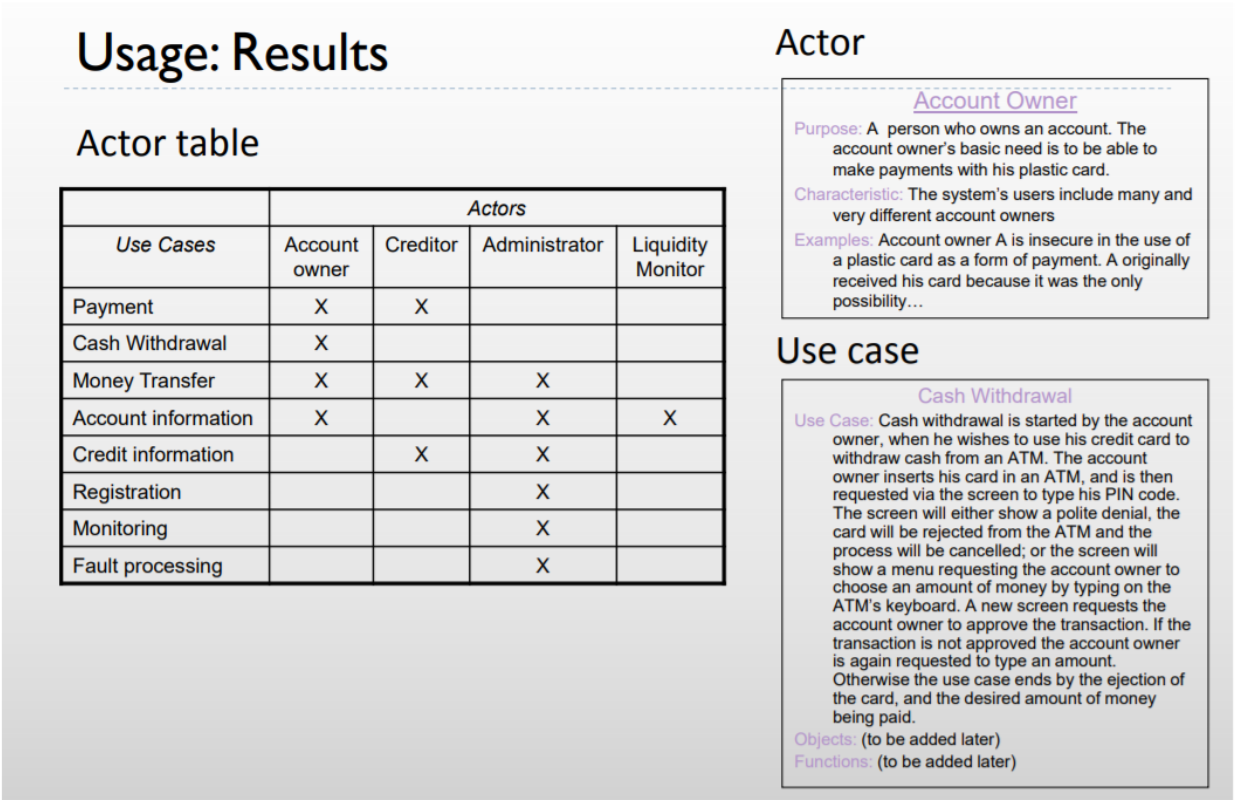
III: 6: Usage: Actors, Functions, Work Tasks, Use Case, Patterns (Procedual, Material).

Event tables: * = 0 or more, + = 0 or 1 time.

Application Domain Analysis: Results

- Actors (users and other systems) and Use case

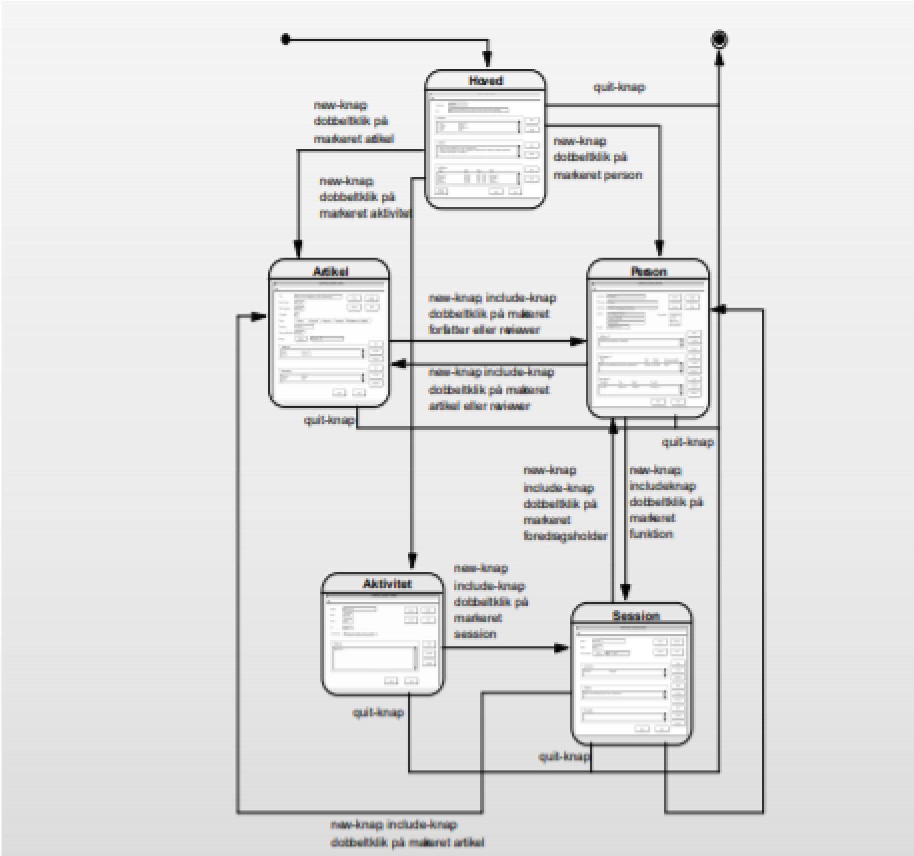


The use case: Cash Withdrawal: should mention the cancel option displayed below.

- Functions

Lav plan	Særdeles kompleks	Opdatering
Konsekvensberegn plan	Kompleks	Signalering
Find kundeoplysninger	Middel	Aflæsning
Sæt indhold I plan	Kompleks	Opdatering
Slet plan	Simpel	Opdatering
Lav reservation	Middel	Opdatering
. . .	. . .	. . .

- User interface (Used/learned in DEB)



Stable versus Transient Properties

Stable properties Transient properties

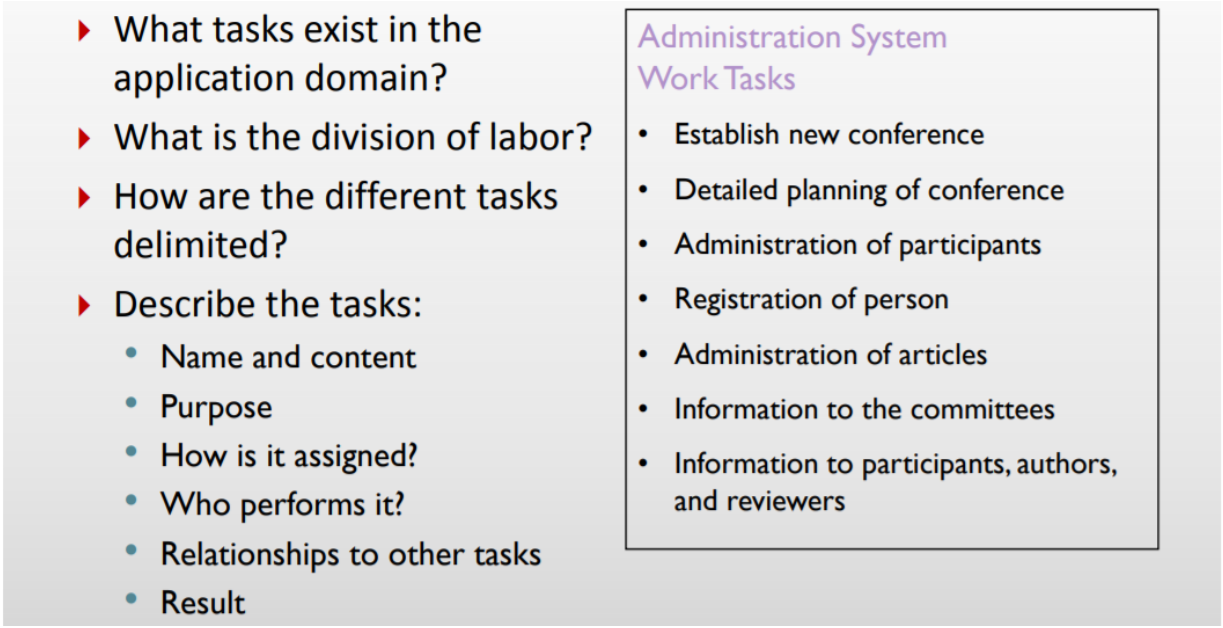
← – →

Model Functions Interfaces

- Compare the model, functions, and interfaces between a classical bank and a modern internet-based bank.

The model is pretty much the same: users, banker and such is the same. Functions is the same and more has properly been added. Interfaces has changed the most; much smaller and more options. It is totally different.

Start from Work Tasks



Actor

- Identify actors
  - Determine the distribution of roles of the works tasks related to the system.
  - Consider human actors.
  - Consider other systems as actors
- Describe actors
  - Make actor specifications

See top of chapter for example.

Use case

- Identify use cases where the system is used to carry out part of a work task.
- Describe use cases
  - As text.
  - As a statechart diagram.

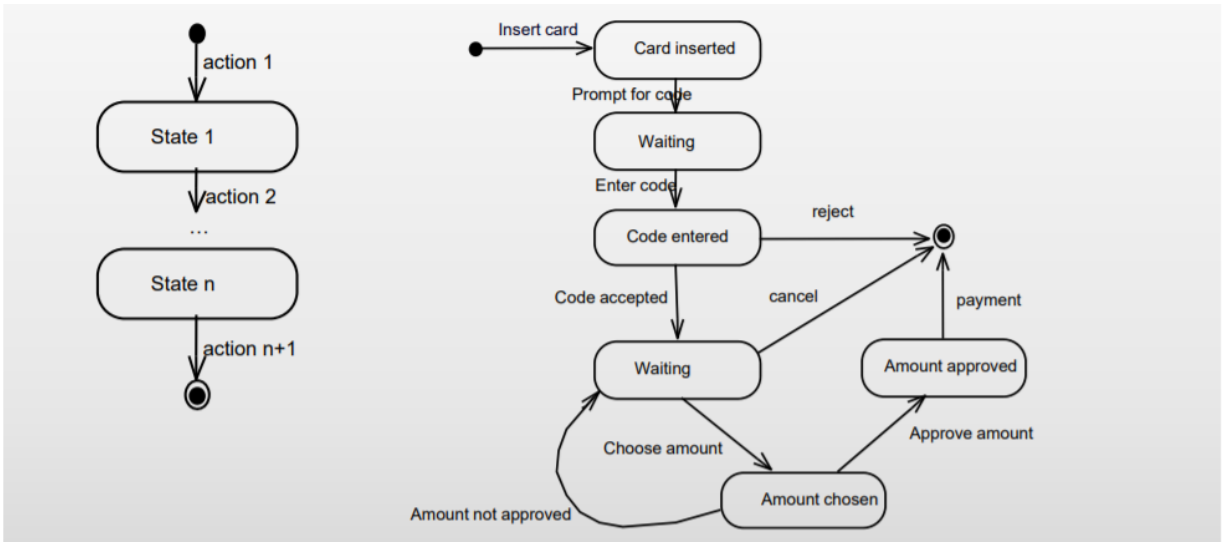
See top of chapter for example.

Evaluate Systematically

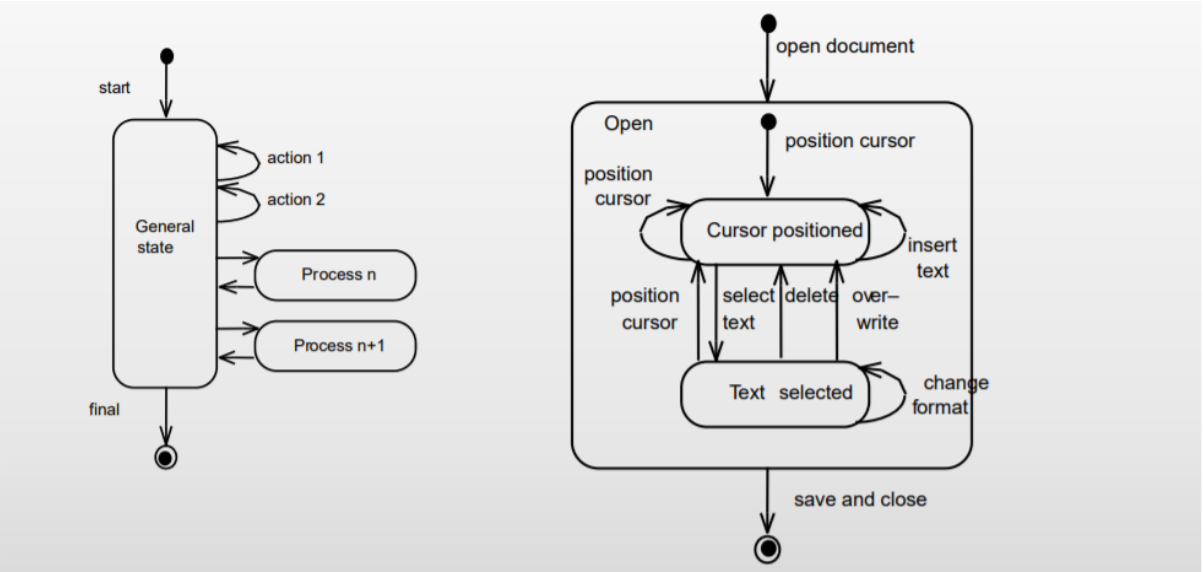
- Systematic review
  - Use cases should be simple and constitute a coherent whole
  - The description of actors and use case should provide understanding and overview
  - Use cases should be described in enough detail to enable identification of functions and interface elements.
- Experiment with prototypes
  - A use case is best evaluated trough planned prototype experiments.

Dimensions	The Mechanistic Extreme	The Romantic Extreme
Work Content	**Specialized job**	**Varied job**
	Polarized division of labor	**No division of labor**
	Many procedures and rules	**No procedures and rules**
	Regulated by rules	**Regulated by consequences**
Autonomy and Control	**Monitoring**	**Self regulation**
	Stressful load	**No performance quotas**
	Little influence on own job	**Great influence on own job**
	Low general influence	**High general influence**
Social Relations	**No security**	**Security**
	No self-realizations	**Self-realization**
	Little social interaction	**Great social interaction**
	Alienated	**Integrated**
Education and Development	**No requirements to education**	**Large requirements to education**
	Stagnation	**Development**

Explore Pattern: Procedural



Explore Pattern: Material



Appreciate the Difference: Actors and Classes

	Application Domain	Problem Domain
Static	Actors	Classes and Structure
Dynamic	Use Cases	Behavioural Patterns