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CS-499

Artifact 3 Narrative

The Grazioso Salvare Animal Shelter's web application dashboard was created during my last semester of the CS340 course, which concentrated on Client/Server Development and Database Management. This project was critical in implementing MongoDB widely, which was a prominent theme throughout the course. Users may utilize the dashboard to pick different rescue kinds, apply filters to data in a table, and examine corresponding charts and maps. It serves as a full presentation of my software development abilities, utilizing Python, Dash, Flask, MongoDB, and Plotly to improve data processing efficiency.

Originally built to satisfy course objectives in creating strong database systems, the project was significantly improved to expedite data processing and increase overall project efficiency. One of the most difficult difficulties I encountered was developing algorithms to increase data processing rates while maintaining accuracy. This method improved not just my grasp of algorithm optimization, but also my abilities in database management and software development.

In conclusion, this project was a fantastic learning opportunity that allowed me to apply theoretical principles from the classroom to real-world situations. It demonstrated my ability to solve complicated software development issues, improve database processes, and provide realistic solutions that meet industry requirements.