Spike Plan

Spike 5b Language: C#

Name: C# Layer Spike

Context:

Database applications typically consist of a number of Layers, usually consisting of a data access layer, a business layer, and a user interface layer.

Knowledge Gap:

The team has not implemented layered applications before.

Goals/Deliverables:

- 1. Command line application that is constructed from a
 - a. User interface layer
 - b. Business/Application Layer
 - c. Data Access Layer (DAL)
- 2. Constrains:
 - a. UI communicates with Business Layer via an Interface(s)
 - b. Business Layer accesses Data Access Layer via Interfaces
 - c. Separate layers into different namespaces and DLLs

Planned Start: Week 5 **Deadline:** Week 7

Planning notes:

- 1. Create a Data Access Layer that uses ADO.NET to fetch DataSets
 - a. This can be implemented as a number of Table Adapters within your DAL
- 2. Create a Service Interface within the Business Layer code
 - a. It fetches DataSets from the DAL and executes requested functionality
 - b. This will include "Manager" objects
- 3. Implement some basic business logic within your model (Business Layer)
 - a. E.g. The code needed to add a Review, with validation etc.
- 4. Implement a console user interface driven by command line arguments only
 - a. Use command line arguments to initiate commands, hard code values as needed