organize a dedicated question-and-answer session following the initial review of the proposals. Vendors are encouraged to submit their queries via email by a specified deadline. All inquiries and responses will be compiled and shared with all potential vendors to ensure a transparent and equitable information-sharing process.

# Task 2

## Overview of the Agile Mindset

The Agile mindset in software development is centered around flexibility as well as collaboration, and responsiveness to change. This approach contrasts with traditional methodologies by emphasizing iterative development where requirements and solutions evolve through collaboration between self-organizing and cross-functional teams. Agile methodologies such as Scrum to promote adaptive planning along with evolutionary development to make early delivery and continuous improvement. They also prioritize a rapid and flexible response to change for making them suitable for projects with evolving requirements or those in rapidly changing environments.

## Description of the Scrum Process and the Waterfall Methodology

**Scrum** is known as an Agile framework that organizes work into small to manageable chunks known as sprints typically lasting two to four weeks. During these sprints, cross-functional teams work collaboratively to deliver specific features or product increments. Key roles in Scrum include the Product Owner who defines the product vision the Scrum Master who facilitates the process and the development team. Scrum emphasizes regular reflection and adaptation with frequent meetings and reviews to adjust to changing requirements and priorities.

In contrast, the **Waterfall methodology** is a linear and sequential approach. It is characterized by a series of phases: i) requirements gathering ii) design iii) implementation iv) verification and maintenance with each phase completed before the next begins. This approach is often considered more rigid as it typically does not accommodate changes once a phase is completed. Waterfall is more appropriate for projects with exact results and outcomes are expected without changing requirements and a comprehensive plan can be executed without the need for significant changes.