

E-Film Hiring Project

Deliveries: Business Domain Model, Business Object Model
FIRST MACRO-ACTIVITY: BUSINESS MODELING (CONT.)

Second Step: Building the Business Domain Model

A domain model illustrates meaningful (to the modelers) conceptual classes in a problem domain and it is the most important artifact to create during the business modeling or software analysis. A domain model is a representation of real-world concepts, not of software components. It is not a set of diagrams describing software classes, or software objects with responsibilities. We will use it as a source of inspiration for designing software objects.

The domain model is the main candidate for reuse in software development. It derives from the business model by filtering the business meaningful business objects. So, the domain model step usually precedes or is carried out concurrently with the business processes model step.

In our case, we derive the domain model directly from both the business processes model and problem definition. Here is the procedure of the business domain model construction:

- a. Identify the domain concepts from the problem statement and business processes descriptions.
- b. Promote the domain concepts as classes in the domain model.
- c. For the objects of each class identified at the previous step, identify and analyze the properties.
- d. For each class identified in the previous steps, describe its purpose.
- e. Identify conceptual connections between concepts.
- f. Promote conceptual connections as associations between corresponding classes in the domain model.
Refine them identifying the compositions (eventually aggregations).
- g. Construct the class diagram of the business domain model.

Third Step: Building the Business Object Model

Remember from the lectures notes that the business object model is a business class diagram showing business workers and business objects. The requirement in this step is to construct the business object model using the business domain model and the business processes descriptions.