**Task:** GitHub, Builds and RFP

**Unit** **Objectives**: LO2, LO3

**Due** **Date**: Monday of Week 4, 11:59 pm

**Weight**: 40%

**Must be completed as individuals.**

**Task Descriptions:**

**Code/file version management (8 marks)**

On GitHub is a public project named:

[*b-pillai/**ISYS3001\_2023\_Term4-Assessment2*](https://github.com/b-pillai/ISYS3001_2023_Term4-Assessment2)

You are required to sign up to GitHub and then:

1. Fork this project into your public space   
   (4 marks)
2. Modify the Word document called ISYS3001.docx (it contains instructions) in your own repository and create a pull request to the main repository (4 marks)

*Note:* At various times the project manager (repository owner) will pull changes into the mainline. This will be reflected in your GitHub view of the project.

*Important:*

* You will need to add your GitHub account name to your assignment! (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.

**Configuration Management (12 marks)**

A software development company experiencing issues with the consistency of their product deployments. The developers worked in silos with minimal collaboration, resulting in numerous integration issues and project delays.

The company needed to streamline its development processes to minimise conflicts and errors with software development projects.

Give your advice on the following process in a few sentences:

1. Change management (3 mark)
2. Version management (3 mark)
3. System building (3 mark)
4. Release management (3 mark)

**Request for Proposal (RFP) (20 marks)**

Provide a detailed RFP for the following system.

Aussie Business Buzz (ABB) is a business that sells a variety of technology products (e.g., PCs, laptops, phones, routers), and provides device repairs and mobile device accessories. They want an integrated system to support their 4 branch shops as the opportunity arises. They envisage the system will evolve over time and plan to expand to many more locations.

Their initial requirements are:

1. 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.)
2. 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).
3. 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.
4. 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.

You may be tempted to go overboard here so try to restrict your RFP to a reasonable size (up to 1000 words maximum), less if possible. Remember that the fewer restrictions the better in an RFP so that the responders can come up with new ideas that you have not imagined so far. This also means your RFP will not contain much technical information about the requested system but will contain information about your existing systems (the website unless you add to the specification).

Your RFP should allow for bespoke software development; but it should also clearly be able to consider existing applications, solutions built from components, SaaS solutions, other solutions, and any combination of these.

As you have learned, your RFP must contain:

* The system description
* Explanation of how you would evaluate proposals received
* Explanation of how you would answer questions
* Any other facts that would ensure proposals are useful to you and worth a supplier’s effort to respond to the RFP

Note that there are many things missing from the above specification that you may wish to add to your RFP. Many of your RFP will be details you will need to make up, e.g., whom to contact and how. You can use your own information or invent names and other data along the ABB theme.

**Submission Format:**

There is no template for this assignment, so you can design your own template or refer to online resources. However, the assignment should be well presented in a standard report format.

The first page of the assignment should have your name, student ID, ISYS3001 Assessment 2, and the date you submit your assignment.

When you have completed the assignment, you are required to submit your assignment in PDF/DOC format. The file will be named using the following convention:

Filename = FirstInitialYourLastName\_ISYS3001\_A2.pdf

(i.e. *bpillai\_ISYS3001\_A2.pdf*)

**Marking Criteria:**

The rubric for this assignment is available on the MySCU site and will give the criteria for marking.

**Getting Help:**

This assignment, which is to be completed individually, is your chance to gain an understanding of the practical side of version management using GitHub, investigating and familiarizing yourself with system builds and writing a request for proposal. It is important that you master these concepts yourself.

Since you are mastering fundamental skills, you are permitted to work from the examples in the MySCU site or textbook, but you must acknowledge assistance from other textbooks or classmates. In particular, you must not use online material or help from others, as this would prevent you from mastering these concepts.

This diagram will help you understand where you can get help:

**Encouraged Attribution Required**

**Not acceptable Ask tutor**

**Be aware if you do get help from one of the red sources, you are at risk of failing the assignment, or the unit.**