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CS-499

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5-2 Narrative

Briefly describe the artifact. The artifact is a C++ Pet Hotel Management System that allows users to check in pets and now includes a file-based database feature to store and retrieve pet records. It was enhanced during the database module to show knowledge of data persistence.

Why did you select this item? How was it improved? I chose this project because it demonstrates my ability to integrate database concepts into software design. The enhancement added file I/O operations so pet data can be saved and loaded, simulating a simple database system. It showcases skills in file handling, data management and structured storage.

Did you meet your planned outcomes? Yes. This enhancement met my goals for applying database principles, ensuring data reliability and improving program functionality through persistent storage.

Reflection on the process. I learned how to manage structured data using file streams and prevent data errors during read/write operations. The main challenge was keeping stored data accurate and preventing duplicates, which helped strengthen my understanding of database fundamentals.