**THIS IS JUST FOR BRAINSTORMING. PLEASE ADD WHATEVER YOU CAN AND ISAIAS WILL CREATE THE DATABASE ONCE COMPLETED.**

Database

Insulin:

ID (Makes it easier for people to find the 10th time they used the pump. Etc.)

* Not sure this is needed. since we could make date + time a primary key. However, if we do want to add it, let’s make sure it’s large enough. If we take 10 measurements a day for 10 years that gives us 36500 data points, so I would suggest giving the ID around 6 digits, just to be safe.

DATETAKEN

TIMETAKEN

BLOODSUGAR

INSULININJ

* Is that the amount of insulin injected?

INSULINRES

* How much insulin is left in the pump, may just be an interesting metric to keep track of.

DAILY MAX/MIN

* We might want to keep track of this in the database to make it easily accessible.

INCIDENTS

* This could just be a Boolean value keeping track of whether blood sugar has reached critical levels that day (not sure if this is needed because the pump should prevent that from happening, but I thought I’d put it up for discussion)
* Could also be a numerical value counting the number of incidents (counter)

Melanie’s Proposals –Updated: October 17th, 2017 @ 2 p.m.

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| --- |
| **LEGEND** |
| **TABLE NAME**  columnName: datatype() |

**SENSOR**

bloodSugar: int(11)

**PUMP**

insulinDose: int(11)

insulinDoseMax: int(11)

insulinDoseMin: int(11)

**RESEVOIR**

insulinLevel: int(30)

insulinLevelLow: boolean

**POWER SUPPLY**

batteryLevel: int(11)

batteryLevelLow: boolean

power: boolean

**DIABETIC USER**

firstName: varchar(30)

lastName: varchar(30)

bloodType : varchar(30)

**LOG**

dateTaken : date()

timeTaken : time()

incidentsPerDay : int(60)