Spike Plan

Spike 1b
Language: C#
Name: ADO.NET Spike

Context:
Database programming involves connecting to the database, and issuing commands to retrieve, insert, update, and delete data. ADO.NET is the fundamental database technology in the .NET framework.

Knowledge Gap:
The team is not familiar with the ADO.NET programming model.

Goals/Deliverables:
1. Command line application that demonstrates
    a. Connecting to the DBMS programmatically
    b. Inserting records into the database
    c. Deleting records from the database
    d. Updating records in the database
    e. Listing records from the database
    f. Selecting records based upon a condition/filter
    g. Opens/closes the connection in a way appropriate for the DBMS

Planned Start: Week 2
Deadline: Week 4

Planning notes:
1. Build the database using mysql and the mysqldump file and command provided.
2. Create a solution and project in Visual Studio, or create folder structure and write makefile/MSBuild script.
3. Develop C# class and test connection to database
4. Write code to read data from the archer table, get application to write to console. Use **list** command line argument to perform this test. You do not have to fetch all fields for the listing.
5. Write code to insert records into the database. Use the **insert** command line argument to perform this test. Request information from the user via the console.
6. Write code to update a record in the database. Use the **update** command line argument to perform this test. Request additional information from the user via the console.
7. Write code to delete a record from the database. Use the **delete** command line argument to perform this test. Request additional information from the user via the console.
8. Complete the application by writing code to list the details of a selected record. Use the **find** command line argument to perform this test. Request additional information from the user via the console.