Programming Applications with Databases

Exercise Set 12

1. For each repository interface create an implementation based on the in memory collections. Consider also generic implementation.
   [2p]

2. **[3p]** Create a repository based on NHibernate (or a similar ORM library). Make sure the following functionalities are introduced:

   - **[1p]** Identifiers based on HiLow generation (in case it is not supported in your ORM, please find a corresponding solution),
   - **[1p]** Components,
   - **[1p]** Enumerations,
   - **[1p]** Collections,
   - **[1p]** Associations.

   It is not required to implement filtering, sorting and paging in the retrieve methods, however the following methods are expected:

   - *Find(int id)*, can be based on the structure like *session.Get<User>(id)*, and
   - *FindAll()*, can be based on the structure like *session.CreateQuery("from User").List<User>()*.

   Finally, configure the solution to use the new repository and run all implemented tests to ensure it works properly.
   Remark: for the base implementation one can get 3 points and implementing each enumerated feature provides an additional 1 point.
   [3p+5×1p]

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