Report CA1 - SQLite Database CRUD

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# Completed functionality:

**From basic requirements (all complete):**

Create, read, update and delete data in a SQLite Database.

A variety of different data input types (String, String?, Date, Timestamp)

Uses fragments for UI.

Uses android navigation components.

ViewModel containing LiveData ✓

At least one entity class ✓

Type converters ✓

DAO for each entity ✓

Room Database with a table for each entity ✓

Code commented thoroughly ✓

**Other completed functionality:**

Visibility icon when choosing password, censors’ text on button click, implemented without a library.

Automatically generate a secure password, that consists of random letters, symbols, and numbers, on a button click. Using SecureRandom.

Glide library brings in images from the web to represent the website listed in the accounts.

Additional functionality to bring the icons through fragments without storing them in the database.

Animated loading placeholders while the icons are being downloaded and cached.

Dialog box when trying to delete all entries which prevents a user from accidentally deleting all the data.

GifDrawable library used to allow for animated gifs to be used inside the fragment.

Additional quality of life features such as submit button, add sample data, scrollview with embedded constraint layout etc.

Data persistence in edit/view mode when rotating screen.

<https://github.com/JonathanBerkeley/powa>

Github has many commits with messages so you can follow progress