Modern Systems And Ninth Edition	alysis and Design
MODERN SYSTEMS ANALYSIS DESIGN	Chapter 3 Appendix
JOSEPH S. JOCY F. VALACICH GEORGE	Object-Oriented Analysis and Design
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Learning Objectives

3A.1 Describe the unique characteristics of an OOSAD project



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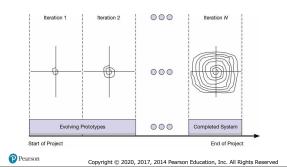
Introduction

- Unique Characteristics of an OOSAD project include:
 - Using a more iterative design approach, such as prototyping or object-oriented analysis and design
 - During the OOSAD process, the system evolves incrementally over the life of the project
 - A portion of the final system is constructed during each iteration phase



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Figure 3-31: During the OOSAD Process, the System Evolves Incrementally Over the Life of the Project



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Define the System as a Set of Components (1 of 3)

3A.1 Describe the unique characteristics of an OOSAD project

- The project manager must subdivide the overall system into a set of components (each referred to as a "vertical slice")
- · Earlier components will require more iterations
- Consider the following:
 - Complete hard problems first
 - Allows the difficult problems to be examined first before substantial resource allocations are made
 - Initial iteration should focus on system architecture (database or networking infrastructure)



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Define the System as a Set of Components (2 of 3)

 ${\bf 3A.1}$ Describe the unique characteristics of an OOSAD project

- Use iterations to manage the project
 - All systems life-cycle activities performed during each iteration
 - Results from each iteration are the inputs to the next iteration
- Don't plan too much up front
 - More learned during each iteration
 - Project manager able to make better predictions and plans
 - Project manager should make detailed plans only for the next iteration, not the entire project



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Define the System as a Set of Components (3 of 3)

3A.1 Describe the unique characteristics of an OOSAD project

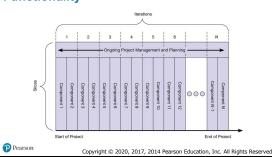
- How many and how long are iterations?
 - Each should be the same length
 - Don't pack too many components into one iteration
 - OOSAD projects typically have 6 to 9 iterations
- Project activity focus changes over the life of the project
 - As the project evolves, system functionality evolves

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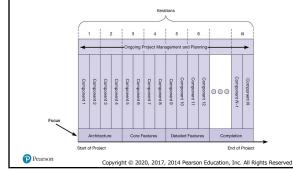
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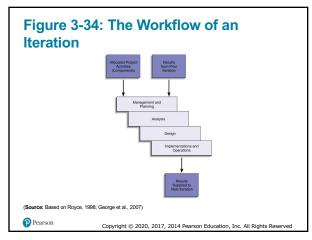
Figure 3-32: Object-Oriented Development Projects are Developed Using Ongoing Management and Evolving System Functionality

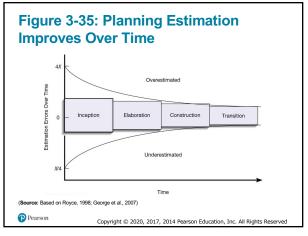


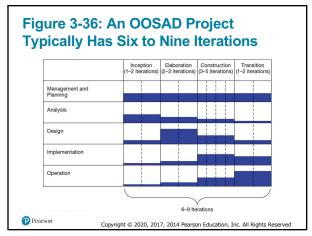
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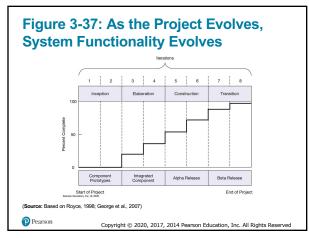
Figure 3-33: The Focus and Ordering of System Components Change Over the Life of the Project



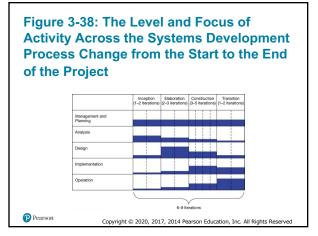








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Summary

• Describe the unique characteristics of an OOSAD project



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