

Programming Applications with Databases

Exercise Set 9

All the exercises below apply to products. Please note that all implementations are expected on the basic level, i.e. no paging, filtering, data validation, etc. are expected.

1. Extend the *in-memory* implementation of the repository for products to ensure that it operates on the complete aggregate.
[2p]
2. Extend the application services from the previous exercise set with all CRUD methods (add missing ones). Ensure that all respective data actions are executed using the *in-memory* repositories' implementations.
[2p]
3. Create a simple user web interface with the following views: (1) a list of products and (2) a product details view. Ensure that the application gets the data invoking the respective application service.
Remark: if someone is not capable of creating a web application, a CLI (console) one is also acceptable, but then 1p will be granted.
[4p]
4. Extend the web application with views that allow adding a new product and modifying an existing one. Again, ensure that new or modified data is stored in the *in-memory* repository.
[1p]
5. Extend the web application with the possibility to delete a product. Again, ensure that the change is reflected in the *in-memory* repository.
[1p]

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