Mental Health App Milestone 2

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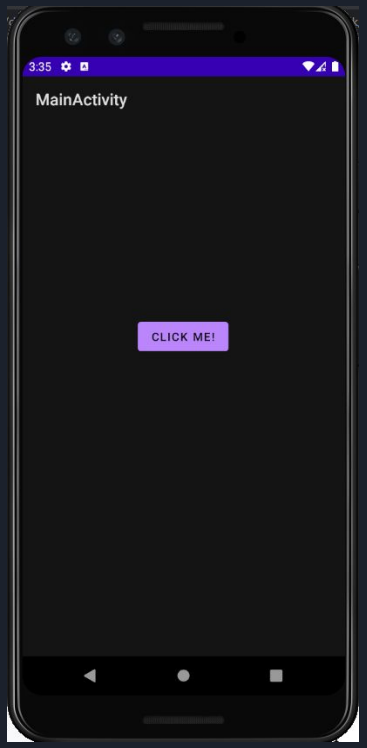
Overview of Milestone 2

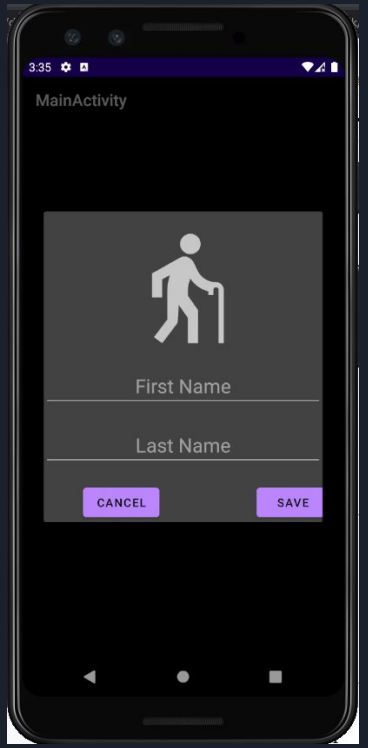
Task	Progress	Josh	Phi	Daniel	Todo
1. Implement, test, and demo a basic Android UI.	100%	50%	25%	25%	None
2. Implement, test, and demo an interactive pop-up with an input field.	100%	25%	25%	50%	None
3. Implement, test, and demo saving inputted information into an in-app database.	100%	33%	33%	33%	None
4. Implement, test, and demo an in-app database structured around a calendar.	100%	25%	50%	25%	None
5. Implement, test, and demo retrieving information from the database.	70%	25%	20%	25%	We still need to write actual queries to obtain information through SQL and not indirectly through the handler. This is incorporated into Milestone 3.

Task 1: Implement, test, and demo basic Android UI and Task 2: Implement, test and demo a pop-up with a text field.

Button to generate pop up

Text field in pop up saves input to database





Task 3 / 4: Implement and test an in app database structured around a calendar.

```
PRAGMA foreign_keys = ON;
CREATE TABLE averagefood (
 Average_Fruits REAL,
 Average_Vegetables REAL,
 Average_Sugar REAL,
 Year_Num INTEGER,
 Month_Num INTEGER DEFAULT -1,
 FOREIGN KEY(Year_Num) REFERENCES yeartable(Year_Num),
 PRIMARY KEY(Year_Num, Month_Num));
CREATE TABLE daytable (
 Day_Num INTEGER,
 Year_Num INTEGER,
 Month_Num INTEGER,
 Mood INTEGER,
 Fruit INTEGER,
 Vegetable INTEGER,
 Sugar INTEGER,
 FOREIGN KEY (Year_Num) REFERENCES yeartable (Year_Num),
 FOREIGN KEY (Month_Num) REFERENCES monthtable (Month_Num),
 PRIMARY KEY(Day_Num, Month_Num, Year_Num));
CREATE TABLE monthtable (
 Month_Num INTEGER,
 Av_Exercise REAL,
 Av_Mood REAL,
 Year_Num INTEGER,
 FOREIGN KEY (Year_Num) REFERENCES yeartable (Year_Num),
 PRIMARY KEY (Month_Num, Year_Num));
CREATE TABLE yeartable (
 Year_Num INTEGER,
 Av_Exercise REAL,
 Av_Mood REAL,
 PRIMARY KEY(Year_Num)); (edited)
```

```
String DAYTABLE = "CREATE TABLE " +
        Constants.TABLE_NAME_DAY + " (" +
        "Day_Num STRING, " +
        "Year_Num INTEGER, " +
        "Month_Num INTEGER, " +
        "Mood INTEGER, " +
        "Fruit INTEGER, " +
        "Vegetable INTEGER, " +
        "Sugar INTEGER, " +
        "PRIMARY KEY(Day_Num));";
        // will use these 3 when we fully implement the database - Josh
        //"FOREIGN KEY (Year_Num) REFERENCES YEARTABLE (Year_Num), " +
        //"FOREIGN KEY (Month_Num) REFERENCES MONTHTABLE (Month_Num), " +
        //"PRIMARY KEY(Day_Num, Month_Num, Year_Num));";
```

Task 5: Implement, test, and demo retrieving information from the database

Making the SQLite handlers took more time than expected

Partially moved to next milestone

Did make handler to extract information but currently does so directly and not through SELECT queries

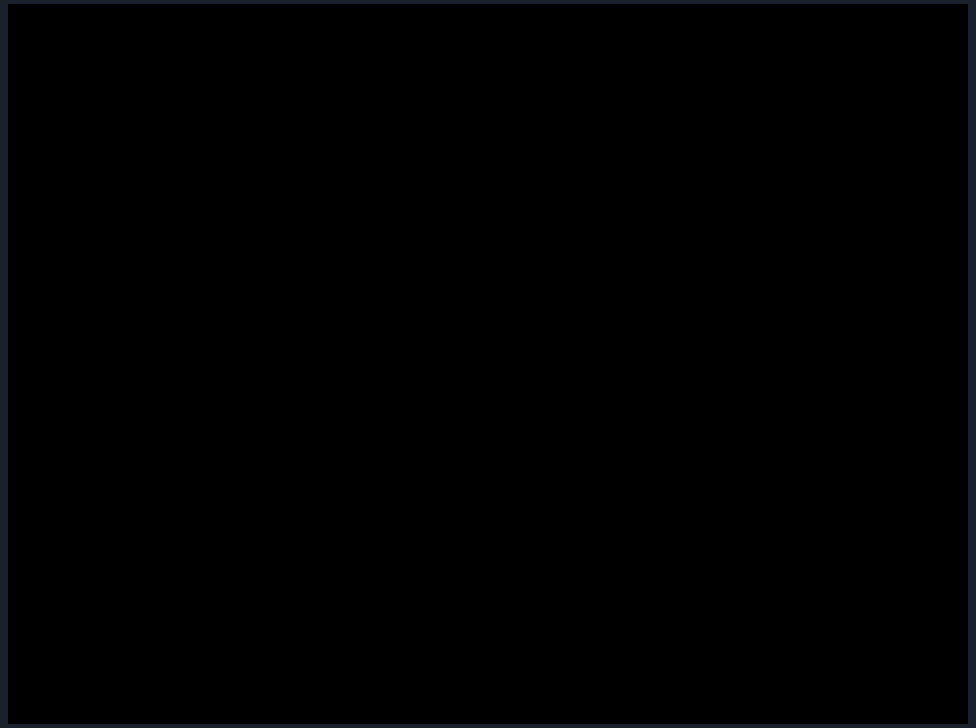
Sample Potential Query:

```
SELECT Day_Num, Month_Num, Year_Num FROM daytable
INNER JOIN monthtable ON daytable.Month_Num=monthtable.Month_Num
WHERE monthtable.Av_Mood>5 (edited)
```

Discussion of Team Contribution

- Joshua Breininger worked in progress report, wrote the sqlite logic and database as well as helped program the database handling in android/java
- Daniel Bornemann worked in UI implementation and the database handling
- Phi Duong worked on UI implementation and the database handling

Video Demo



Plans for Milestone 3

- Create a UI extremely similar to planned UI with dummy buttons and pop ups to represent our end goal
- Create functionality for food, exercise and mood pop ups
- Prepare for notifications by testing queries
- Produce a pop up graph that corresponds to the mood
- Create settings menu