Campus Animals
Data Design Document

Submitted to:

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Unique Reference:

The documents are stored in the GitHub repository, bit.ly/CampusAnimals.

Data Design Document: Campus Animals - Data Design.pdf

Document Purpose:

This document lays out the system's design and organization of data. This document also includes the persistent design for the database.
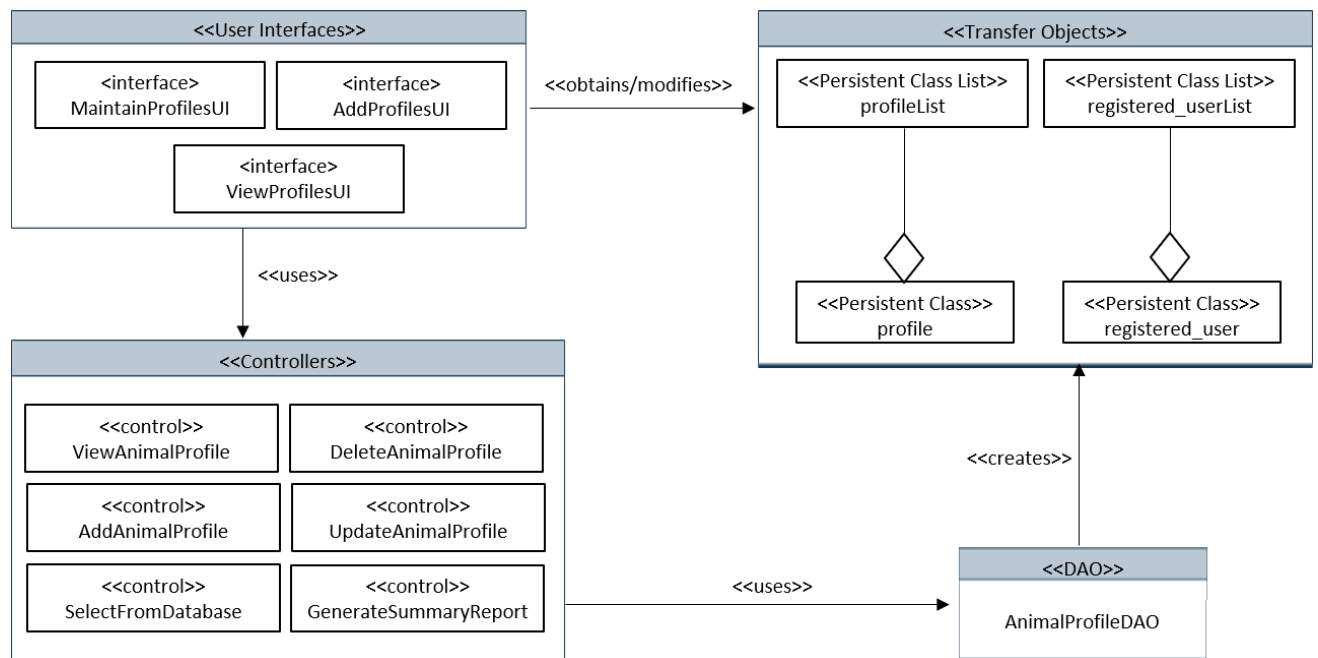
Target Audience:

Residents of UP Diliman.

Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Contribution/Modification
10/23/2018	Arianne Gallardo	1.0	Initial Document
10/24/2018	Arianne Gallardo	2.0	Data design diagram; Description for the DAO and transfer objects
10/24/2018	Roy Yabut	3.0	Target Audience, List of Data Source, Logical Database Design

Data Design:

Data Access Object (DAO) or DBClasses:

Class Name	Description
DBAnimalProfile	This data access object is responsible for getting data of an animal profile from a database. This DAO is used by the controllers to create new transfer objects, which will then be fetched or obtained by the user interfaces to display information. The UI's may also modify these transfer objects based on the input of either a visitor or a registered user.

TransferObject or Persistent Classes:

Class Name	Description
registered_userList	This transfer object or persistent class is responsible for holding a list of registered_users. This will be useful for the maintaining the access to the actual database.
ProfileList	This transfer object or persistent class list is responsible for holding a list of animal profiles. This is useful for the *Filter Animal Profiles* feature wherein only elect animal profiles will be shown based on the preferences set by the user.
registered_user	This transfer object or persistent class is responsible for holding a single registered_user profile. This contains the information regarding a registered user account, including its credentials.
profile	This transfer object or persistent class is responsible for holding a single animal profile. This contains all the information on the animal profile.

List of Data Source:

Database Name: Animal Profile Database
Description: This is the database that contains the profiles of the animals taken in the UP Diliman campus. The following are the list of tables:

Tables	Descriptions
User	It contains the record of all Users.
Animal	It contains all the records of Cats or Dogs.
Picture	It contains any picture for the animals.
Building	It contains the records for the Buildings that are relevant for animal profiling in UP Diliman.

Logical Database Design:

USER

U_ID	Name	Rank
INT	VARCHAR()	VARCHAR()
99999	X(150)	X(100)
PK	**UA, NN**	**UA, NN**
00001	Jenicka Tan	Secretary General
00002	Theresa Rigor	Public

Animal

A_ID	Name	Gender	Color	Markings	Neutered	Vaccinated	Adopted	Remarks	Cage Label
INT	VARCHAR()	VARCHAR()	VARCHAR()	VARCHAR()	BOOLEAN	BOOLEAN	BOOLEAN	VARCHAR()	VARCHAR()
999999	X(150)	X(20)	X(50)	X(100)	T,F	T,F	T,F	X(10000)	X(1000)
PK	**NN**	**NN**	**NN**	**NN**	**NN**	**NN**	**NN**		
000001	Cotton	Male	White	Spot in the right ear	T	F	T	Has high energy	32
000002	Spot	Female	White, Black	2 big black spots on the head	F	F	F	Silent	FOR ATTY. QUIMBO
000003	Mallows	Male	Orange	3 stripes in the right paw	F	F	F		33

Picture

Picture_ID	A_ID
VARCHAR()	INT
X(10000)	999999
PK	**FK, NN**
00001	000001
00002	000002

Building

B_ID	Name
INT	VARCHAR()
999	X(150)
PK	**NN**
001	College of Mass Communication
002	Film Institute