**Data Dictionary**

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| **Class Number** | **Traceability** | **Object Name** | **Attributes and Associations** | **Definition/Description** |
| CN-01 | UC-02, UC-03, UC-07, UC-09, UC-10, UC-13, UC-14 | Animal | - idNumber  - name  - breed  - size  - age  - species  - gender  - isHypoAllergenic | - Animals, within the shelter, ready for adoption. Each animal has a set of attributes (unique physical, and non-physical), as well as a name. The set of non-physical and physical attributes are used in determining potential matches with clients, using the ACM algorithm. |
| CN-02 | UC-05, UC-04, UC-07, UC-11, UC-12, UC-13, UC-14, UC-15, UC-16, UC-17, UC-18 | Client | - Physical traits  - Non-physical traits  - Unique client ID number | - An individual wishing to adopt an animal from the shelter. Each individual has their own physical characteristics, as well as non-physical characteristics that are used in determining a potential match with an animal, using the ACM algorithm. |
| CN-03 | UC-01, UC-02, UC-03, UC-04, UC-06, UC-07, UC-08, UC-09, UC-10, UC-11, UC-12, UC-13, UC-14, UC-15, UC-16, | StaffMember | - Unique Staff ID number  - staff member personal traits | - An individual who is employed by the Shelter. Can also be a client of the shelter. |
| CN-04 | UC-04, UC-05, UC-11, UC-12, UC-15, UC-16, UC-17, UC-18, UC-19 | Client\_Management\_System | - Client | - An instance of the Client Management System, responsible for accessing client records and information, as well as sending new records/information to the client storage device  - Can be accessed by clients and staff members |
| CN-05 | UC-02, UC-03, UC-09, UC-10, UC-13, UC-14, UC-19 | Animal\_Management\_System | - Animal | - An instance of the Animal Management System, responsible for accessing animal records/information from the storage device. Also responsible for sending edits, changes and new information about the Animals to the storage device.  - Can be accessed by staff members only |
| CN-06 | UC-01, UC-06, UC-19, UC-07, UC-08 | Control | - storage  - view  - fileSaver | - An instance of the Carleton University Animal Care System matching algorithm (cuACS), launched by a staff member  - the object responsible for the flow and the control of various entity objects, such as animal, staffMember, and client, as well as interactions with the storage and saving |
| CN-07 |  | View |  | - object responsible for the sending data to and from the graphical user interface |
| CN-08 |  | Storage | - numElements  - animalList  - largestID | - the system used to store animals, clients, and other entity objects |
| CN-9 | UC-20, UC-21, UC-22, UC-23, UC-24, UC-25 | FileSaver |  | - object for reading and writing data to and from the data file storage |