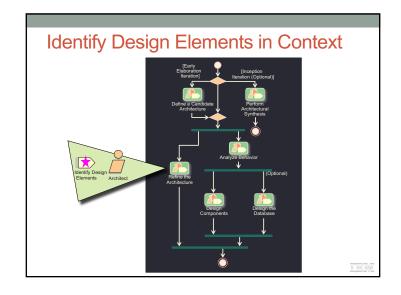
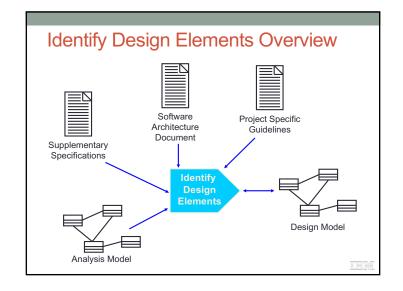


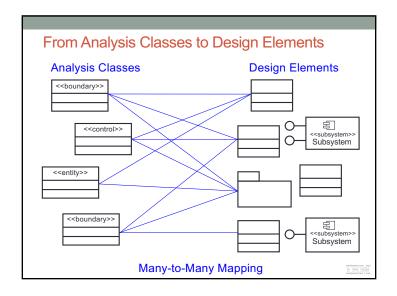
Objectives: Identify Design Elements

- Define the purpose of Identify Design Elements and demonstrate where in the lifecycle it is performed
- Analyze interactions of analysis classes and identify Design Model elements => Design classes

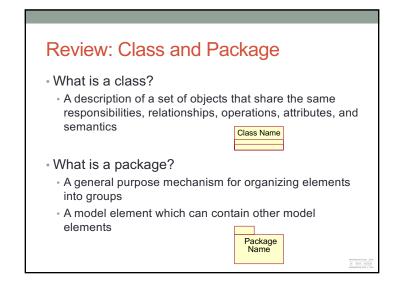
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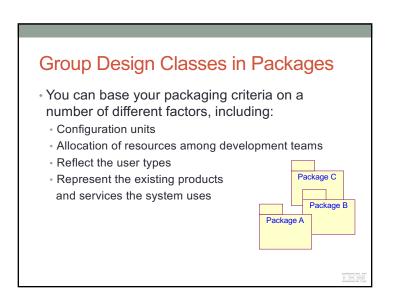


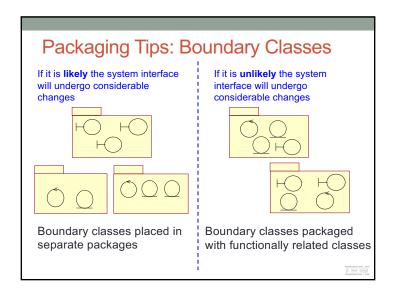




Identifying Design Classes An analysis class maps directly to a design class if: It is a simple class It represents a single logical abstraction More complex analysis classes may Split into multiple classes Become a package Become a subsystem (discussed later) Any combination ...







Packaging Tips:

Functionally Related Classes

- Criteria for determining if classes are functionally related:
 - Changes in one class' behavior and/or structure necessitate changes in another class
 - Removal of one class impacts the other class
 - Two objects interact with a large number of messages or have a complex intercommunication
- A boundary class can be functionally related to a particular entity class if the function of the boundary class is to present the entity class
- Two classes interact with, or are affected by changes in the same actor

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Packaging Tips:

Functionally Related Classes (continued)

- Criteria for determining if classes are functionally related (continued):
 - Two classes have relationships between each other
 - · One class creates instances of another class
- Criteria for determining when two classes should NOT be placed in the same package:
- Two classes that are related to different actors should not be placed in the same package
- An optional and a mandatory class should not be placed in the same package

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