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CS 340 Project One Milestone Submission

Grazioso Salvare CRUD Module Documentation

**1. Purpose**

This Python module (crud\_module.py) enables CRUD (Create, Read, Update, Delete) operations for a MongoDB collection used by Grazioso Salvare to track animals from the Austin Animal Center. The goal is to support identification of suitable animals for specialized training in rescue operations.

**2. Technology Stack**

- MongoDB

- PyMongo

- Jupyter Notebook

- Python 3.x

**3. MongoDB Driver**

This project uses the official PyMongo driver, chosen for its native support, active development, and seamless integration with Python-based applications.

**4. CRUD Class Overview**

- create(data): Inserts a document into the AAC database. Returns True if successful.

- read(query): Finds all documents matching the query. Returns results as a list.

- update(query, new\_values): Updates documents matching the query with the provided values. Returns the number of modified records.

- delete(query): Deletes documents matching the query. Returns the number of records deleted.

**5. Functional Demonstration**

Insert screenshots in the following sections:

MongoDB Data Import  
  
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