**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** | Victoria Chee Kai Wei |
| **Your Student ID** | P1747306 |
| **Your Class** | DIT/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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| * I learnt completely new syntax from CA1, using pandas, plotly with Dash, and even html and css, to combine python, html and js all into one project. What was challenging at this point was finding a python library that I wanted to utilize for my project, that was both impressive and had the features to complete my project, while still being well-documented. I settled on Plotly with Dash, as it had everything I wanted, and allowed me to deploy my charts to a web page, which was a bonus that I had wanted to implement. * Learning how to store my data into mongoDB and retrieve it later was intimidating at first, as I had not done that in CA1 and was uncertain as to how difficult it would be. Following the slides, and with a bit of online research, I discovered it was relatively manageable in the end. * Finding new syntax to plot my graphs using Dash plotly instead of Matplotlib was challenging, but not as challenging as CA1 was, as the syntax was somewhat familiar to me at this point, instead of it being completely new to me as it was in CA1. I found such syntax through online documentation, videos and forums, and through a bit of inference. * I applied my knowledge of the purpose of each type of graph as I had learned in CA1, to plan my data science story, and find useful insights for my story’s projected user. For example, I used line charts to find out the potential growth of the user’s salary over time, and boxplots to find the spread of the user’s chosen industry’s job salaries, so that the user can be guided along to discover what industry he wants to work in. * Possibly the most challenging part of the project, surprisingly, was deploying my app to a web server. I had to research deeply on the web, to find the solutions to errors, when trying to deploy my app to the Heroku webserver successfully. Although it took hours to find out what was wrong, seeing my project being shown on a webpage in the end made it all worth the effort. |

# 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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| * Deployed app on Heroku webserver using Dash Plotly, accessible at: <https://choose-your-future-industry.herokuapp.com/> * Cross-filtering and filtering to update multiple charts at once * Added css and html elements to the webpage, to describe the project, the charts and improve aesthetics * Formulated a coherent and logical story for the graphs plotted, with every graph serving its purpose |

# 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   * Hit all the requirements for CA2, with all types of charts plotted and each chart serving a clear purpose. * Deployed the app to an online web server, so that the lecturer can view it with ease. * Analyzed the charts thoughtfully and purposefully, to answer the needs of the project’s projected viewer (or persona). * Edited the web page to improve the lecturer’s and any other user’s viewing experience and satisfaction. |

# 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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| 8. I would definitely be willing to take on a job in data-analysis in the future, as the current knowledge I hold gives me a strong foundation in python programming and chart plotting, and also opened my mind up to deep analysis of data. Not only that, but what makes me excited about a potential job in data science, would be having the opportunity to learn even more from professionals in a work setting, and make even more challenging charts and figures; as I feel as though I have barely scratched the surface of data science programming. In the future, I plan to take an internship in data science related fields if possible, and if I find that I enjoy it, I might continue studying data science in University. To maintain the knowledge I have gained, I plan to keep my projects and learning materials from the module for future reference if ever needed. |

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