# Proposal for Orbital 2020

**Team Name**
Albitor

**Proposed Level of Achievement**
Gemini

**Motivation**
After the outbreak of COVID-19, NUS requires students to declare their temperatures twice a day. However, students can easily forget about it. Besides, as NUS students and staffs have to log in to different pages to keep track of each other's status, it appears to be an inconvenient process.

Moreover, being informative is very important to stay healthy and vigilant. However, circulars published by NUS and Dean of Student updates are again on other pages. It is of utmost urgency that students and staff be informed of the latest news about the disease and protect themselves. Since it is tedious to gather information from different sources, this application will help students do that.

Last but not least, when students have minor confusion such as whether they should wear masks while attending lectures or whether a classmate sneezing will spread the virus to the whole class, they will have the need to consult the professionals. Since going to University Health Center (UHC) takes time, chatting with the doctor and receiving instant replies save both the student's and doctor's time; the student's doubts are clarified while the doctor is able to consult more patients.

Therefore, all the administrative issues related to temperature-taking and consulting a doctor should be in one place for the ease of users' access.

**Aim**
We hope to build a centralised Android application for NUS students and staffs to fight against COVID-19 which includes more interactive features related to the temperature-taking issues, NUS updates and instant messaging platform (ie. Telegram) between students and UHC doctors.

**User Stories**
1. As a student who is required to take temperature twice a day, I am reminded and declare my temperature with a photo of it with just a few taps.
2. As a student who wants to be informed about the latest updates from NUS, I can check the news quickly.
3. As a student who worries about my symptoms and not sure if I have been infected by the virus, I am able to chat with a UHC doctor and consult about my case.
4. As a student who shows symptoms, I can quickly look up the emergency contact to talk to the authorities.
5. As a student who wants to go overseas, I can update my intent quickly.
6. As a student who cares about my classmates' health, I am able to see if they have taken their temperature and remind them if they have not.

7. As an instructor who wants to ensure the safety environment of the classroom, I am able to check if every student in my class has taken temperature and upload the classroom photo in short time.
8. As an administrator who needs to keep track of the disease situation on campus, I am able to identify if any students or staffs forget to take their temperature or show any symptoms and apply the preset measures to them.
9. As an administrator who wants to keep everyone informed about NUS's safety measures, I can post updates easily.

**Features and Timeline**
1. Help students declare their temperature via a centralized mobile app instead of having to log in to different webpages.
2. Push notification about declaring temperature on phone on specific time of the day if the student has not declared his or her temperature.
3. Have in-app photo taking of the thermometer, automatically include timestamps to it and upload to an online storage (ie. Google Drive).
4. Travel declaration.
5. Can check if other classmates and the instructor have declared their temperatures through the application instead of having to log in another webpage on Luminus.
6. Include emergency contact in case students develop symptoms of the virus and necessary information regarding the disease.
7. Have in-app chat with UHC healthcare personnel if necessary.
8. Instant update from Dean of Student or NUS on current situation.

*Features to be completed by the mid of June:*
1. Temperature declaration
2. Taking and uploading photos
3. Uploading contents from admins
4. Travel declaration

*Features to be completed by the mid of July:*
1. Checking peers declaration
2. In-app messaging and emergency contacts
3. Pushing reminding notifications

**Tech Stack**
1. Android Studio
2. Firebase
3. Telegram API