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CS-499

# Enhancement Three

## Artifact

The artifact I will be using if the event tracking app from the cs-360 mobile architecture and design class. This project was created in February of 2024 and the main purpose of the app was to be able to keep track of events in one place. The artifact uses a database to keep all event data persistent on the same device. The app also has all crud functionalities where a user can create, edit, and delete an event as they choose.

## Justification

The main reason for choosing this artifact is to further improve my mobile design skills and I also have an interest in mobile app design. The enhancements I have made regarding Databases are as follows:

* Switching from SQLite to a Room database
* Creating a persistent database that will work after the app is closed
* Applying all CRUD functions that work along with the search feature

The original app uses an SQLite database that takes a lot of coding and is not as flexible as a Room database. Room is much more flexible with no need for rough queries and allows viewing of stored data and values. The database of the original app was not persistent meaning if a user forces the app to close then all data was lost, now the enhancement creates a persistent database that will keep the database stored on the device allowing the user to view their information even after the app is force closed. The final enhancement applies all CRUD functionalities and has them working alongside the search feature, any added data will be able to be searched for even after the app is closed and opened again.

## Objective and Reflection

One objective I was able to accomplish was Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts. In this case I have designed the app in a way that is visually easy to understand and anyone using the app should not have a hard time understanding how the app functions. While implementing the Room database I did have a little trouble in the setup phase. Room is new to me, and I did not know what dependencies I would need to include to make Room work. After some research and help online through videos I was able to understand what steps I needed to take and how to get Room database up and running.