## Product Requirements Document

Project 2:

Animal Shelter Management System

*ENGI-3675 WA  
Database Systems*

*Group 2:*

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**Objective**

This objective of this project is to create a web solution to manage animals for an Animal Shelter that works in Chrome (v39) and Internet Explorer (v11). This will be implemented by a CRUD interface in ASP displaying a dynamic table that would allow a user to insert or delete animals and to update the attributes of existing animals. The solution should be resistant against injection attacks by implementing prepared statements and produce a web solution that adheres to w3 HTML5 web standards.

**Design Mockup**



*\*Additional images and stylesheet can be found in scripts*

**Data model**

Each animal will be represented by an entry within the table with the following attributes:

* Serial\_Number (integer/primary key)
* Breed (text not empty)
* Weight(float/real) between 0 and 500
* Age(float/real) between 0 and 100

public class Animal

{

public string AnimalBreed;

public double AnimalAge;

public double AnimalWeight;

}

**ASP CRUD implementation**

Separate CRUD from ASP by using a CRUD C# functions that utilize dictionary<Int, ClassAnimal> to return objects and interact with the database.

Create  
 Function: DataNew(AnimalClass)  
 Return: Int

Read  
 Function: DataDict()  
 Return: Dictionary<int, AnimalClass>

Update  
 Function: DataUpdate(Int,AnimalClass>  
 Return: Int

Delete  
 Function: DataDel(int)  
 Return: Int

These functions are used by ASP to generate the webform and unittests.

**Change Matrix**

|  |  |  |
| --- | --- | --- |
| Date | Name | Changes |
| 3/12/2015 9:32:00 PM | Slim Babay | Added a Change Matrix |
| 3/12/2015 6:24:13 PM | Slim Babay | Capitalized all function names |
| 3/12/2015 5:52:21 PM | Slim Babay | Made PRD more specific (added implementation) |
| 3/12/2015 12:49:22 AM | Slim Babay | 1st Draft of PRD |