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Working Prototype Known Problems Report

Known Bugs

1. Duplicate entries: When we set an alarm in MainActivity via the time picker, our application stores duplicate entries. The database assumes that the user is only setting one alarm per day; however, upon testing this it resulted in duplicate entries because our application automatically sets the date to the current date and does not allow for users to manually input the date. This allows for a failure because when testing the application, there are multiple alarms made in one day and updates the database based on date thus resulting in all of the entries made on that day update to the most recent data. In order to fix this, we would need to not base our database on being able to set one alarm per day and instead focus on unique indexes for each alarm; however, it made sense to use the date as a means of changing the data as it is assumed the user only uses the application once per day to track their sleep at night.
2. Certain entries will produce incorrect data for the statistics section at the bottom of the sleep history activity when we open that activity. We have not done sufficient testing to know whether or not the statistics are correct for large data sets. To fix this, we would need to thoroughly run our application using a bigger data set in order to potentially fix any issues that we may come across. As this is not part of the minimum viable product, we prioritized testing other features.
3. Alarm cancel crash: When we do not have an alarm set to go off, and we click the "cancel alarm button" in MainActivity, then the application will crash, but the user will be able to reopen it. To fix this, we would probably just have to create an if statement to handle this edge case. Since we cancel the alarm by the intent, we should have a case that we only call the cancel() method if the database has entries in it. Else, we do nothing.
4. Multiple alarms in the same day: If you schedule two alarms during the same day, it will show up in the AnyChart graph as one data item, since each column in the graph represents one day. To fix this, we would still plot the graph by day, but possibly make use of a unique identifier in the database to differentiate between alarms that get set in the same day. We already have a unique index for each alarm in the database, so we could possibly use that.