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CS499: Milestone Four Narrative

8/6/2025

The artifact that I chose for this class is my Driver.java file and supporting classes from my Rescue Animal Management System project that I first created in IT-145. This project allowed for users to manage dogs and monkeys by intaking, reserving, and listing them. For this milestone, I enhanced it by integrating a database using SQLite and Java JDBC. I chose this artifact because it allowed me to show my skills in database integration, which is a key software development skill. The enhancement shows my ability to modularize code by separating logic into the DabaseHelper.java class, and to work with a SQL backend. I added the functionality to automatically create the database and tables when the program is launched. Also to insert a new dog or monkeys records into the tables.

I met the course outcomes that I originally planned for this milestone. My goal was to demonstrate outcome 4. This outcome focuses on using innovative tools to implement solutions that can deliver value. What I did for this enhancement by integrating a database aligned with this outcome. Throughout this enhancement I gained experience in using JDBC to connect a Java application to a SQLite database. I structured a PreparedStatement query to insert data. One challenge I faced was understanding how to include and reference external .jar files in my project. On top of that, I had to structure the flow of my application so that the connection to the database was first established.