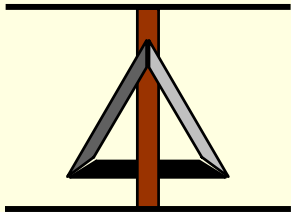


# Data Model Patterns: A Metadata Map

***East Coast Regional DAMA 2006***

David C. Hay

*May-June, 2006*



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🌐 [www.essentialstrategies.com](http://www.essentialstrategies.com)

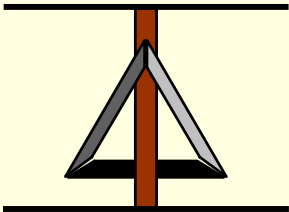
*Time is that quality of nature which keeps events from happening all at once.  
Lately it doesn't seem to be working.*

**Unknown**

*When I can't handle events, I let them handle themselves.*

**Henry Ford**

## Column 5: Timing and events



### **Essential Strategies, Inc.**







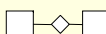


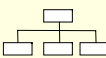




















13 Hilshire Grove Lane, Houston, TX 77055

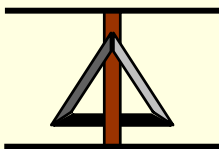
☎ (713) 464-8316

✉ [dch@essentialstrategies.com](mailto:dch@essentialstrategies.com)

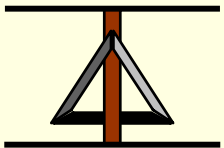
🌐 [www.essentialstrategies.com](http://www.essentialstrategies.com)

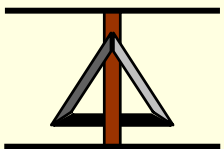
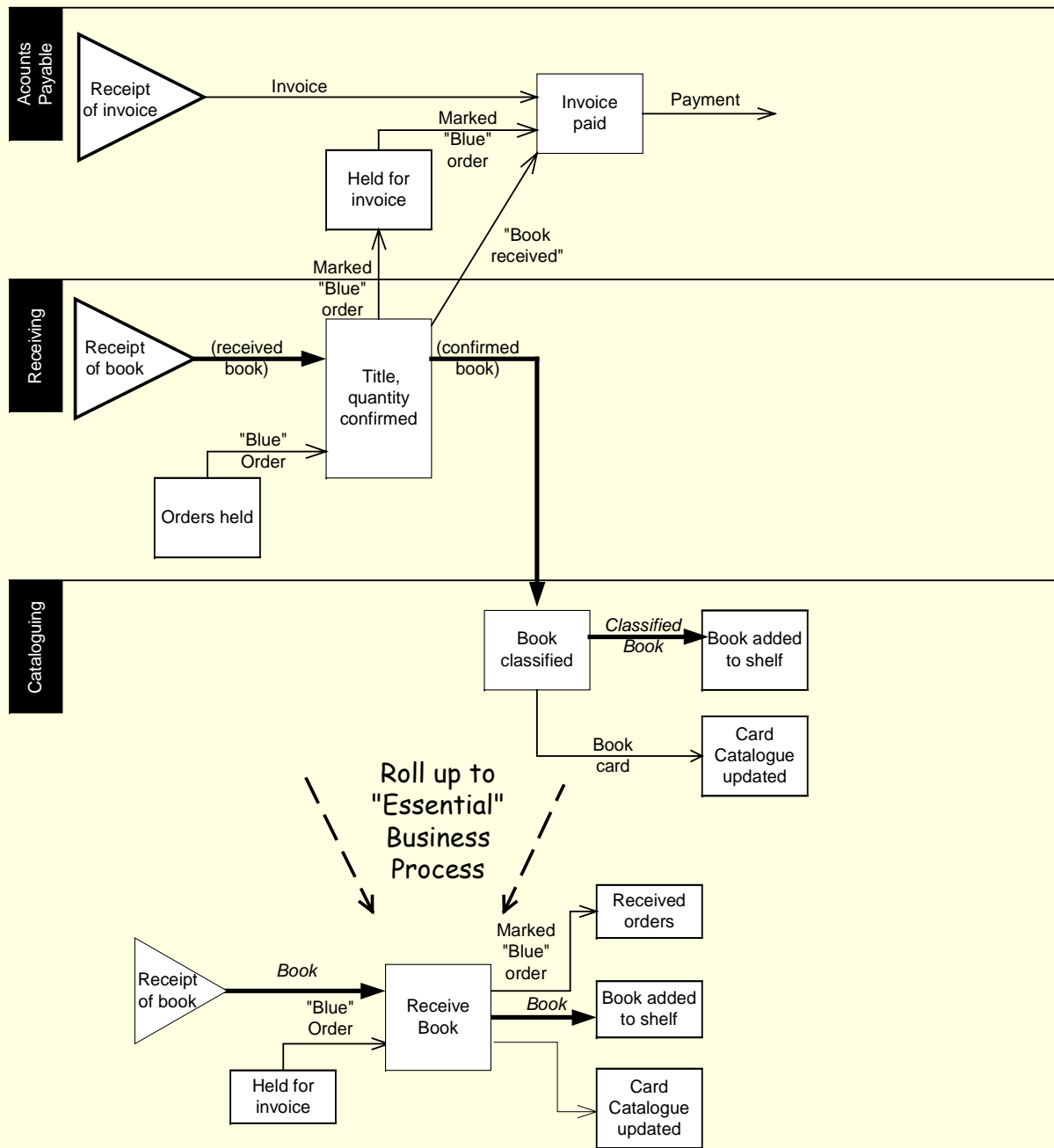
# The Architecture Framework . . .

	<b>Data (What)</b>	<b>Activities (How)</b>	<b>Locations (Where)</b>	<b>People (Who)</b>	<b>Time (When)</b>	<b>Motivation (Why)</b>
<b>Objectives / Scope (Planner's view)</b>	List of things important to the enterprise 	List of processes the enterprise performs 	List of enterprise locations 	Organization approaches 	Business master schedule 	Business vision and mission 
<b>Enterprise model (Business Owners' Views)</b>	Language, divergent data model 	Business process model 	Logistics network 	Organization chart 	State / transition diagram 	Business strategies, tactics, policies, rules 
<b>Model of Fundamental Concepts (Architect's View)</b>	Convergent e/r model 	Essential data flow diagram 	Locations of roles 	The viable system, use cases 	Entity Life History 	Business rule model 
<b>Technology Model (Designer's View)</b>	Data base design 	System design, program structure 	Hardware, software distribution 	User interface, security design 	Control structure 	Business rule design 
<b>Detailed Representation (Builder's View)</b>	Physical storage design 	Detailed program design 	Network architecture, protocols 	Screens, security coding 	Timing definitions 	Rule specification program logic 
<b>Functioning System</b>	<i>(Working System)</i>					
	Converted data	Executable programs	Communications facilities	Trained people	Business events	Enforced rules



Row two:  
The business owner's View

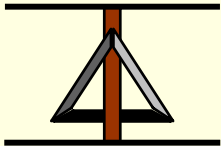
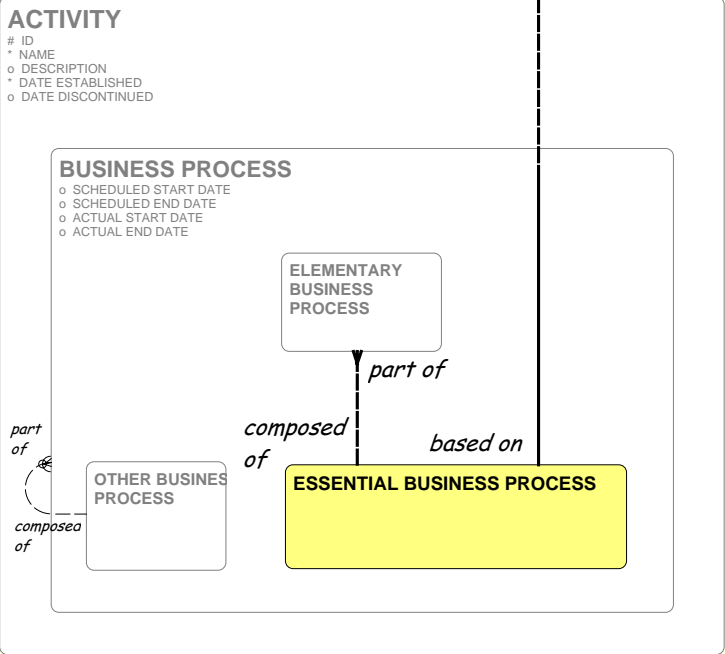


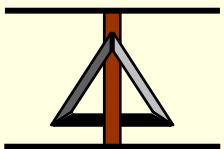
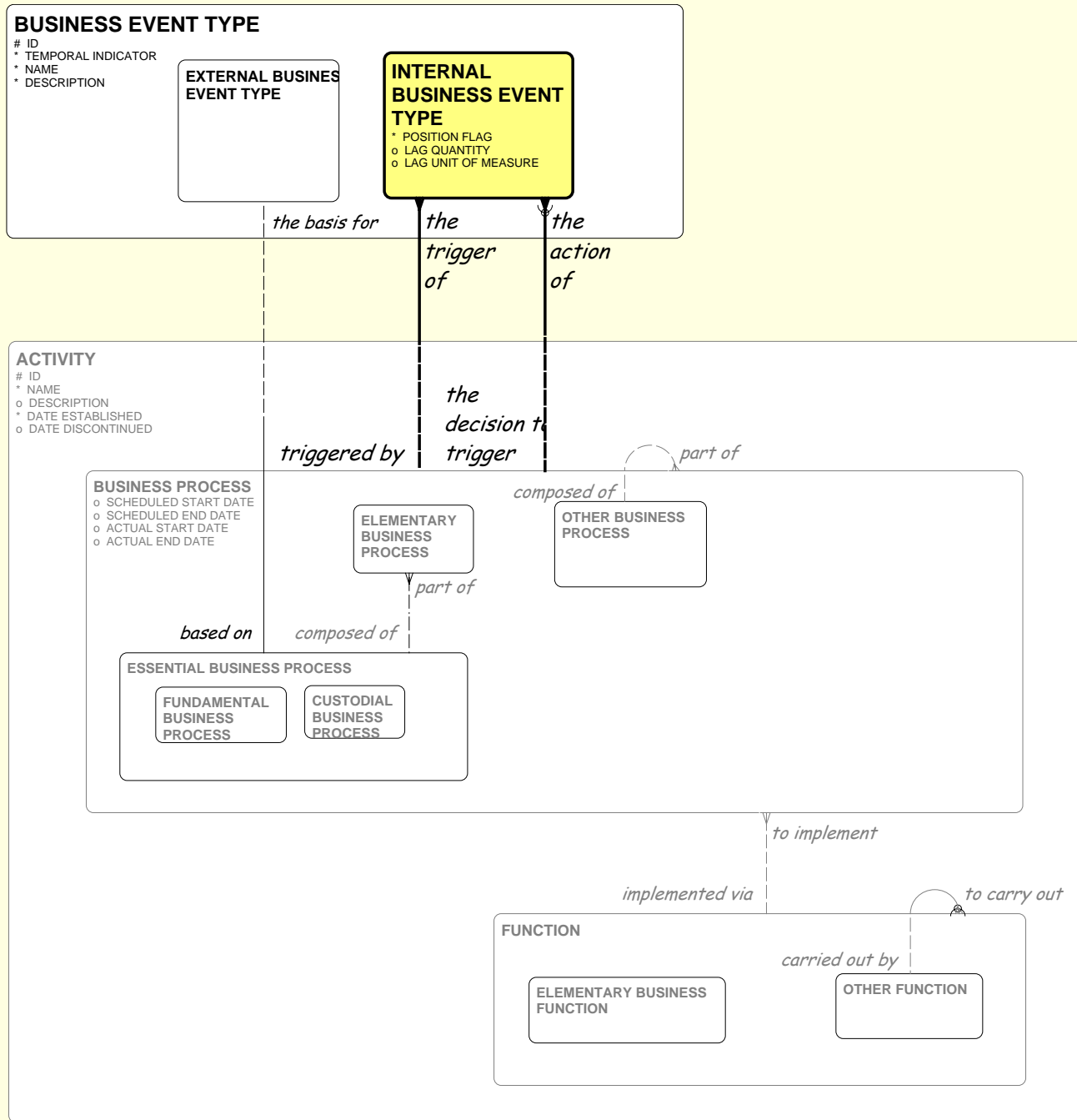


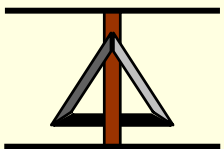
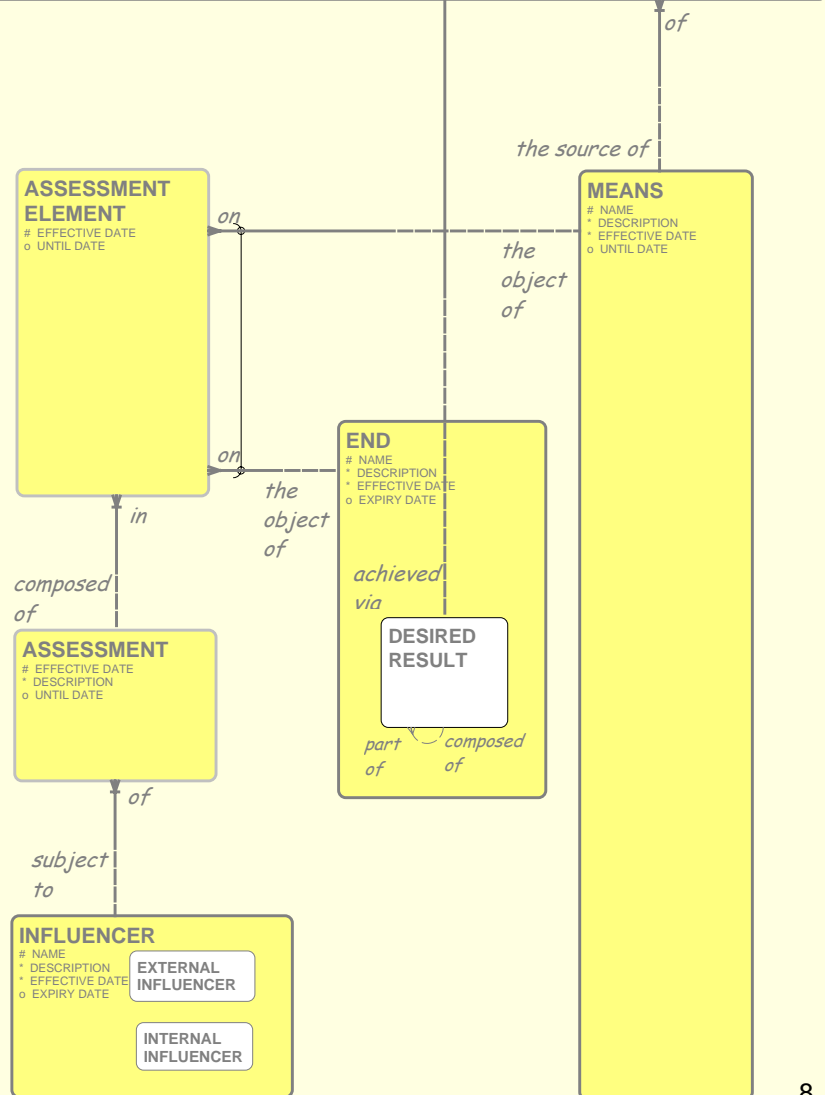
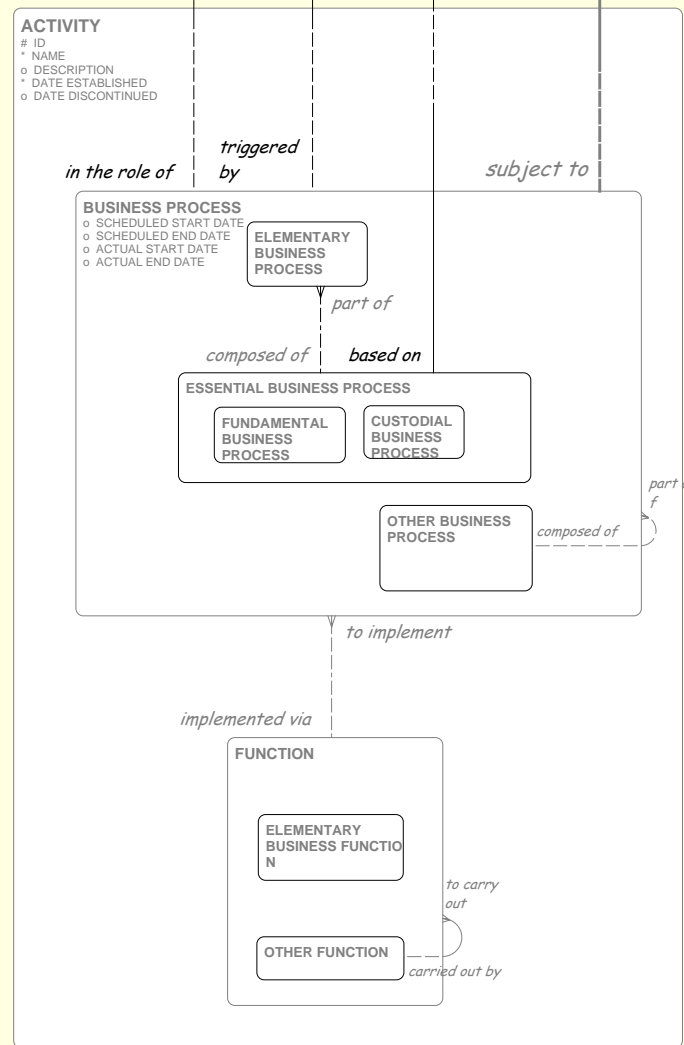
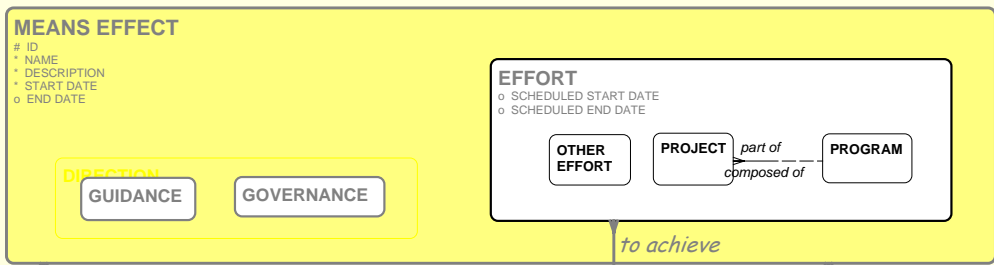
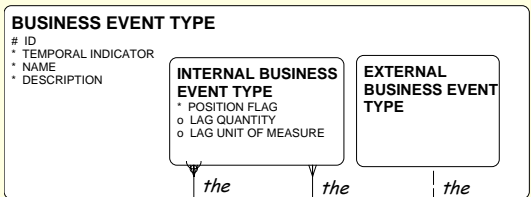


**EXTERNAL BUSINESS EVENT TYPE**  
\* TEMPORAL INDICATOR

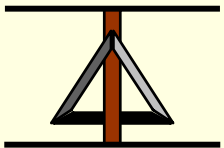
*the basis for*

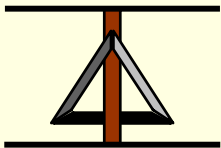
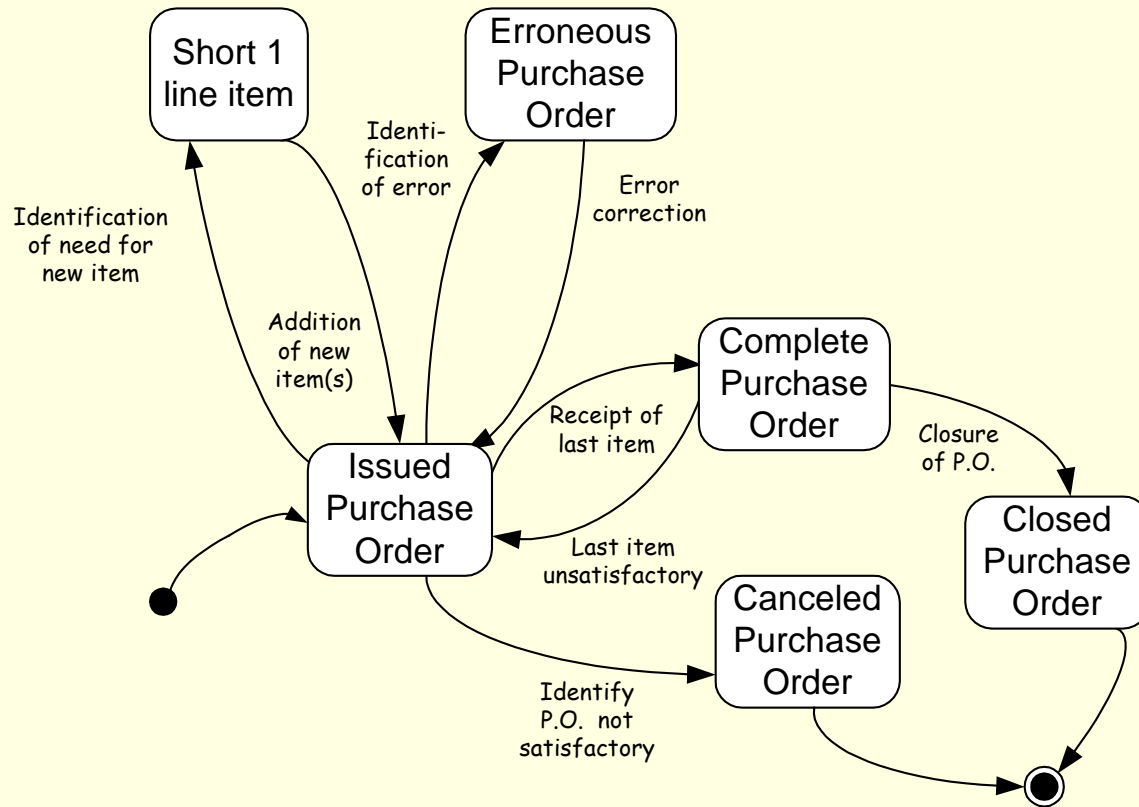


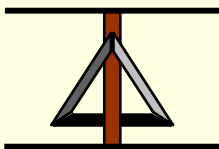
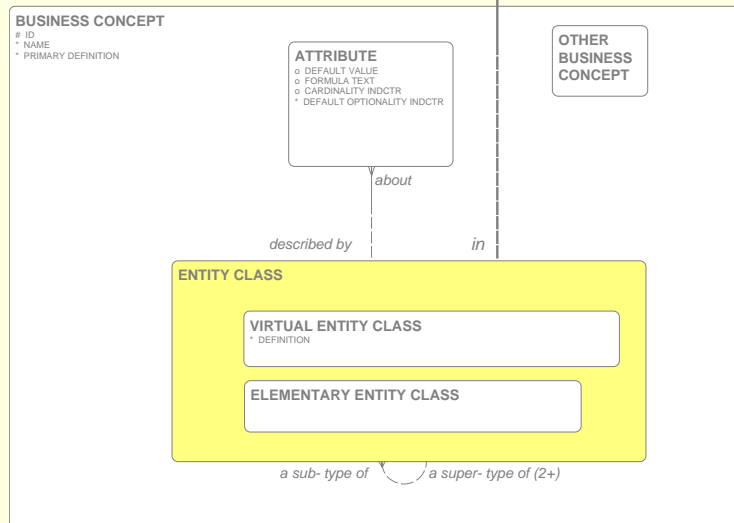
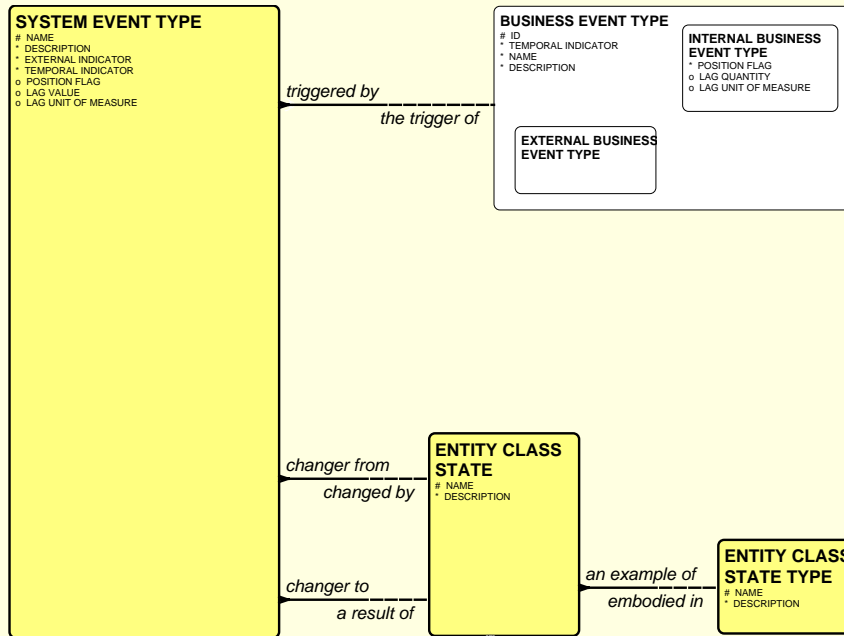


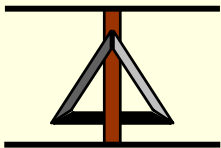
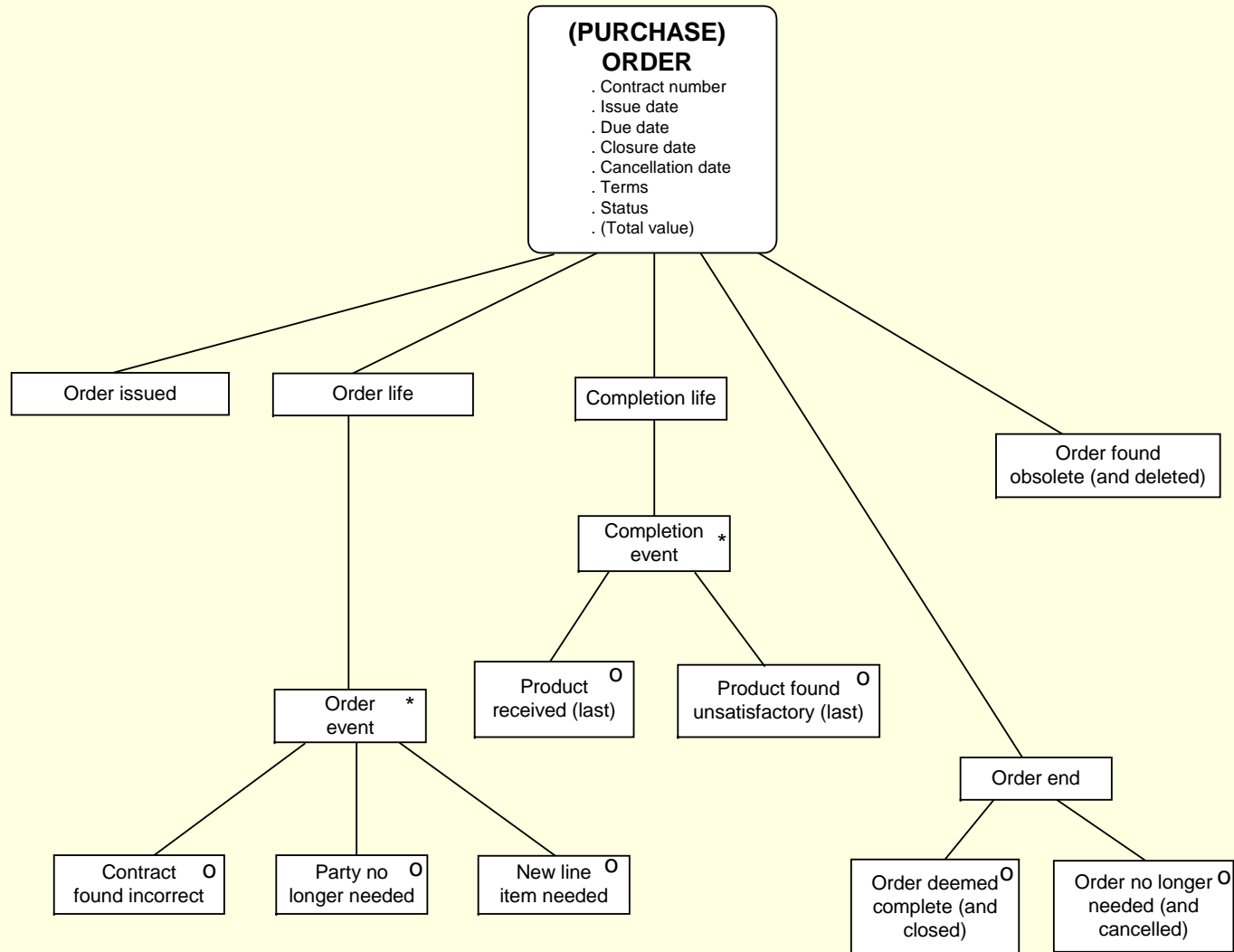


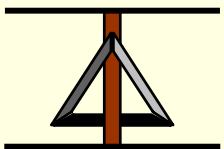
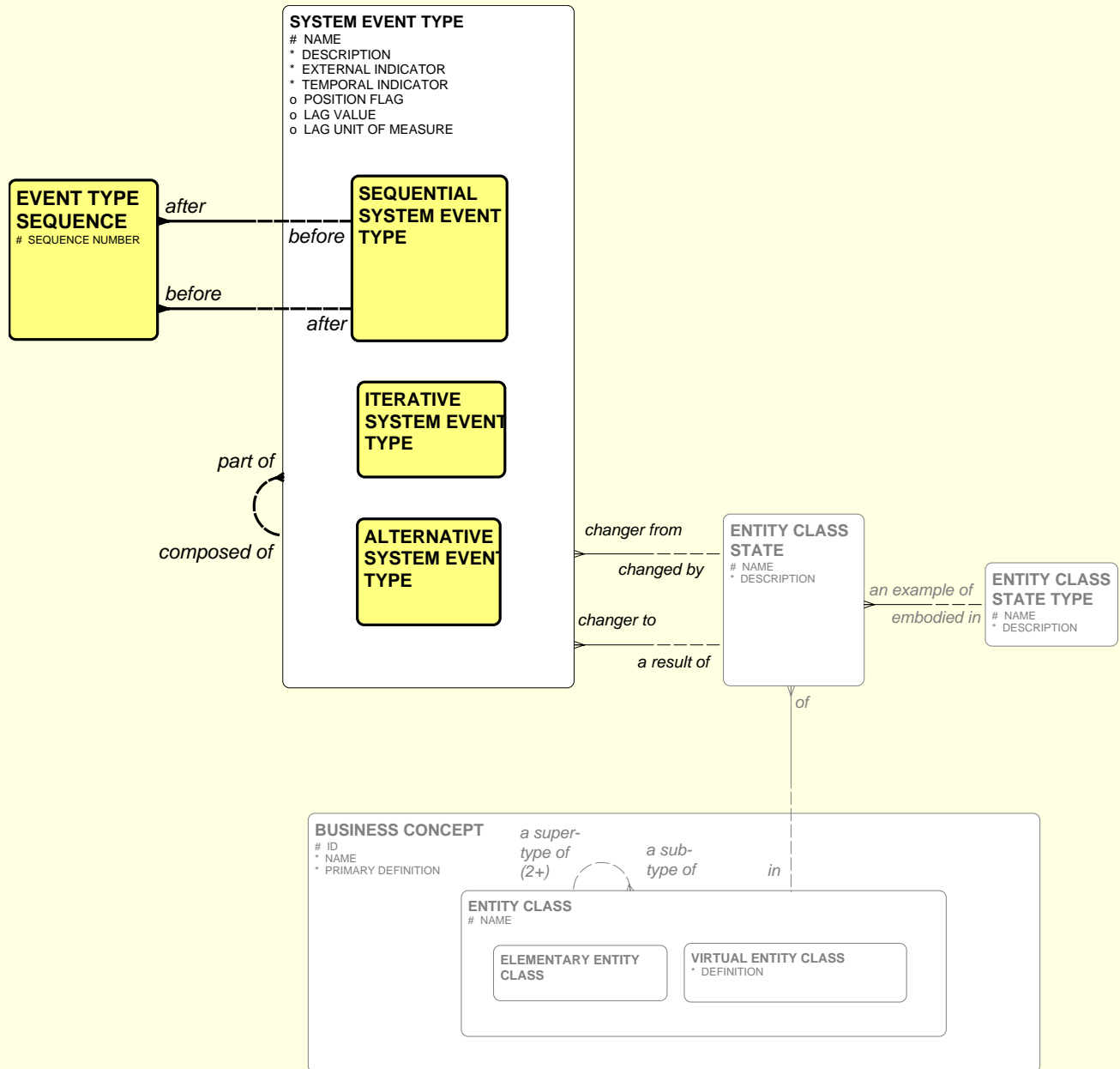
Row three:  
The architect's View





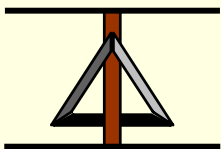
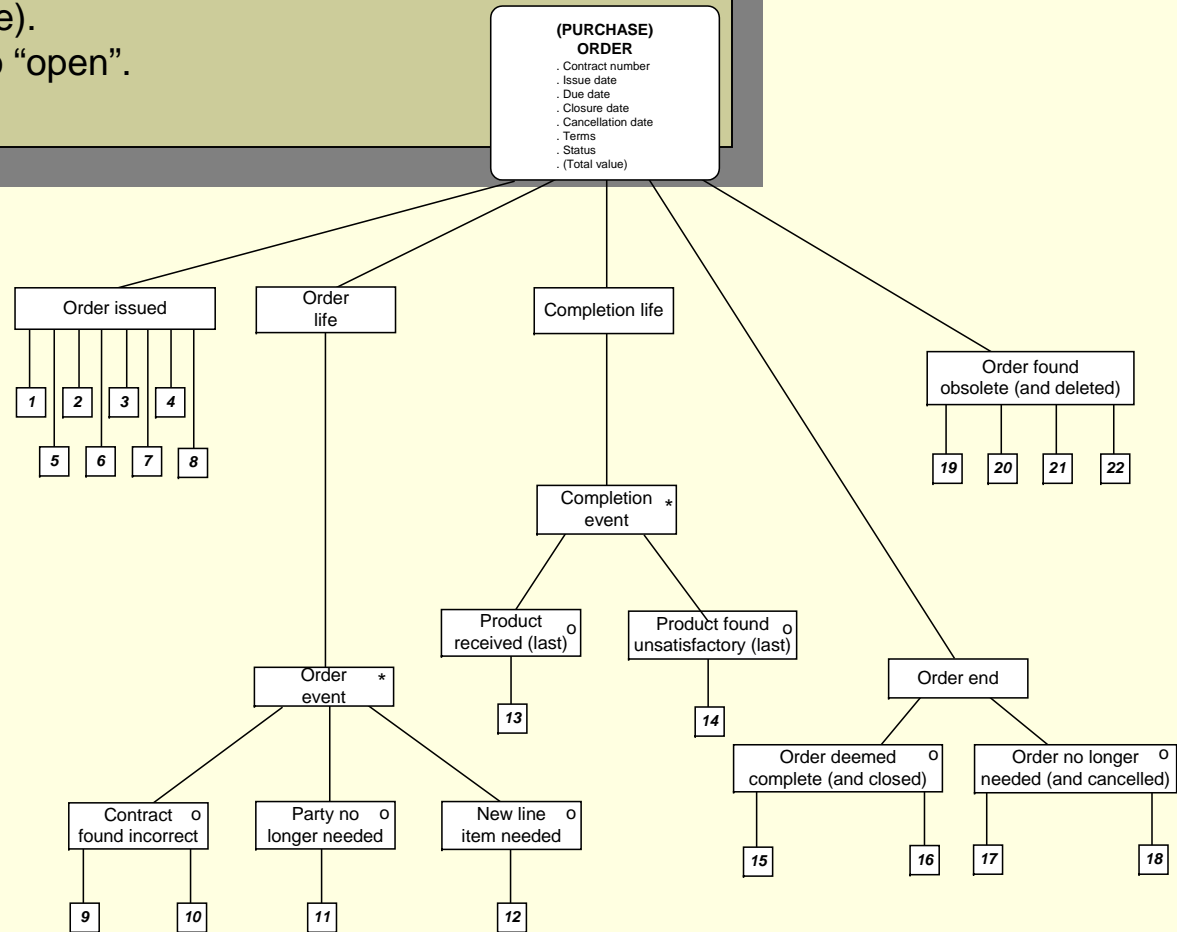


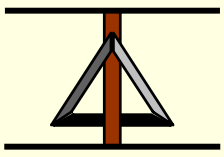
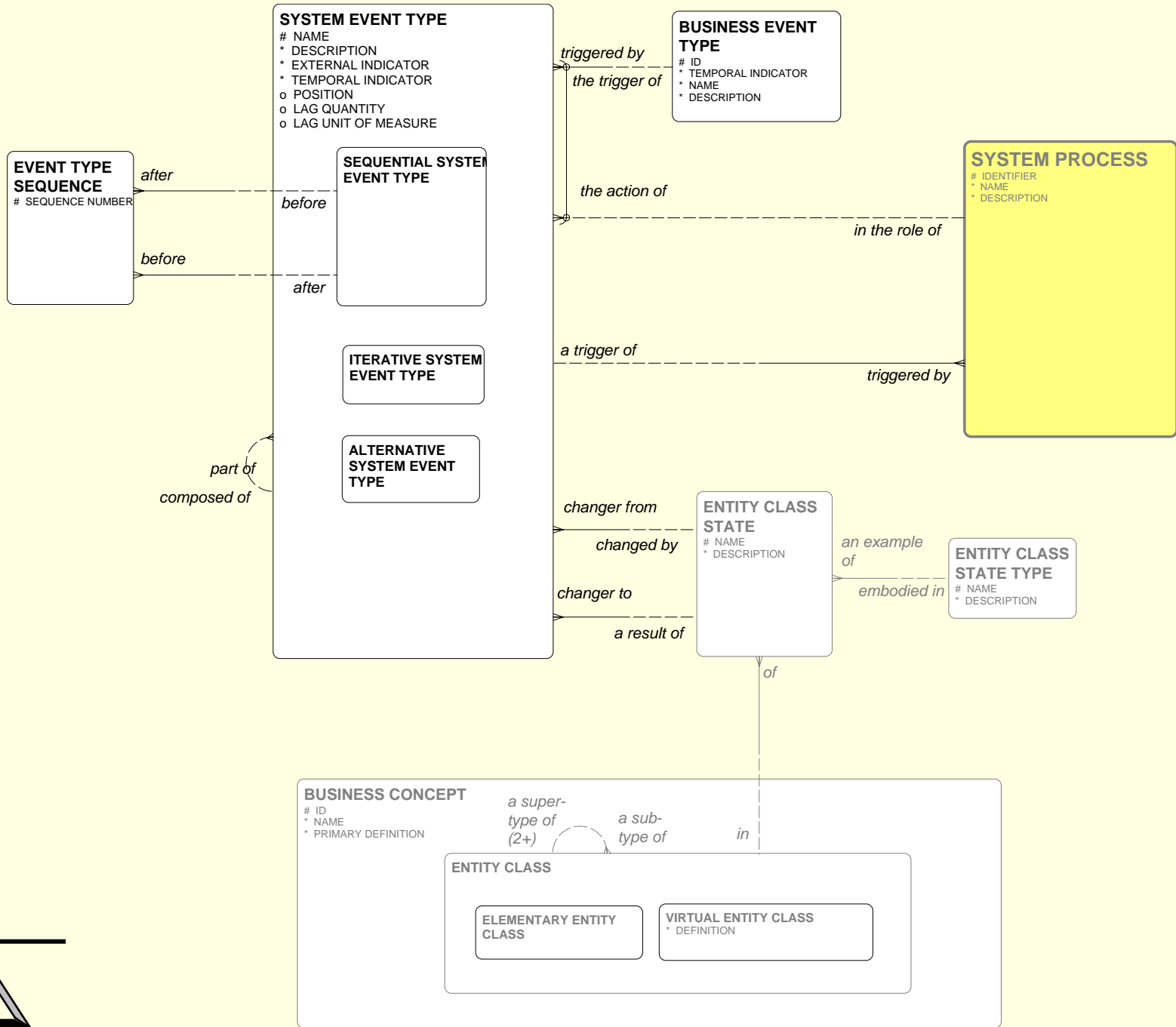


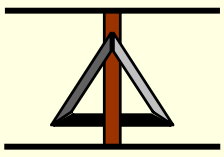
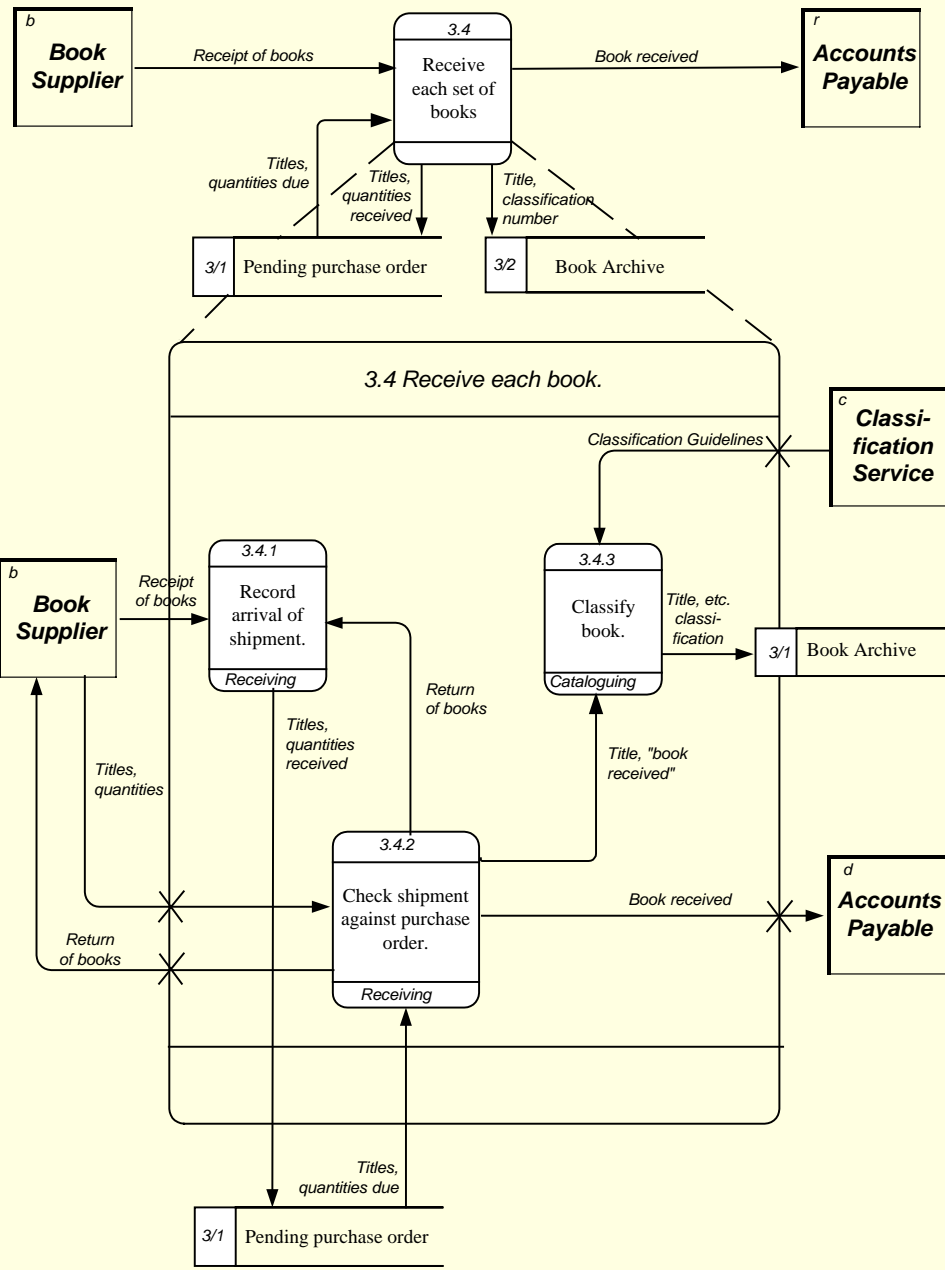


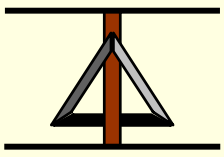
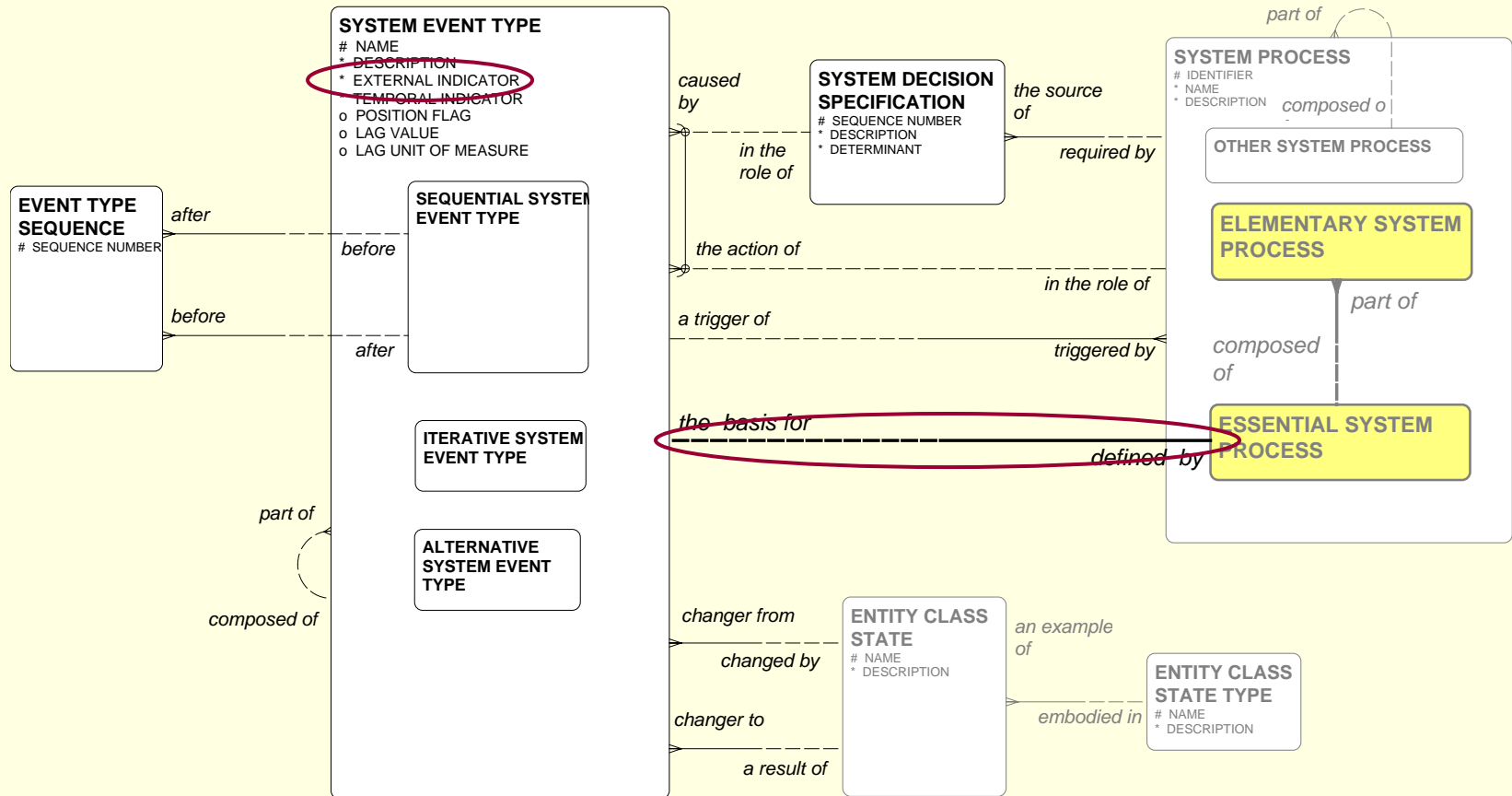
## Order issued:

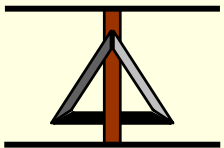
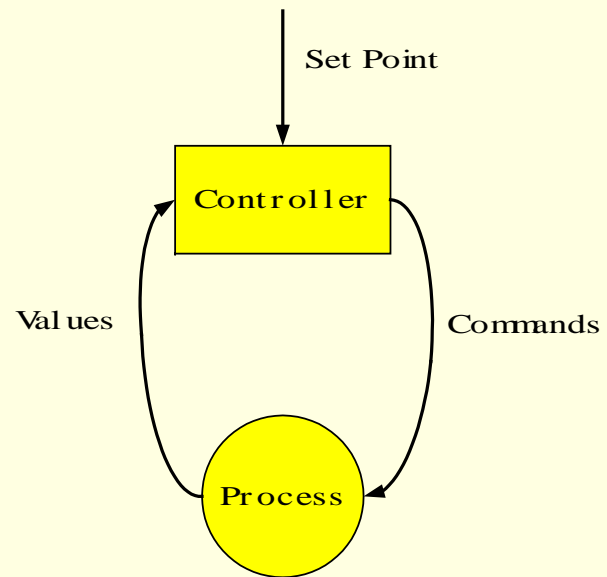
1. Create order.
2. Tie order to *from* party.
3. Tie order to *to* party.
4. Create one or more line items, and tie them to an order.
5. Set order (Issue date).
6. Set order (Due date).
7. Set order (State) to "open".
8. Set order (Terms).

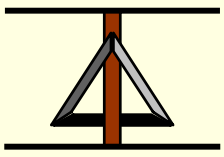
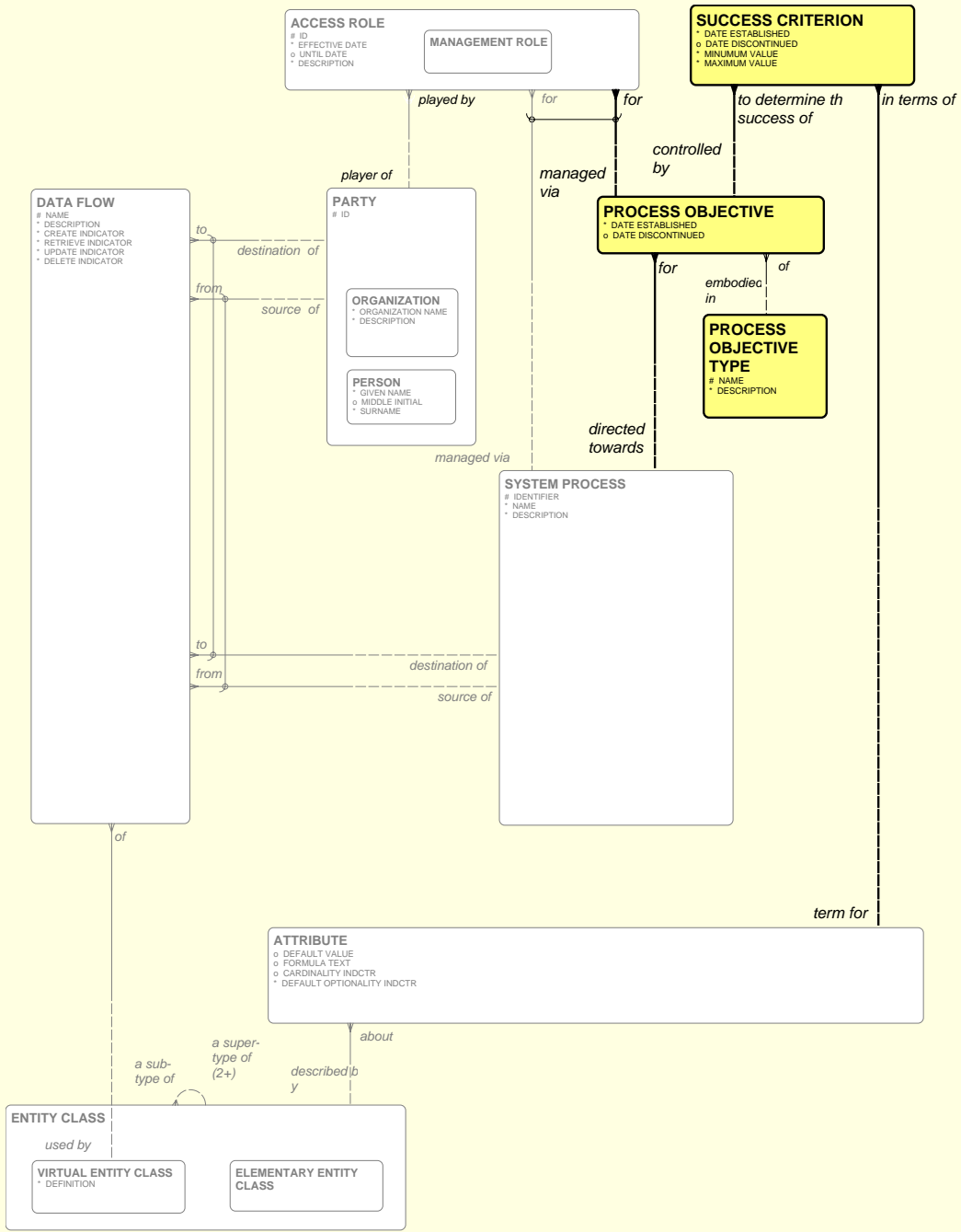




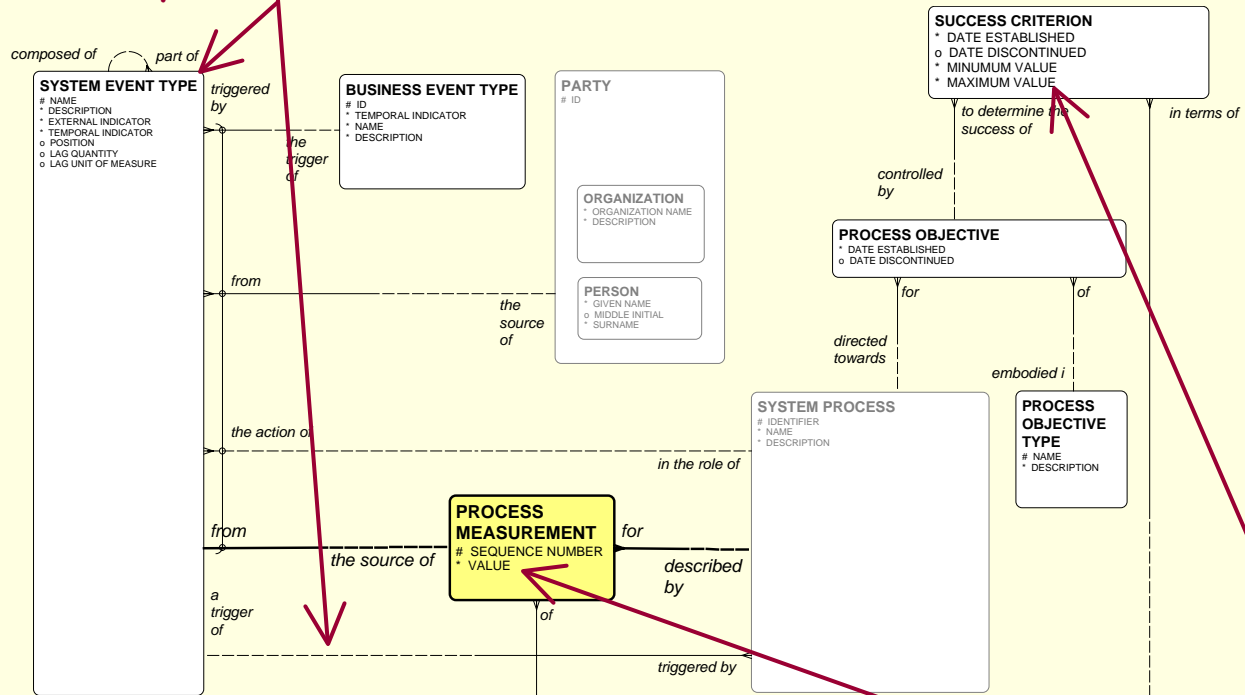




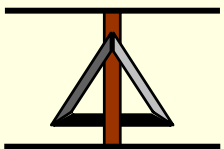
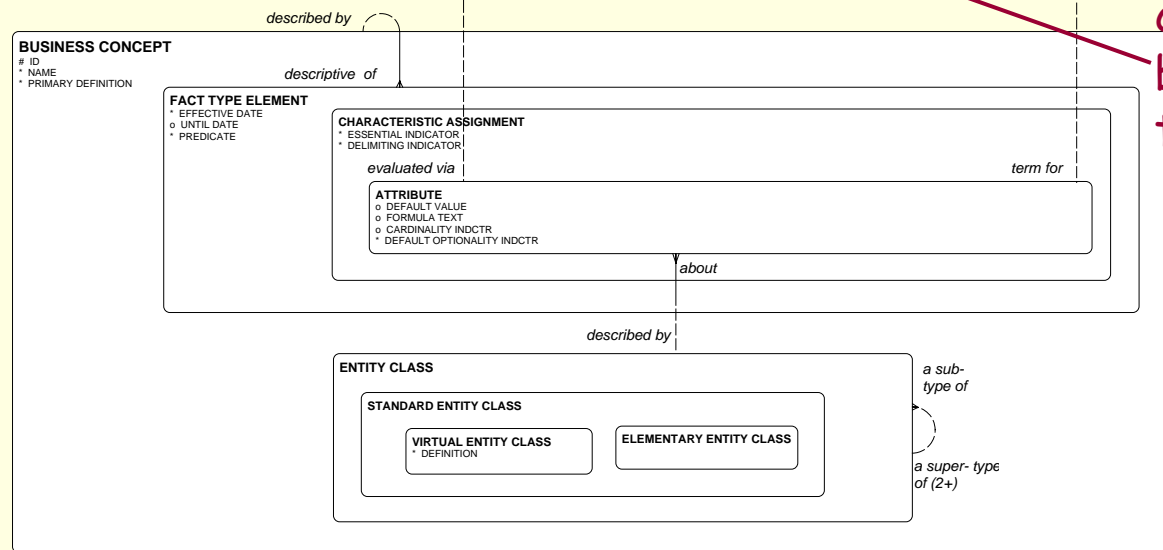




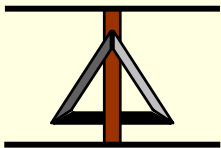
...can yield this.

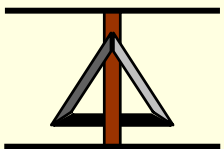
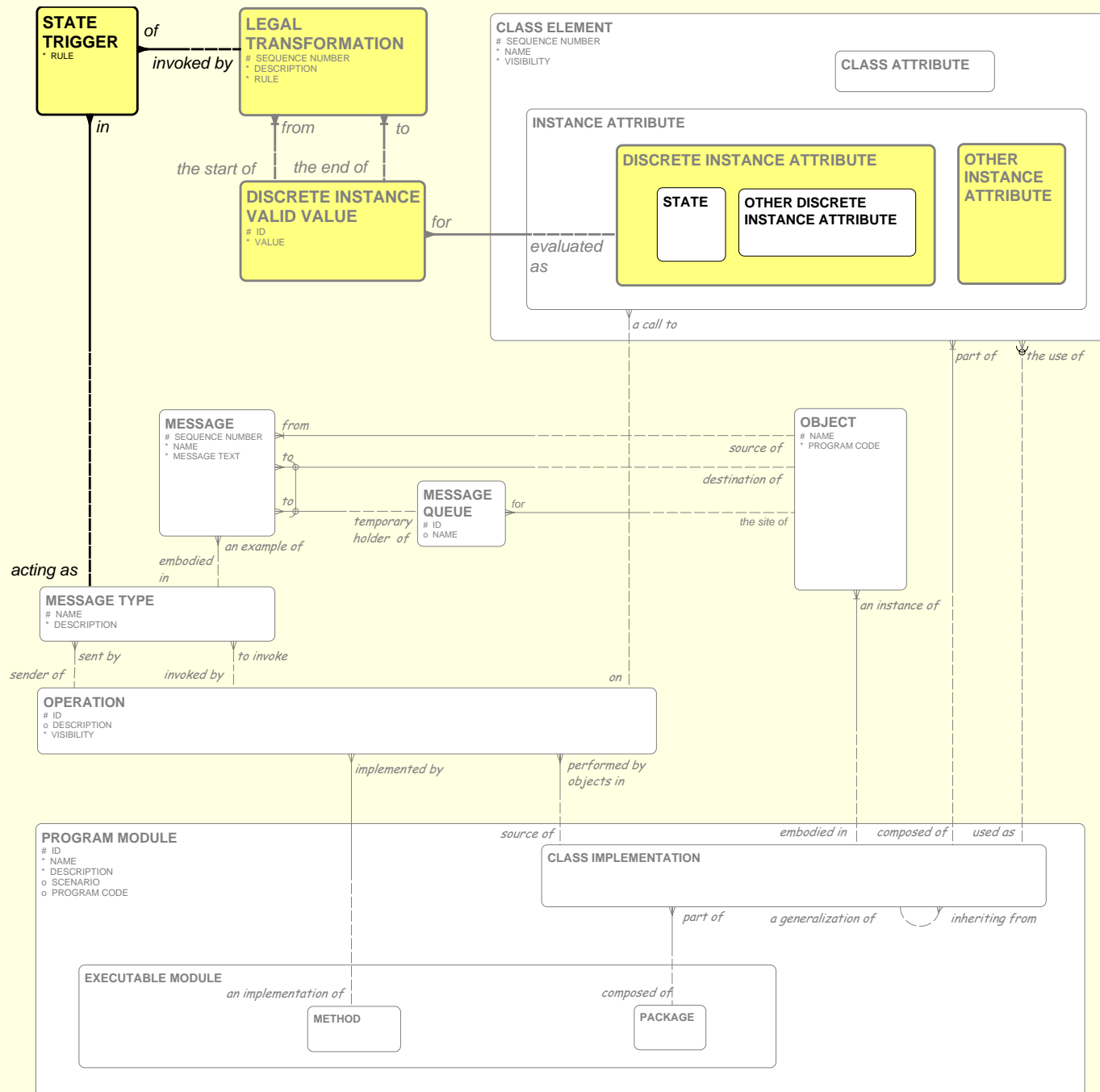


A comparison between these two...



Row four:  
The designer's View





. . . to be continued . . .

