*Building Data Flow Diagrams*

*Ethan Dunzer*

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**Introduction**

*Introduce the concept of a data flow diagram. Briefly explain the difference between a use case diagram and a data flow diagram. How do DFDs inform the customer and the analyst?*

*Explain the purpose of this assignment and explain how this modeling tool is useful in helping APC achieve heir goals.*

**Topic Analysis**

**Part 1:****Create a Context Diagram for APC**

*In this section provide a brief setup for how you developed a DFD Context Diagram that captures the elements of your project. In addition to a sized and annotated Context diagram graphic, provide a complete explanation of how you arrived at the external elements and how you determined the data flow associations of each. Demonstrate that you understand how the DFD is consistent with the functional requirements of the system*

**Part 2:****Create a Level 1 diagram for APC**

*Expand the Context diagram into a Level 1 diagram. I recommend that you create a major process for each use case identified in the Use Case Diagram. Explain your numbering system and defend the associations you describe between elements with the System Level 1. Using the rules for developing the DFD, make sure all data stores are identified and connection correctly. Make sure to provide a clear explanation for each decision you make in the design. Your inputs and outputs (I/O) must be consistent with the Context Diagram.*

**Part 3***:* **Expand your most complex process from the level 1 diagram into a level 2 diagram.**

*Provide sufficient support to allow the reader to see that you understand how to decompose the Level 1 diagram into a level 2 diagram. Make sure all I/O are consistent with the Level 1 and Context diagrams. Demonstrate you understanding of how these diagrams support the requirements identified for the system.*

**Conclusion**

*Provide a clear summary of what you learned in the exercise. Demonstrate your understanding of the purpose and uses of a Data Flow Diagram and identify when you would use this tool. Identify how this tool would be used with the stakeholders of the project*

**If you use references, put them on a separate reference page with APA formatted references**