Ariel Daugherty

Professor Bruster

Computer Science 4800

9 February 2022

Research Methodology

As we have seen, a research paper has many important components. However, a few components have not been analyzed in the homework assignments, which are the terms “Research Methodology” and “Research Methods.” To further discuss these important concepts, one must understand what the definition of each term is and what the differences are between the two terms. Additionally, one must realize the best way to convey the collection of the data for a high-quality methodology section of the research paper.

According to Expert Journals (2017), research methodology represents what methods are “used in a research paper” (Expert Journals, 2017). This statement simply means that the paper needs to show how the concepts in the paper are related to the research methods that have been used. The “research methodology” in the paper should include enough evidence to help other readers construct the same research that has been conducted by the author of the original research paper. With this in mind, “every stage of [the] research needs to be explained” (Expert Journals, 2017).

The concept of “research methods” focuses on what methods are used to conduct the research that is presented. Every detail that can explain the techniques, procedures, and analyzations used should be included in the paper (Expert Journals, 2017).

To build a substantial methodology section, data collection and/or generation is very important to include. Primary data or secondary data is the key to obtaining this goal. Primary data includes the use of quantitative research, qualitative research, “surveys, experiments, [and/or] observations” (Expert Journals, 2017). Quantitative research focuses on measurable answers to the research questions that are presented in the paper. Qualitative research focuses on the interpretation of the quantitative research. Secondary data includes the use of data that has already been presented on the research subject from other sources. One should include a statement inside the methodology section that describes whether primary data or secondary data is used.

Overall, a research paper has many important components. A section on research methodology and research methods should be included in the research paper to explain to other researchers how he or she can recreate the author’s observations.

Works Cited

Expert Journals. “How To Write a Research Methodology for Your Academic Article.” *Expert Journals*, Expert Journals, 21 June 2017, https://expertjournals.com/how-to-write-a-research-methodology-for-your-academic-article/.