Idea Proposal

**Team 5**

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1. **What is/are the problem/s we want to solve? Why is it important?**

A pandemic of Covid-19 broke out in early 2020, and now it is all around the world. Now, covid has become part of people’s daily, people may be asked to provide different kinds of health certificates, such as vaccination certificates or nucleic acid test reports, when they go to different places or institutions. And these files are usually scattered in users’ albums or memos in a disorganized way, we hope this app can help users to organize all kinds of files about covid. In addition, this app also provides real-time case data of covid for around the world, and the one-stop data access can help people to better plan their travel and arrange vaccination measures. It is important to keep track of the covid, and it is necessary to make it easy. This will be an app for everything important about covid.

1. **Who are the users we are targeting?**

For all those whose lives have been affected by the covid, especially for those living in modern cities and those with daily travel needs. For people who want to track covid in a one-stop app and those who might be frequently asked to provide health certificates in their lives.

1. **How will this app solve the tackled problem/s?**

This application will address the problem of fragmented and inaccessible real-time data on Covid-19 through data obtained from the CDC, WHO, and other official platforms. Our application will collect data on Covid-19 patients from all official platforms and integrate the world pandemic data. When users use the app, they can store vaccine certificates, check expiration dates of covid tests, schedule tests, and view the local outbreak status in a timely manner. Instead of searching on each website, we plan to develop an application that will integrate all outbreak issues.

1. **What are the major features of the app?**

The app will have functions such as storing vaccination certificates, reserving covid tests, covid test reports expiration dates, global epidemic facts, related news navigation, and local epidemic policy inquiries. Users can upload their vaccination certificates, recent covid test reports, and inquire about nearby covid testing sites or vaccination sites, as well as jump to relevant news via hyperlinks to keep up with information. The application interface will present a board model with an emergency call option in case the patient can reach the hospital in time, and provide warm tips on Covid-19 prevention as well as methods.

1. **What similar apps exist on the market? ( names, screenshots, links, descriptions and how different they are from what we want to do)**

**COVID-19Tracker:**

<https://apps.apple.com/us/app/healthlynked-covid-19-tracker/id1500575377>

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This app contains one of the major functions that we would like to build, which is the showcase of cases worldwide. However, The COVID-19 MAP interface is not friendly as shown above. And the data has not been organized the way we want it to be either. We want to have a visual and concise data representation of the information of an epidemic in a certain place, not only to tell people about the severity of the pandemic but also to inform their travel.

**CDC:**

https://apps.apple.com/us/app/cdc/id487847188

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The CDC app includes self-checker, newsroom, and case data as shown above. It is an official app from CDC. However, this is more like a platform that users can read things posted by CDC. In our opinion, most people may not be interested in most of the news, but when they need to travel to another place, they might check the travel advice from CDC. So, we want to build our app more simplicity. Only the sections that people are most likely to focus on in their daily lives will be included, but suggested modules like Self-Checker will remain in the menu options, but in a more user-friendly way.

**COVID-19!:**

https://apps.apple.com/us/app/covid-19/id1504906590

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This app focuses on statistics, which is very user-friendly for people who want the data. And it also includes the new and map section. So far this is very close to what we want. However, we hope our app can be more helpful for people’s daily, which required some new sections, such as a local folder that can help to store all the user’s documents about covid. Users will be able to store their proof of vaccination, proof of nucleic acid testing, and passes to some specific places. This way everything about covid can be found here, and the app will automatically categorize their expiration date. Users don’t need to store different kinds of documents scattered in their phone albums or memos, and for people who often need to provide all kinds of different certificates, we think such a feature can provide great convenience.

**NYC COVID SAFE:**

https://apps.apple.com/us/app/nyc-covid-safe/id1565213506

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This app helps to store and present the documentation of covid, which is one of the functions that we would like to build for our app. However, this app doesn’t provide any real-time information about covid.

**Covid SafePass:**

https://apps.apple.com/us/app/covid-safepass/id1508580159

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This app focuses on helping people get their covid test and store the results, and a build-in Google Map component can help people find the location for testing covid. We would like to build this function for advanced features. Our app should only provide some of the most helpful tools for people’s daily, as a one-stop app for covid.

1. **How is our app unique?**

Our application is unique in that it integrates real-time data on the Covid-19  with major vaccination sites and nucleic acid testing sites, which will help users to save time searching through various websites. For example, in the past, users had to search for Covid testing on a separate website, and need to learn about local Covid-19  data on another website.  Such an application will be able to visually present and provide all the information to the user and will be able to do multiple things about the Covid-19 in one app. Convenience and ease of use will be the distinguishing features of this application

1. **What are the risks associated with the development of this app? Why wouldn’t it be delivered completely (scope), on time and on budget?**

By using the local data storage methods, the store function should be most promising to achieve as planned. However, the real-time data and its structure might be difficult. So far：

* + - 1. To find the sources of networked data acquisition, and check if it is available for the app to use. （Time）
      2. Decide a clear and friendly UI, and how the data would be display. (Time for quality improvement)
      3. For advance, we want to combine the data with a map, which might require new methods that we need to learn, and the intellectual property of the map might cost extra budget. (Budget & Time & scope)
      4. The group members have different levels of programming and communication and will spend more time on programming improvement and communication. (Time)

1. **What is our goal with this project?**

There are three main reasons for developing this project. The first reason is that most people in the United States can help understand the situation of the epidemic locally or in other regions. The second reason is that our team hopes that the application can significantly control the Covid-19 condition in the United States through this procedure. The program can give the user a reminder, try not to go to the risky area. The third reason is that we want our program to have long-term continuity rather than simple semester homework. In the future, we hope to add some reminder functions, such as what kind of virus reminders are prone to virus outbreaks in a particular season or popularize the harm of viruses, and so on.

**SDG's: 3-Good Health and Well-being; 11-Sustainable Cities and Communities**