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CS499 Capstone

Milestone Four: Enhancement Three: Databases Narrative

For this week, I concentrated on enhancing the functionality of my Event Manager app by implementing the planned enhancements for category three. My goal was to allow users to filter events by category, search events by keyword, and sort events by date. I have not completed all these features yet, but I was able to make progress on category filtering.

I added support for event categories, in which it redesigns the SQLite database schema to allow category selection when creating a new event. The events are now stored under *category\_id*, and the user can assign events to a category such as work or school. I also created a new Insights screen to show the most used category for that specific user and functions correctly after addressing some issues caused by mismatched data.Although searching by keyword and sorting by date are not fully integrated yet, I started creating the foundation with the templates created.

One of the biggest challenges while working on this enhancement was ensuring that all the save events including the favorite ones were saved even after the user logs out of the application. I had issues where events would appear in the grid temporarily but disappear after closing the app. This turned out to be caused by incomplete or incorrect data being passed when saving events. I fixed this by ensuring the *category\_id* and username were correctly passed and stored during event creation.

Another issue I was dealing with was with the Insights screen, it was always showing the top category as “Work”, even when I added more events under “School.” I was able to track down the issue inside the *databasehelper* java file, so the app accurately calculates and displays the correct category.

My focus throughout this development has been on functionality first. I’ve worked to ensure the app behaves correctly and stores accurate data before putting time into design or polish. As I continue making progress and locking in the core features, I plan to shift more attention to improving the user interface, making things more intuitive, and diving deeper into layout and styling.