TidBIT

Systems are complex, with many moving parts and processes. Sometimes it can seem overwhelming to think about all of the complex pieces at once. One important problem-solving strategy is to break down a problem into smaller pieces. This strategy can be applied to all different types of problems, from complex mathematical equations to designing code—and even to process modeling! To avoid getting overwhelmed by all of the little pieces when creating a process model, apply the "break it down" strategy by capturing the higher-level processes of a system first, and then breaking those processes down into subprocesses, and so on.

Required Resources

Reading: *Modern Systems Analysis and Design*, Chapter 7
This chapter provides you with an overview of a process model. You will explore the definition and use of process models and become familiar with some of the key terminology. Consider the following questions as you read:

- How are process models used in system design?
- How does the numbering structure work in the design of process models?
- What are some of the essential elements of a process model?
- What are the data flow diagram rules associated with process models?

NOTE: The last few pages of each chapter contain lists of Key Terms, Review Questions, and Exercises. Review these pages to check how well you understand the reading.

Reading: UML Tutorial (https://www.tpointtech.com/uml)
This tutorial provides a high-level introduction to UML, goals of using UML, and UML's use in object-oriented analysis and design.

Reading: Types of UML Diagrams (https://www.lucidchart.com/blog/types-of-UML-diagrams)
This article explains the various types of UML diagrams.