Humane Society User Stories

**\*HINT: Look into LINQtoSQL classes**

**Project out of 105 points**

As a developer, I want to contribute to the backend of an application for a humane society that stores and displays data about dogs, cats, and other animals in a database (created using the provided ‘HumaneSociety\_DBCreation.sql’ file).

The ‘Query.cs’ file contains many methods that currently throw the ‘NotImplementedException’. The primary goal of this project is to implement these functions. Be sure to create separate, private functions when necessary so that no single function is too large or directly responsible for too many things. While you shouldn’t need to alter any of the starter code, it is imperative to read through it to get a general understanding of how the application is meant to function, and how the methods you implement are going to be used.

\*\*\*category is the equivalent of an animal’s “species” (i.e. dog, cat, etc)

**(10 points)** As a developer, I want to seed my database with at least 5 categories, 5 diet plans, 5 animals, 10 rooms, 5 employees, and 5 clients by writing queries using SQL Server Management Studio. I will save these queries to a .sql or .txt file to save for review.

**(15 points)** As a developer, I want to use LINQ extension methods and/or LINQ query operators where ever applicable in my application.

**(10 points)** As a developer, I want to implement the Query.RunEmployeeQueries() method so that any CRUD operation can be applied to an employee.

**(10 points)** As a developer, I want to implement the various methods in the Query class that pertain to Animal CRUD operations.

**(10 points)** As a developer, I want to implement the Query.SearchForAnimalByMultipleTraits() method to return a list of animals that fit every criteria passed to me.

**(10 points)** As a developer, I want to implement the various methods in the Query class that deal with animal-related things. Query.GetCategoryId(), Query.GetRoom(), and Query.GetDietPlanId().

**(15 points)** As a developer, I want to implement the various methods in the Query class that pertain to Adoptions.

**(10 points)** As a developer, I want to implement the various methods in the Query class that pertain to Shots.

**(10 points)** As a developer, I want to use C# best practices, SOLID design principles, exception handling, null checking, and good naming conventions when building my application.

**(5 points):**As a developer, I want to make good, consistent commits.

**BONUS User Stories:**

**(5 points)**As a developer, I want to use LINQ to import a CSV file that already contains data about several animals that are being transferred from a different humane society. I want to use that data to add the animals from the CSV file to the database.