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CS 360

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ReadMe file

This project helps a company called Grazioso Salvare. They work with animal shelters to find dogs that can be trained to save people in emergencies like floods or earthquakes.

I built a special Python file (called a “module”) to talk to the animal shelter’s database. The database stores information about all the animals, like their names, types, breeds, and ages.

Python file can:

Add new animals to the database (Create)

Find animals in the database (Read)

Update information about animals (Update)

Delete animals from the database (Delete)

That’s why we call it CRUD (Create, Read, Update, Delete)

The file is called AnimalShelter.py.

Inside it, we have a class called AnimalShelter. When I use it in Python, I connect to the database using a username and password. Then, we can use different functions to work with the animals.

We used something called PyMongo. It helps Python talk to the MongoDB database.

PyMongo is great because:

It’s easy to use with Python.

It works with real MongoDB databases.

It helps keep the connection secure.

create(data)

Adds a new animal to the database.

Example: Add a dog named Buddy.

read(query)

Finds animals in the database using filters.

Example: Find all dogs named Lucy.

update(query, new\_data)

Changes information about animals.

Example: Change Buddy’s breed to Golden Retriever.

delete(query)

Removes animals from the database.

Example: Delete all animals older than 10 years.













