**SCHOOL OF COMPUTING**

**Programming for Data Science**

**Self-Reflection (CA2)**

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| **Instructions:**   1. Submit this together with your other deliverables of CA2 2. Name your file “YourModuleClass-YourStudentID-YourName\_reflection.docx” |

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| **Your Name** | Aai Xun En |
| **Your Student ID** | 2104089 |
| **Your Class** | EL/EP0302/FT/02 |

# QUESTION 1: CHALLENGES - SELF-REFLECTION FOR CA2

Provide a reflection of the challenges you have faced in this assignment (CA2) 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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| Compared to CA1, I faced a whole other set of challenges while doing the assignment, CA2 proved to be easier to manipulate data and datasets with the introduction of Pandas. I have already used Pandas in past assignments before, thus I have knowledge coming into this assignment about what the library is capable of.  The introduction of Seaborn also improved the aesthetic ceiling of the graphs and plots, being able to customize more areas of the graph compared to only using Matplotlib.  From CA1, I learnt how to properly manage the different boxes in Juypter notebook in order to make full use of the notebook. In CA1, I placed all the graphs in a single box, however coming into CA2, I made use of Juypter’s function to have multiple boxes to place all the different graphs into different boxes. Resulting in a neater coding experience and more pleasant grading experience for the lecturer.  As none of my main modules required Python at the moment, I was rusty with the experience of coding with Python. However, CA1 allowed me to catch up with the experience of coding with Python and allowed me to transfer my skills from my other modules into Programming with Data Science where I will be able to make use of my existing knowledge.  Some challenges I faced while completing this assignment is the vast choices for the different datasets and not being able to focus on one area of interest. However, I decided to narrow down the area of focus to current events in the world, and clamped down on datasets about the Covid-19 situation in Singapore and around the world. |

# QUESTION 2: ACHIEVEMENTS - SELF-REFLECTION FOR CA2

Provide a 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 tutor on your competency in this area.

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| I have learnt much about the use of different libraries to manipulate data and plot graphs from the completion of this assignment. Before working on this assignment, I had surface level knowledge of the use of libraries such as Numpy, Matplotlib and Pandas practically, as previous assignments that I worked on did not require much intensive use of the libraries. Now, after research into the documentations of the various libraries, I learnt about functions and features that I had no idea was possible before, providing me with a deeper understanding of the field of data science with Python.  I also did research about the Covid-19 situation not only in Singapore but around the world for the purpose of a deeper understanding about my dataset, for example, why did some Covid number spiked at certain dates and such.  Reading the documentation played a big part in my ability to understand the full use of the different libraries, especially for niche libraries like Seaborn where not a lot of solutions were provided by other users. One example of this is when I wanted to have the graph appear without it’s spine, which is the top and right box lines. Matplotlib does not have the feature to remove those lines, however, with Seaborn I could get what I wanted with sns.despine(). I had found that function by digging through the Seaborn documentation on their website and found that applying that function did exactly what I wanted to achieve with my graph. |

# 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?  A  State your justifications here |

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