



GUSTO
UNIVERSITY

Unit-19: Computing Research Project

**The Investigation for the enhancement of Self-study Learning through Big
Data-driven AI chatbot**

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Reflection Report

Pearson Education
Higher Education Qualifications

I am Linn Nandar Htun and a second-year student at GUSTO University. Last month ago, I had to learn Unit - 16 Computing Research Project and later, I got an assignment project to research one of remote working with researching process related with Big Data. I had explored every aspect of Big Data and its related entities and fields. Finally, I decided to conduct a research about investigating the effectiveness of Ai chatbot powered by Big Data on the self-study process of higher educational students.

Firstly, I have had to prepare the "Proposal research" to propose my research idea to be confirmed by my responsive tutor. Next one is according to I mentioned, Proposal research is same like the well-structured plan of what researcher going to carry out for the research, describe the research title, question, objectives, and hypothesis in clear and exact way together with the strong reasons of choosing this research project. To complete the proposal report, I've learnt the theories and linked with my project, chose the overview methodology which is going to apply to the research and reported. According to this way, the process of reporting "Proposal research" is successfully finished.

Next step is preparing to report "Secondly Research". Some steps of reporting this secondly research is totally similar with steps of reporting "Proposal research". So, I did not find the self-studying part difficult. As I do, I collected daily notes and lessons and reused in reporting. However, I've experienced some difficulties in doing "Literature Review" step. Literature Review is creating sub titles and have to report and search related answers form Literature sources searched at "Proposal research" and another website and research papers. To be able to find the related research literatures which can truly support to study my research was quite challenging for me and I needed a lot of help from my formal tutor. As my opinion, Secondary Research included not only Practical process but also theoretical and critical thinking process. So, I found it easy to write about Research methodology. It is similar

to the "Research approach and methodologies" and in that I have to express more detailly and I got more understood after that. To understand the Research onion model, I've read about that model comparing with the examples to get an idea of the types of each layers of my research. This kind of reading support me to choose the research methodology and approach in more accurate way. The moreover process I guessed and aimed were also express in "Conclusion" of Secondly Research. In this way, I've finished all of Secondly Research process successfully and perfectly.

The final step is reporting "Primary Research". As my sight, Primary Research is fully with Practical process only. There was no theories or topics we can copy and paste. According to the plan, I carried out the well-build survey to collect the data to analyze and get a valuable insight for testing the hypothesis I've described in the "Secondary research". Survey form is kind of data collection that can help to get true data result for my result. But, according to I mentioned there are much Practical process like do the survey form collected the answers form sampling group. Then, I've had to learn how to clean random raw data and how to effectively analyze those data to get somewhat relatable insight to support the objective of the research.

In that, some of the cons I've experienced during the Primary Research are there were some difficulties in gathering sufficient responses from the sampling group because some of the participants didn't finish the survey and some gave irrelevant and unusable answers. This kind of answers created confusion during the data cleaning step and I've had to spend extra time filtering out those incomplete answers. Moreover, I found it is more time-consuming to conduct primary research process compared to the earlier theoretical ones because the primary one is heavily relies on the practical works. Lastly, in the analysis step analyzing the cleaned data to extract valuable insights also took more time and effort than ever, especially in the process of aligning those results with the research objectives and discuss to

test the hypothesis with those results. This tragically led to delays in finishing the analysis and research. However, I have successfully overcome those delays and difficulties with the help of my tutor and my strong effort and passion on this research.

Finally, my reflection report is perfectly finished with reflecting the whole process, challenges I've encountered during the research project, overcome and observations. I would like to thank to all the responsive readers of this reflection report.