**ASSIGNMENT COVER SHEET**

For use with online submission of assignments

Please complete all of the following details and then make this sheet the **first page of each file of your assignment – do not send it as a separate document.**

Your assignments must be submitted as either **Word documents, text documents with .rtf extension or as .pdf documents**. If you wish tosubmit in any other file format please discuss this with your lecturer well before theassignment submission date.

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| Student ID No.: | **24009191** |
| Unit Name: | ISYS3001 Managing Software Development |
| Unit Code: | ISYS3001 |
| Tutor’s name: | **Babu Pillai** |
| Assignment No.: | Assessment 2 |
| Assignment Title: | Practical Skills |
| Due date: | 18 September 2023 11:59 PM (AEST) |
| Date submitted: | **18 /09/2023** |

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 understand 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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| Signed: | Samyog Dahal |
| (please type your name) |  |
| Date: | 10/9/2023 |

**Change Management:**

* Implement a structured change management models based on research and experience.
* Implement a change management process to effectively handle bug fixes, feature requests, and other change requests. This process should prioritize, and track changes based on their impact, urgency, and alignment with project goals.
* Assign roles and responsibilities for change management, ensuring that requests are reviewed, approved, and communicated efficiently.
* Establish clear communication channels to facilitate collaboration among developers, users, and other stakeholders in proposing and managing changes.

**Version Management:**

* Utilize version control systems like Git to manage the various versions of system components, such as source files, media objects, and documentation.
* In each change of file in the code line their versions should be mentioned.
* Recording the baseline configuration of specific versions in the code line corresponding to changes to the file.
* When merging files, automatic merging may fail due to conflicting changes. In such cases, a manual merge is performed, either enforced on the second person checking in or by the project manager, to resolve conflicts.
* A notification of a push operation alerts the integration manager about a developer's changes. If approved, a pull operation loads these changes into the main repository, creating the next baseline for future clones.

**System Building:**

* Implementing frequent system building that is vital for detecting issues caused by multiple developers’ changes.
* For complex systems or when testing is time-consuming, adopt a daily build process to maintain system integrity and streamline development.
* Set and communicate daily submission deadlines for developers to contribute their changes, promoting a consistent and organized workflow.
* Devote adequate resources to comprehensive testing, including both manual and automated tests, to maintain system reliability during frequent builds.
* Foster a culture where developers are motivated to promptly address issues that arise during system builds, ensuring the timely delivery of high-quality software.

R**elease Management:**

* Make a smart plan for when to release software by considering competition, business commitments, and urgent issues.
* Keep a careful record of all the things in a software release, not just the code, but also setup files, data, documents, and more.
* Keep a record of the tools and software versions used to create the software, so you can recreate it exactly later.
* Remember that users may have different versions of your software, so create installation processes that work with these differences.
* Explore online models like Software as a Service (SaaS) where there's only one version to manage, making things simpler for both you and your users.

# Request for Proposal

This RFP is used as a part to advance the development of an integrated system. Through this RFP, we are giving the opportunity to look for vendors who can undertake the development.

* Background on your organization

Aussie Business Buzz(ABB) is a technology retail business that offers a range of products such as computers, laptops, smartphones, and routers. Additionally, they also provide repair services for electronic devices and sell accessories for mobile devices. Moreover, they are planning to build a system to support their 4 branch shops, with the intention of further growth and open additional shops in different locations.

* Requirements
  + A customer relations database with information about products and services purchased, and devices left with them for repair (customer details, customer purchase history, problem report, work details, etc.)
  + A marketing system that allows for digital marketing using e-mail, social media, and any other modern marketing techniques. This will use details in the customer relations database but allow other prospective customers’ details to be entered in the existing Aussie Business Buzz website (not part of this RFP).
  + A stock management system that includes products for sale, parts for use in repairs, and automatic ordering from wholesalers. The system must be able to be used for individual locations to find products and parts at other ABB locations when necessary.
  + Reports for management, who may be at any location, of the status of all the above so they can order stock, recruit staff, and make other management decisions.
* How do you evaluate the proposals?

The proposal includes all required information, such as company background, requirements, evaluation criteria, questions, Budget and Time frame, and the venter’s contact information. Ensuring the vendor’s background and experience, core services and management is compatible with the project. Considering the budget and timeline to evaluate the process. Checking overall proposal and meeting all the requirements that match the budget of the company.

* Budget/Time frame

It is going to take 3 month and going to cost $5000 for the first stage and for the second stage is going to take 3 month and going to cost $8000.

* How to get additional details about projects

To gather additional details about a project, it is important to contact stakeholders, such as clients, project managers, developers, and designers to gather all the information. Team meetings, project documentation, design documentation, and source codes play an important role in the project goals. It is essential to select and sort out utilizing effective tools such as project management software, shared documents, and version control systems to stay organized and up to date on project developments before the start of the project.

Venter needs to provide the below list of things in detail.

* Vendor company information
* Company background/history/services capabilities/management or key personnel bios
* Contact information
* Vendor’s proposed solution/ summary of the solution
* Development plan
  + Features and Functionality
  + Options and add-ons
* List of tasks
* Timeline
* Technical requirements
* Preliminary design compositions

Proposed budget

# Reference

Unit Managing Software Development : Module 2, 3.