Progress Report
- Increment 2 -
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**

   At this point, we are approximately ⅔ of the way through this project. During this increment of our project, our group was able to expand on activities previously created. A guest user was added so that the app can be used without registering for an account. This user, however, has very limited access in comparison to someone who has created an account. The survey was been rewritten with proper questions and it now supports a grading system which is being incorporated into the MyHealth activity. On top of that, the MyHealth activity now produces a graph based on trends in the user's quiz scores over time. The Chat feature has been updated to fully connect to the Firebase realtime database. For each Unique user the Firebase real time database creates a child node under the messages tree with the Unique user id as the tag so that messages can be distinguished between users. The ability to store multiple messages has also been implemented. The chat feature is being changed to a chat form.

4) Challenges, changes in the plan and scope of the project and things that went wrong during 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 potentaily harmful phrases like "Im going to kill myself" we can have Firebase scan the chat and automatically email the user helpful imformation 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 videos 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*
- *The scopes and challenges - Connor, Cooper, Sarah, Joshua*

■ *Team member contribution - Sarah, Joshua*
■ *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)*
e) **video**
■ *Sarah, Cooper, Connor, Joshua*

6) **Plans for the next increment**

Before the next increment is over, we wish to have another user level, admin, who has the power to monitor the chat and ban or send resources to users who pose a threat to themselves or others. Administrators will also have the ability to view the health information of each user. The scale interval of the graph in My Health will be set to 5, with the maximum score being 50. My profile will be set up correctly to hold user data such as their full name.

7) **Link to video**

Increment 1
https://youtu.be/N3gwK1e1mX8

Increment 2
https://youtu.be/WmyoiIGY7Tg