Programming Applications with Databases

Exercise Set 10

1. Following the attached example *DDDSample* create *application*, *domain* and *infrastructure* layers expressed by projects (in .NET) or in another way aligned with the selected technology.
   [**2p**]

2. Based on consideration from the previous exercise set, propose a draft domain model, i.e. define

   - which objects are entities and which ones are value objects,
   - for entities define their lifecycle, i.e. enumerate stage of "life" (e.g. order created, order completed, order payed, etc.),
   - propose aggregates keeping in mind transactions that are required to perform all operations in context of all views.

   As a result prepare appropriate class structure in the *domain* layer. At this stage each needs to include all properties, however, no business methods are needed for now.
   [**4p**]

3. Based on the results from exercise 3 from the previous exercise set prepare appropriate application services, i.e. for each domain model aggregate:

   - create an application service class with methods (empty for now) to support all methods required by UI views,
   - methods which supposed to return data extend with implementation that return certain fake data for now.

   [**4p**]

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