**INFO1111: Computing 1A Professionalism**

**2021 Semester 1**

***Project 1***

# Overview

This assignment is designed to help you gain an understanding of the different majors in the Bachelor of Advanced Computing degree.

The first part of the assignment (Project 1) assesses your understanding of the different majors, your understanding of your own capabilities as they relate to these majors, and your ability to work as part of a team.

You will complete Project 1 in groups of four students (if your group is a different size because of numbers in the tutorial then your tutor will advise how you should adapt the following instructions).

# Background

You are one of four new graduates that have recently been employed by a consulting company. This consulting company has many contracts with different clients, being supported by existing teams of consultants working for your new employer. Four of these teams have each asked for one of the newly employed graduates to temporarily help them in completing their contract over the next 2-4 months, however the focus of each of the projects is quite different, and the team leads have each said they would like a graduate who has skills in different areas:

1. The lead of Team 1 wants someone with Data science skills
2. The lead of Team 2 wants someone with Computer science skills
3. The lead of Team 3 wants someone with Information systems skills
4. The lead of Team 4 wants someone with Software development skills

Your boss doesn’t have time to work out who should be allocated to each team, so he has asked the four of you to do an analysis of your skills and together to come up with a recommendation as to who should be assigned to which team.

You will need to present your analysis and recommendations in the form of a report. The report must contain the following

* Team member competency profiles
* Project domain descriptions
* Comparative analysis of the competencies required and consultant capabilities
* Allocation and justification of consultants to projects
* Overview of your allocation process

# Report template

## Introduction – ½ Page

Overview on the contents of the report and the outcome reached.

## Person Profiles – 4 Pages (1 page per person)

For this part of the assignment, you need to create a one-page profile on each team member. This can include a complete self-assessment from ‘*Self-Assessment and Development Plan – Step 1*’. However, you should also look at aspects such as the following for each person:

* Technical capabilities, strengths, weaknesses, etc. (e.g. no experience with coding)
* Professional capabilities, strengths, weaknesses, etc. (e.g. good written communication skills)
* Previous experience (both generally and in computing areas)
* Desired areas for improvement or experience

## Domain Descriptions (inc. intext references) – 4 pages (1 page per project)

For this part of the assignment, you will need to conduct research on all four areas (CS, SD, DS, and IS) and provide a description on what kind of work each of these areas might involve, as well as the differences and similarities between the four areas.

## Comparative Analysis – 1 page

Based on the project descriptions consider the competencies (i.e., skills and knowledge) required to consult on each of the projects and provide an analysis of each consultants’ capabilities against the competency.

For example:

* 0: No knowledge/Skills
* 1: Fundamental Knowledge/Skills
* 2: Intermediate Knowledge/Skills
* 3: Advanced Knowledge/Skills

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project** | **Competency** | **Consultant 1** | **Consultant 2** | **Consultant 3** | **Consultant 4** |
| **Data Science** | Competency A | 0 | 2 | 2 | 1 |
| Competency B | 3 | 0 | 2 | 4 |
| Competency C | 1 | 4 | 0 | 2 |
| Competency D | 4 | 3 | 4 | 0 |
| Competency E | 2 | 3 | 3 | 3 |
| **Computer Science** | Competency A |  |  |  |  |
| Competency B |  |  |  |  |
| Competency C |  |  |  |  |
| Competency D |  |  |  |  |
| Competency E |  |  |  |  |
| **Information Systems** | Competency A |  |  |  |  |
| Competency B |  |  |  |  |
| Competency C |  |  |  |  |
| Competency D |  |  |  |  |
| Competency E |  |  |  |  |
| **Software Development** | Competency A |  |  |  |  |
| Competency B |  |  |  |  |
| Competency C |  |  |  |  |
| Competency D |  |  |  |  |
| Competency E |  |  |  |  |

## Project Allocation and Justification – 1 page

Based on the previous sections, allocate a graduate consultant to each of the four projects and provide justifications for your decisions. Answer the question ‘Why is Consultant X the most appropriate graduate to allocated to this project?’

For example:

|  |  |  |
| --- | --- | --- |
| Project | Consultant | Justification |
| Data Science | Consultant 1 |  |
| Computer Science | Consultant 4 |  |
| Information Systems | Consultant 2 |  |
| Software Development | Consultant 3 |  |

## Overview of your allocation Process – 1 page

Provide an overview of the process used to reach the agreed allocation of consultants to projects. How did you determine the project allocations and why was it a suitable approach for determining the allocations?

Note that in particular we are interested in how your group collaboration was managed. You might like to answer questions such as:

* How did your team work together to determine the allocations?
* What were some difficulties/challenges your team had in determining the allocations?
* If you were to work with this same team again, what is one (or more?) change the team would make to work together more effectively?
* How was the work distributed between your team? What did each team member do to contribute to the report?

## Sources / Bibliography

Complete list of all sources used in your report. These should be formatted according to APA 6th referencing. See <https://libguides.library.usyd.edu.au/c.php?g=508212&p=3476096>

# Additional information

Project 1 is assessed purely on an “Achieved / Not achieved” status of Level 1 – though feedback will provided about the elements that were done well or poorly (based against a rubric that will be made available).

In addition, the group component of the project will be assessed, and only students who have demonstrated an ability to collaborate effectively will be allowed to choose the Project 2B option for the second half of the project.

## Submission Details

Each group must submit a PDF version of their report, using the template described above, via Canvas by 11th April 2021, 23:59PM (AEST). Note that this will also involve the report being processed by Turnitin.