

Modern Systems Analysis and Design

Seventh Edition

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Chapter 7 Appendix B
Object-Oriented Analysis and Design:
Activity Diagrams



Learning Objectives

 Understand how to represent system logic with activity diagrams.

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Process Modeling: Activity Diagrams

- Activity Diagrams
 - ☐ Show the conditional logic for the sequence of system activities needed to accomplish a business process.
 - □ Clearly show parallel and alternative behaviors.
 - □Can be used to show the logic of a use case.

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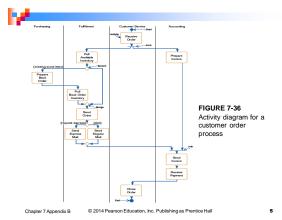


Use Activity Diagrams to:

- Depict the flow of control from activity to activity.
- Help in use case analysis to understand what actions need to take place.
- Help in identifying extensions in a use case.
- Model work flow and business processes.
- Model the sequential and concurrent steps in a computation process.

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Process Modeling: Activity Diagrams (Cont.)

- Elements of Activity Diagrams:
 - □ **Activity**: a behavior that an object carries out while in a particular state
 - ■Branch: a diamond symbol containing a condition whose results provide transitions to different paths of activities
 - ■Merge: a circular symbol where different paths converge

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