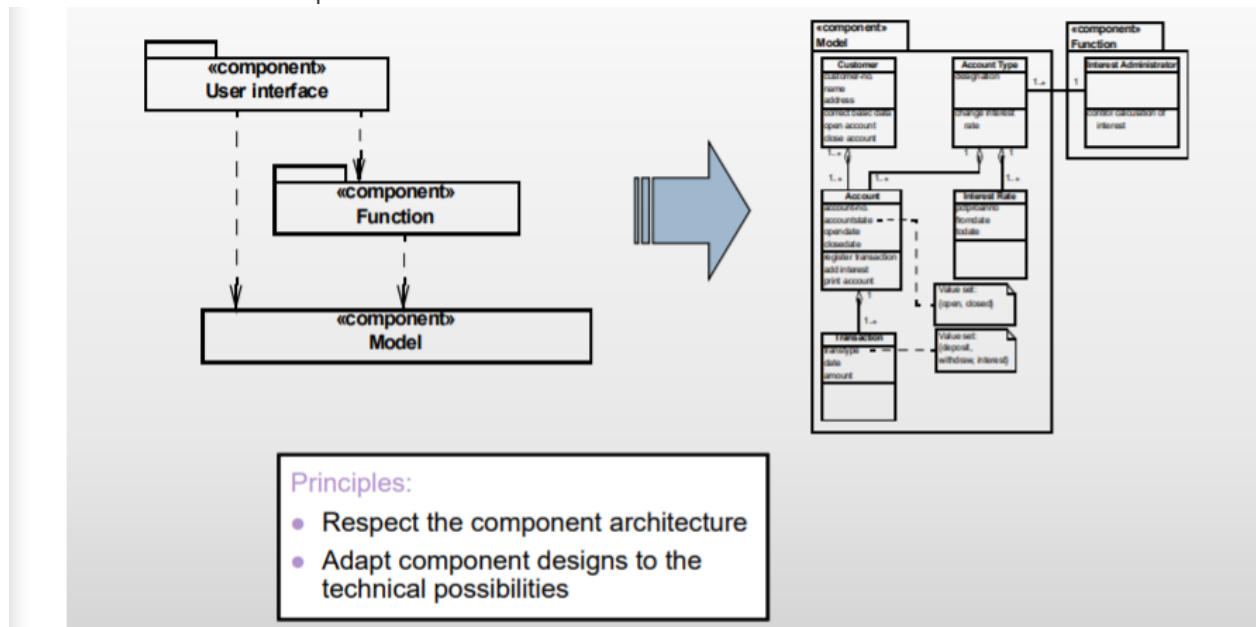
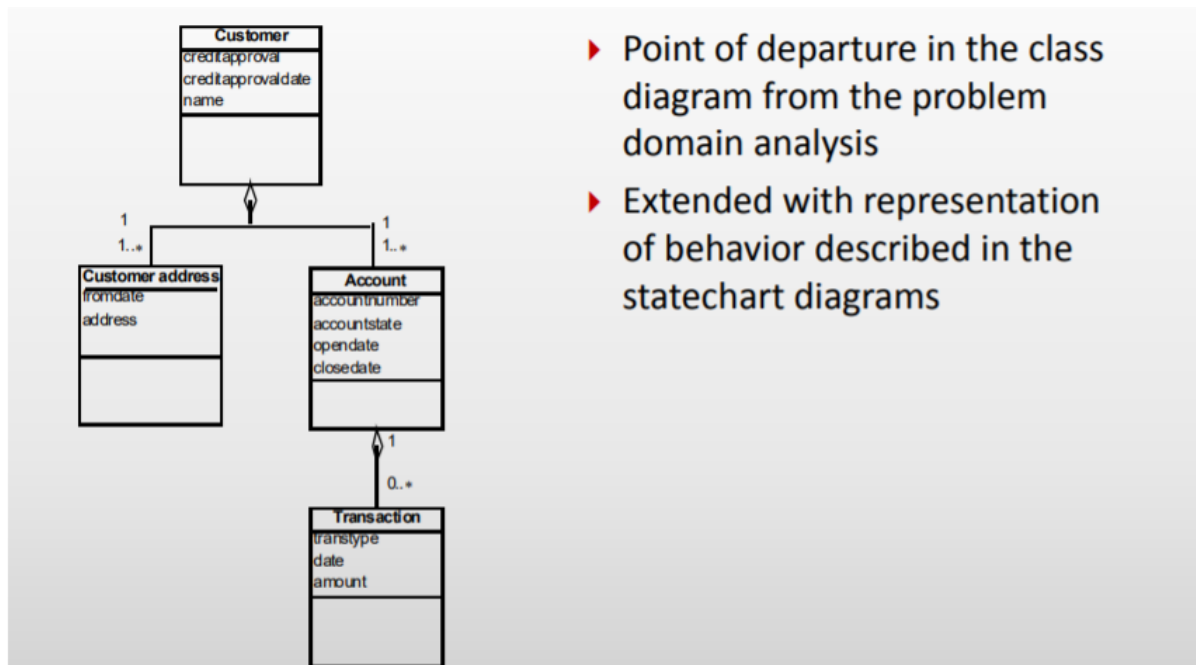


13: Function Component: Patters: Model-Class placement, Function-Class placement, Strategy, Active function.

From architecture to components:



Model Component: Results



Bank example: Remove private event: Credit approval: only happen once and only to customer.

INSÆT NEDENSTÅENDE EKSEMPEL!! BOTH CLASS DIAGRAMS + EVENT TABLE (enhanced solution)

Event table for representing the class diagram RULES: (Exam opg example 4.2 Jan 2018)

- if an event has only one * and nothing else, it is a private event, and it need a class for it self.
- If an event has only one + and nothing else, it has to be represented as an attribute in the class where it is listed.
- If an event has one + and more *, we can note that as an attribute in the class with the +.
- If an event has two or more * and no + then make a new class for that event, and create association for the classes with *.

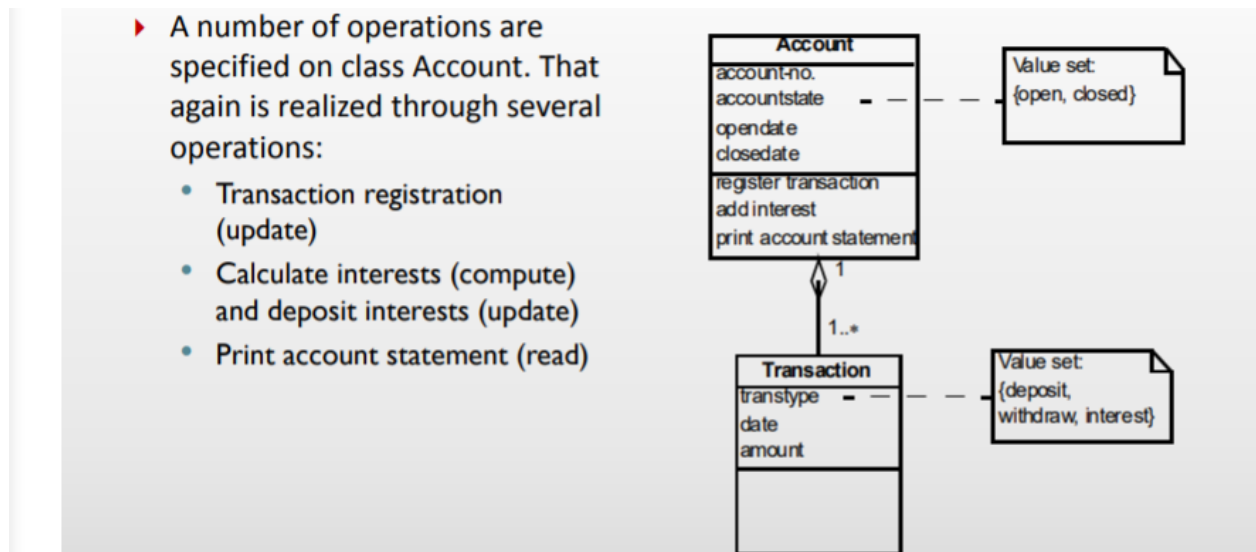
SLIDE 16-17!!!!!!!

SLIDE 19-20!!!

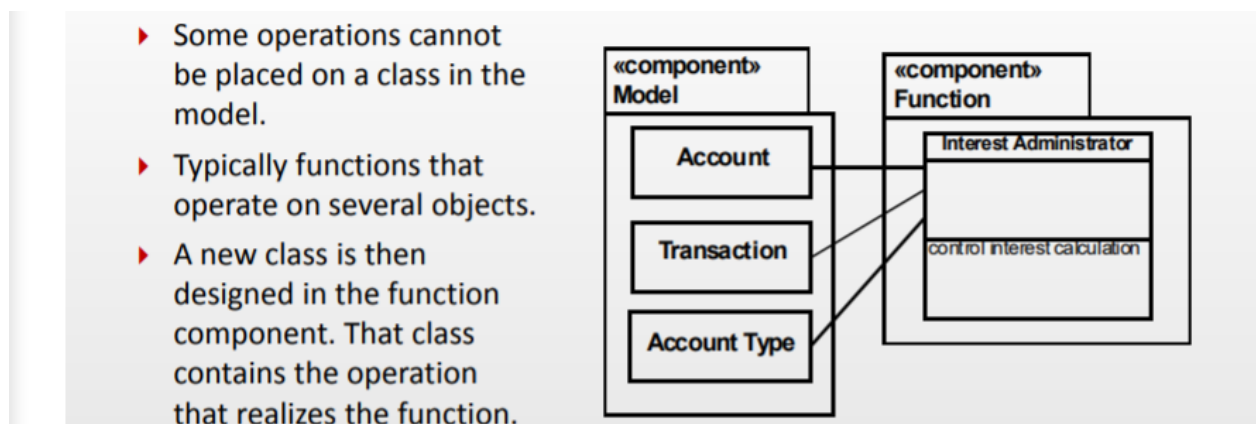
Patterns

Patterns: Model-Class Placement

This one should be used when possible, it is the best.

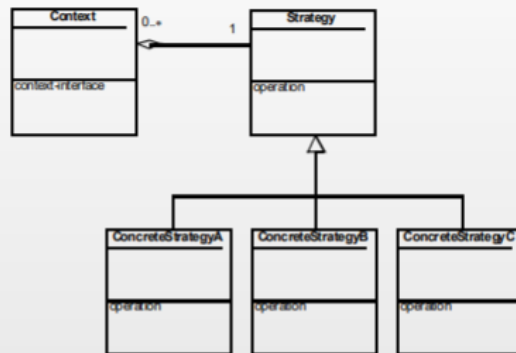


Patterns: Function-Class Placement



Pattern: Strategy

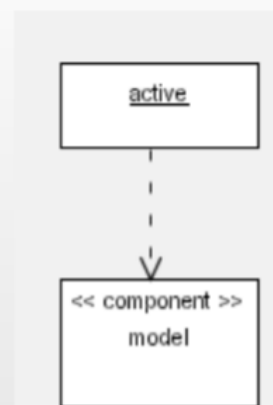
- ▶ If a class has several specializations and a function is performed different dependent on each specialization.
- ▶ The Strategy Pattern defines a general operation that is then described in detail in each specialization.



Pattern: Active Function

Pattern:Active Function

- ▶ A signal function can be active or passive.
- ▶ An active function can be realized in an active object.
- ▶ The function is then realized with its own control.



A passive signal is when you for example update your model and then call a signal function.