

Progress Report

- Increment 3 -

Group # 23

1) Team Members

Cooper Hauck - ceh16b - cooperhauck

Connor Hausmann - crh15- connorshaus

Sarah Jiwani - sj16d - jiwanicodez

Joshua John - jj16d - jj16d

2) Project Title and Description

Title: Mood Booster

Description: This application starts up with a mood test that quizzes the user to determine their mood/mental state. The results are analyzed and the app follows up with options for the user to access. Options/features will be quotes (Words of Wisdom), suggestions (Food for Thought), or words of encouragement (The Supportive Buddy). There might also be a complex social feature built in for users of the application to communicate with other users who need to talk/vent - names are anonymous

3) Accomplishments and overall project status during this increment

During this increment we changed how the questionnaire was store user scores to make it easier for MyHealth access the data. MyHealth now stores the accurate user scores, has a title for the line series, has a larger range for the y value, and has both the x-axis and y-axis labeled. My health also has a key now to help the user determine which of the four ranges their score fell under.

The chat system was also revamped so that users are given a display name (user1, user2, etc.) and the messages are displayed in proper order.

Various other activities were updated, additional pictures and quotes were added to the Motivation activity and resources were added to the About Us activity as well.

At this time, our project is considered complete.

4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment

Challenges from Increment 3

Getting titles and axis labels on the graph was not as trivial as we previously thought.

*To get accurate user scores displayed required refactoring of our realtime database node structure which was something that took a long time to figure out.
We had trouble adding display names for users in the chat, however this was fixed in this increment.*

Challenges from Increment 2

Had some troubles with linking Unique users to the Firebase real time database

We have decided as a group instead of doing a private chat feature between two users anonymously, we instead are going to do an anonymous chat forum where anyone can come in and anonymously post and talk to each other. Administrators will be given the power to police the chat, some powers they will have are deleting messages in the chat and banning users that do not follow the chat rules. Some other features we can implement are if a user uses a suicidal or potentially harmful phrases like "Im going to kill myself" we can have Firebase scan the chat and automatically email the user helpful information and hotline numbers. One of the challenges currently in the chat form is displaying messages in the correct order along with displaying an anonymous name next to each message.

Had issues with over writing data in the questionnaire and the chat form databases

Getting the GraphView library imported in the project was challenging due to having to sync the gradle.

There were challenges fixed compatibility bugs between different versions of the SDK, graphview, and firebase libraries.

Challenges from increment 1

Understanding how GitHub worked and conversing so nobody overwrote other work was also a challenge.

We need to have a better understanding on what type of questions we should ask so that we can give a more proper health evaluation.

Connecting to a real-time database for storing user messages as well as authenticating the user's login credentials was difficult.

Adding in resources for the user to access outside of the app if they feel they need to access external resources.

Linking the database to the score given after the quiz is taken so that we can store the numerical value in a grid still also has to be done.

We would also like to add the ability for an administrator to access the reports of the application users

Give limited access to non-registered members.

5) Team Member Contribution for this increment

Please list each individual member and their contributions to each of the deliverables in this increment (be as detailed as possible). In other words, describe the contribution of each team member to:

a) progress report

- *Project title and description section - Connor*
- *Accomplishments/project status - Sarah, Joshua, Cooper, Connor*

- *The scopes and challenges - Connor, Cooper, Sarah, Joshua*
- *Team member contribution - Sarah, Joshua, Cooper, Connor*
- *Plans for next increment - Connor, Cooper, Joshua*

b) requirements and design document

- *Overview - Sarah, Connor, Cooper, Joshua*
- *Functional Requirements - Sarah, Connor, Cooper, Joshua*
- *Non-functional Requirements - Sarah, Connor, Cooper, Joshua*
- *Case diagrams - Sarah, Connor, Cooper, Joshua*

c) implementation & testing document

- *Programming languages/technologies used - Connor Hausmann*
- *Execution-based functional testing - Sarah Jiwani*
- *Execution-based non-functional testing - Cooper Hauck*
- *Non-execution-based testing - Joshua John*

d) source code (be detailed about **which parts of the system each team member contributed to and **how**)**

- *Main Menu - Connor, full code*
- *Login page/My Profile - Connor, full code*
- *Guest Additions - Connor, Full Code*
- *Chat Feature - Cooper, full code*
- *Questionnaire Feature - Sarah, full code*
- *Analytics Feature - Josh, full code*
- *Motivational Feature - Connor, full code*
- *About Us page - Josh (company description), Sarah (disclaimer), Connor (Resources)*

e) video

- *None*

6) Plans for the next increment

We do not plan on having another increment following this one. However if we were to continue developing this app it is likely we would host the images and quotes on a server as opposed to having them stored locally on every user's device.

7) Link to video

Increment 1

<https://youtu.be/N3gwK1e1mX8>

Increment 2

<https://youtu.be/WmyoiIGY7Tg>