

Developing GOOD Business Frameworks

Ali Arsanjani, MUM
Nooshin Hakimi, OOT

July 7,1999	Ali Arsanjani Nooshin Hakimi	Draft
April 16, 2001		

Development Steps

1. Describe the business's dynamics as a grammar : understand the business domain and express its rules of behavior, its "manners" as a language using a domain-specific grammar
 - 1.1. This can start as business process modeling, modeling of workflow
 - 1.2. But also as subsystem analysis which partitions a domain into loosely coupled interacting subsystems with well defined business functionality and rules.
2. Describe the static aspects of the business (data structures) as objects using XML Document Type Definition. Processing Instructions are the actions in the grammar.
3. Generate a User-interface dynamically by sending an xml dtd to the presentation layer. The presentation layer will decide, based on the capabilities of the device (PC screen, handheld device, appliance, cell phone, mainframe terminal, network computer, etc.) what type of GUI to generate or re-invoke.
4. The middle-tier (or one of the middle tiers in an n-tier architecture) will be a web-server with servlets; an application server. This will handle the business logic.
5. Data should be able to be stored locally; as in a slow-dial-up on a laptop; later to be sent to a central enterprise queue, waiting for processing. This introduces the notion of a local cache on the client or on one of the middle tiers; more durable ("Persistent") store at the back-end enterprise-wide level.
6. Generate code for the middle tier business logic using a meta-domain pattern such as Service Provider
7. Use a storage mechanism such as EJB's, OODBMS, RDBMS, etc. to persist objects.