# Submitted to: Mr. Fulk

# Project Manager: Niranjan Mathirajan

Date: May 1, 2021

Project Overview: The purpose of Fulkscord is to provide Lynbrook APCS students with an Android chatting application in honor of Bradley S. Fulk, a Computer Science Teacher and DECA Advisor at Lynbrook High School, 1280 Johnson Avenue, San Jose, CA 95129. The app will allow our users to register and maintain permanent conversations with their peers. We plan on implementing data encryption along with calling capabilities through Web-RTC. This way, fellow alumni and current APCS students can reach out to Mr. Fulk when in need.

Project Team

Niranjan Mathirajan: Project manager. Oversees the entire development of Fulkscord and assists in the development of Fulkscords’ UI components. He will tackle the conundrum of displaying messages from Firebase into the UI. This is planned to be done by holding the Firebase messages in a Java stack, and popping these messages accordingly to display them.

Kaustubh Khulbe: Responsible for the overall integration of Firebase and is also responsible for parts of the logic for each Android activity. Kaustubh will ensure that our databases access rules are secure and will also aim to resolve the issue of reading and writing data from our database by leveraging the versatility of Java.

Leo Xu: Leo will developing XML UI components for Fulkscord and will focus the majority of his efforts into passing data from one activity to the next using Java Intents. In general, he will ensure that the UI elements will flow smoothly. He is responsible for the general integration of the app. He will also work on the logic for validating user inputs and adding event listeners to UI elements.

Challenges: We could have an immense amount of trouble with implementing Firebase into our application and figuring out which emulators would break Fulkscord. Later when we load the data from Firebase we could have issues displaying in in our UI.

# Major Tasks and Schedule

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| Task | When | Responsible |
| Finish all UI elements | May 7, 2021 | Leo, Niranjan |
| Implement Successful User Logins and Signups | May 7, 2021 | Kaustubh |
| Develop the Project Classes along with XML Components | May 14, 2021 | Kaustubh, Leo, Niranjan |
| QA Tests | May 21, 2021 | Kaustubh, Leo, Niranjan |
| If Time Allows it: Web-RTC / Websocket integrations with Fulkscord | Calling Capabilities | May 28, 2021 | Kaustubh, Leo, Niranjan |
| Final QA Tests | June 3, 2021 | Kaustubh, Leo, Niranjan |