**SCHOOL OF DIGITAL MEDIA AND INFOCOMM TECHNOLOGY**

**ST0248 Programming for Data Science**

**Self Reflection (CA2)**

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| **Instructions:**   1. Submit this together with your other deliverables at Blackboard “Assignments->CA2” folder 2. Name your file “YourModuleLecturerName-YourStudentID-YourName.docx” |

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| **Your Lecturer’s Name** | Ms Dora Chua |
| **Your Name** | Liew Xi Wei (Claire) |
| **Your Student ID** | 1746970 |
| **Your Class** | DIT/FT/2B/32 |

# QUESTION 1: CHALLENGES - SELF-REFLECTION FOR CA2

Provide a brief reflection of the challenges you have faced in this assignment (CA1) with a comparison of those you faced in CA1. Did you manage to apply any learning experiences from the previous assignment to improve the way you did this assignment?

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| For CA1, the whole assignment is based on python, and everything is in jupyter notebook. Most of the challenge faced during CA1 is on learning python syntaxes. My code has always been messy, but in python everything is forced to be neat. I suffer a lot from that as I keep getting error just because I added semicolon, or never indent properly. In CA2, I got more used to python syntaxes, so I made lesser careless mistake when coding.  I spent a lot of time on deciding what kind of graph I should use to analyze my data for CA1. However, for CA2 I don’t have enough time to do so. With the knowledge gained in CA1, I forced myself to quickly decide what graph type I should use so that I have more time to explore other stuff.  After learning pandas, life became so much better. Pandas has so much built in functions. My favorite is .describe(). I used it to check if my boxplot is plotted correctly. |

# QUESTION 2: ACHIEVEMENTS - SELF-REFLECTION FOR CA2

Provide a brief reflection of what you think you have personally achieved in this assignment. Do not be shy to highlight extra efforts you have put in for this assignment. This is the place for you to impress upon your lecturer on your competency in this area and ‘fight’ for extra bonus points! 😊

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| This assignment is one of my biggest breakthroughs in my entire poly life (although it’s only been 1½ years) mostly because I’ve tried to use JavaScript to do this assignment, and I had very little JavaScript experience. I’ve used the Express.js and Node.js to build the server for MongoDB, and Vue.js as frontend. To be honest, I was a bit proud that I managed to set that up because it is a relatively new technology stack comparing to stuff like React and Angular, so there is not much documentation available. However, I heard that React and Angular is a lot harder than Vue, but I’m already half dead just by using Vue …  I thought plotting graph in python will be quite similar with in python. However, this time round it’s all json objects from mongoDB, which again, I have no experience with. And since I’m not using raw JavaScript, most of the JS documentations needs to be edited. Although there is a lot of chart wrappers around, some of them does not include every type of chart. For the boxplot, I totally fed up and went back to use python. Although it’s the first time I’m using Pygal, I completed that graph quite fast because pandas is really straightforward. I might be bias about that because I have no knowledge on json objects, BUT PANDAS IS JUST SO NAISE WHEN IT COMES TO DATA  I used 3 chart libraries to plot charts not because I want to show off, but I really don’t know how to use some of them for some graph. For boxplot, chart.js is completely out of consideration as THEY DON”T HAVE BOXPLOT (at least from what I know), and I literally have no idea how to structure the data for google chart’s boxplot although it is documented. Then I went back to use python. For histogram, I prefer the google chart’s one because there’s a hover cursor that shows where is that data from, which is really smart. If I were to compare these 3 libraries, I would say I like chart js for their effortless animation, Google Charts for the variety of graphs and Pygal for the documentation  I also used beautiful soup to populate the “Unethical Life Pro-Tips” for the footer of the page, but then I realize it’s a bit not appropriate for assignments .\_. But I spent a lot of time on that, although it is only meant for trying out my server. I did that because the data structure for that is simple, only one string. I really like it. Please ignore it or read it with a pinch of salt.  After this semester, I realized that what I know is so little, that I’m both happy and sad at the same time. But now I’m just very sleepy. |

# QUESTION 3: EVALUATE YOUR CA2

What grade do you think you deserve for CA2? Justify the grade you gave yourself with reasons.

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| What grade do you think you deserve for CA2?  I think my classmates and I deserve at least an A (at least for effort). We all worked very hard for this assignment haha. Of course, I hope that I’ll get my equal share as well because I also tried very hard.  State your justifications here  Although I never did as much python as others, I endured a lot of pain while learning JavaScript. And my datasets are not easy to clean as well. Even though I mainly use JavaScript, I still use python to draw a graph. For coding competency, I’m inexperience but I’ve took every opportunity to learn. All of this sounds really disgusting but I think I really learnt a lot and did a lot for this assignment. I think my data analysis is relatable to most people because most people want to get rich. After all, I think it is not about how many libraries we use, but how meaningful and good-looking our analysis is. |

# QUESTION 4: FUTURE PLANS

How do you rate your programming competency with data analysis tasks after completing this assignment? Give yourself a rating from 0 to 10. Would you be confident to take on a job that requires you to write a Python program to analyse real-world data? What are your future plans in terms of sustaining the knowledge you have gained from this module?

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| I’ll rate myself 8 for programming competency with data analysis task. In near future (before I forget everything), I’m confident to take up a data analysis freelance job as expectation from people hiring freelances is not as high. Sadly, I don’t get very excited when looking at graphs. Still, knowing how to python should be a huge benefit in the machine learning sector, which I’m curious about but not sure if I like. |

**-- End of Self-Reflection --**