Assessment Brief (A2)

Assessment Details

Unit Code Title	ISYS3001
Assessment #	Assessment 2
Assessment Type	Practical (Software Development Project with Configuration and Procurement Management)
Due Date	29 September 2025 11:59 pm AEST/AEDT (Monday of Week 5)
Grades Release	Approximately 1 week after the submission date
Weight	40%
Length / Duration	2,000 words
Individual / Group	Individual
Unit Learning Outcomes (ULOS)	This assessment evaluates your achievement of the following Unit Learning Outcomes: ULO2, ULO3 ULO2: apply management and maintenance techniques for software development projects ULO3: classify and write software procurement specifications
GenAI Use Level	Level 2. Purpose-Specific GenAI Use Permitted See 'Academic Integrity' section below

Rationale

Configuration management ensures that software development teams can effectively manage and control changes to software artifacts throughout their lifecycle. This helps maintain consistency, reliability, and version control, which are essential for collaborative development efforts and ensuring that software releases meet quality standards. On the other hand, procurement management in software involves acquiring the necessary tools, components, and services efficiently. By mastering procurement management, software teams can optimize resource allocation, reduce costs, and minimize risks associated with delays or inadequate resources.

This assignment provides you with opportunity to gain these skills. As a future IT professional, these skills empower you to streamline software development processes, enhance product quality, and deliver projects on time and within budget, thereby maximizing organizational efficiency and competitiveness in the dynamic software industry.

Task Description

In this assignment, you will develop a small software application while applying configuration management practices and simulating procurement management processes. The application will be a simple web application of your choice. You will apply version control and configuration management tools to manage the app development and deployment process. You will also simulate the procurement process to acquire necessary software tools and services for the app.

Instructions

This assignment and assignment 3 are part of the same software development project. Therefore, you should start the assignment 2 and 3 together from week 1.

Consider the following general guidelines in completing the assignment:

1. Configuration Management:

- Use a version control system (e.g., Git) to manage source code.
- Implement branching strategies (e.g., feature branches, main branch).
- Implement strategies to manage application settings and deployment configurations.
- Ensure proper documentation of changes, including commit messages and change logs.

2: Procurement Management:

- Identify the software tools and services required for the project (e.g., libraries, frameworks, hosting services).
- Research and select appropriate tools and services, considering factors such as cost, features, and compatibility.
- Create a request for procurement (RFP) detailing the selected tools/services, their purpose, and the procurement process.

3. Deliverables:

Project Repository:

- A Git repository with the complete source code of the web application.
- Clear commit history demonstrating the use of version control and branching strategies.
- Configuration management scripts or files used for deployment.

Documentation:

- A project report detailing the configuration management practices implemented, including branching strategy, version control usage, and deployment configuration. Provide access to the Git repository and screen shots to demonstrate your activities.
- A request for procurement (RFP) for the required tools/services with the required details. Any details from the intended vendors, which cannot be obtained from their public website can be skipped in this assignment.

Important notes:

You will need a GitHub account to complete the assignment. Remember to provice your GitHub account name with your submission so that the marker can confirm your project activity. Remember that your name will be public, please do not disclose any personal information. Do not place your student ID in the GitHub document or elsewhere in the project. As this only requires your GitHub account name it will not be counted among the word count.

Deliverables & Submissions

Submit the work to the provided submission link on the Blackboard learning site. You will submit all documents as specified in the deliverables section. Note that you don't need to submit the repository but the link to the GitHub repository. Name the pdf file using the following naming convention:

- Your_StudentID_ISYS3001_Configuration_Management.pdf
- Your_StudentID_ISYS3001_Procurement_Plan.pdf

Resources

To complete the task, you are recommended to:

- Study modules 1- 4 materials and take an active role in the weekly tutorial and workshop. The workshop and tutorial activities will take you through the steps and tools to complate software configuration and procurement managent practices.

Formatting and style

- Use 12-point Arial font and 1.5 line spacing for clarity.

Referencing

When you use content from different sources, in-text citations and referencing are required. You may use **APA 7th ed. referencing style** when writing your report, but you need to use it consistently in all assessments. Refer to the SCU Library Guides for further guidance.

Generative Artificial Intelligence (GenAI) Guidelines

For this assessment, GenAI tools **Level 2** may be **used for specific assessment tasks or purposes as identified and scaffolded by the Unit Assessor**.

This assessment permits limited use of Generative AI tools (Level 2).

You **may** use GenAI to:

- Brainstorming ideas or ideating
- Checking grammar
- Paraphrasing, editing tone or clarity
- Formatting document
- Formatting references or citations
- Designing layout templates

You **may not** use GenAI to:

- Create your report
- Generate text and copy and paste it into your report

For further information regarding conditions of use, speak to the Unit Assessor and refer to Generative AI for Students.

GenAI Use Declaration

You **must include one of the following statements** in your final submission, depending on whether or not you used Generative AI (GenAI) tools for this assessment.

A. If you **DID** use GenAI tools, include this statement:

*I acknowledge that I have used GenAI tools to complete this assessment. I used <**GenAI tool(s)**> to <**specific purpose(s) of using GenAI**> within the parameters outlined in the Assessment Brief and by the Unit Assessor.*

B. If you **DID NOT** use GenAI tools, include this statement:

I acknowledge that I have not knowingly used GenAI to complete this assessment.

IMPORTANT: Misuse of GenAI or failure to acknowledge its use may breach academic integrity rules. The Unit Assessor may also ask you to describe or demonstrate which GenAI tools you used, how you used them, and how your use complied with the assessment guidelines. Be ready to discuss this if asked.

Rules relating to Assessment and Examination

For further information regarding; extensions, special consideration, late submissions, resubmissions, grades, appeals and academic integrity, please refer to: Rules Relating to Awards - Rule 3 - Coursework Awards - Student Assessment and Examinations and How to apply for Special Consideration.

Academic Integrity Declaration

By submitting this assessment, I declare that:

I have read and understood SCU's Academic Integrity policies and referencing guidelines. I am aware of the consequences of academic misconduct and confirm that this submission is my own original work, referenced appropriately, and has not been previously submitted. I authorise its reproduction for authentication purposes and understand the implications of a false declaration. I have adhered to guidelines regarding Generative AI.

Special Consideration

Please refer to the Special Consideration section of the Policy.
https://policies.scu.edu.au/document/view-current.php?id=140

Late Submissions & Penalties

Please refer to the Late Submission & Penalties section of the Policy.
https://policies.scu.edu.au/view.current.php?id=00255

Grades & Feedback

Assessments that have been submitted by the due date will receive an SCU grade. Grades and feedback will be posted to the 'Grades and Feedback' section on the Blackboard unit site. Please allow 7 days for marks to be published.

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Assessment Rubric

Criteria	High Distinction (85–100%)	Distinction (75–84%)	Credit (65–74%)	Pass (50–64%)	Fail (0-49%)
Management and maintenance techniques for software development projects (30%) **ULO2**	Demonstrated an outstanding software management and maintenance techniques as evidenced by an exceptional organisation of the project repository, a well-planed and systematic management of software artifacts, and effective deployment configurations, showing mastery of configuration management best practices.	Demonstrated proficiency in software management and maintenance techniques as evidenced by an excellent organisation of the project repository, a systematic management of software artifacts, and effective deployment configurations, showing proficiency in configuration management best practices.	Demonstrated satisfactory in software management and maintenance techniques as evidenced by a good organisation of the project repository and software artifacts. The management practice in general systematic but lack of planning and application of best practices.	Demonstrated competency in software management and maintenance techniques as evidenced by a sufficient organisation of the project repository and software artifacts. However, the management practice was not done in a systematic way and no evidence of management best practices were applied.	Demonstrated incompetency in software management and maintenance techniques as evidenced by a poor organisation of the project repository and software artefacts.
Use of version control tools in configuration management practices (20%) **ULO2**	Exhibites mastery of version control tools by utilizing numerous advanced features to effectively manage software versions.	Demonstrated proficiency in version control tools as evidenced by the use of some advanced features of the tools to manage versions of the software.	Demonstrates satisfactory use of version control tools as evidenced by the use of basic features of the tools to manage versions of the software.	Demonstrated competency in version control tools as evidenced by the use of some basic features of the tools to successfully manage versions of the software.	Incompetence use of version control tools as evidenced by no or little use of basic features of the tools to successfully manage versions of the software.
Procurement planning and procurement process (40%) **ULO3**	Demonstrated mastery of procurement planning and processing as evidenced by an exceptional request for procurement with highly detailed and convincing specifications and selection criteria for the vendors and requested products and/or services.	Demonstrated proficiency in procurement planning and processing as evidenced by a very good request for procurement with sufficient detailed and convincing specifications and selection criteria for the vendors and requested products and/or services.	Showed satisfactory procurement planning and processing, evidenced by a good request for procurement with generally sufficient details for the execution. However, the product/service specification and/or the vendor selection criteria may have a minor issue.	Displayed competency in procurement planning and processing with a request for procurement that includes adequate information for the execution. However, the product/service specification and/or the vendor selection criteria may have a major minor issue that could impact the product/service or vendor selection process.	Incompetent procurement planning and processing as evidenced by a poor request for procurement with no or little details for the execution.

Clarity and thoroughness of documentation (10%) **ULO3**	Documentation is exceptionally clear, thorough, and detailed; highly organized and easy to understand, exceeding expectations.	Documentation is very clear, comprehensive, and well-organized; covers all essential details thoroughly.	Documentation is clear and complete, covering most essential details; generally easy to understand.	Documentation is present but lacks clarity and thoroughness; important details are missing or poorly explained.	Documentation is unclear, incomplete, and lacks essential details; difficult to understand.

Description of SCU Grades

High Distinction:

The student's performance, in addition to satisfying all of the basic learning requirements, demonstrates distinctive insight and ability in researching, analysing and applying relevant skills and concepts, and shows exceptional ability to synthesise, integrate and evaluate knowledge. The student's performance could be described as outstanding in relation to the learning requirements specified.

Distinction:

The student's performance, in addition to satisfying all of the basic learning requirements, demonstrates distinctive insight and ability in researching, analysing and applying relevant skills and concepts, and shows a well-developed ability to synthesise, integrate and evaluate knowledge. The student's performance could be described as distinguished in relation to the learning requirements specified.

Credit:

The student's performance, in addition to satisfying all of the basic learning requirements specified, demonstrates insight and ability in researching, analysing and applying relevant skills and concepts. The student's performance could be described as competent in relation to the learning requirements specified.

Pass:

The student's performance satisfies all of the basic learning requirements specified and provides a sound basis for proceeding to higher-level studies in the subject area. The student's performance could be described as satisfactory in relation to the learning requirements specified.

Fail:

The student's performance fails to satisfy the learning requirements specified.