

Since moving to Philadelphia, we feel that it's much harder to "feel how the weather is outside" when you're on the 9th floor of a college dorm. Our idea is to create an app that syncs our classes and a weather API and sends you alerts about weather conditions before and after your classes. This could be very useful on days when you go to your 2-hour class and it's fine outside, then when you leave it's pouring. The app will include tips such as: "Bring gloves to class, it will get cold around X time", "Don't forget your umbrella! It's scheduled to rain around X time", or "It's a hot day and the weather is clear, shorts recommended for today!". One of us had this idea when they had to walk home in the pouring rain one day. If only he had remembered to bring an umbrella!

We believe that if there is a large demand for the app, we could include embedded advertisements and get money from companies that advertise on our app. This app will cost us nothing but time to develop so any money made from it is profit already. There are many benefits people could derive from our product, making it worth having minimal ads in the app. Also, since the app requires a one-time setup then you never really have to open it again, the user will not be bothered if advertisements are included in the app.

The biggest challenge of this project is learning how to use the weather and calendar API, along with learning how to use Android Studio, as we have not used it in a while. This will require us to do some research and possibly watch some videos on how Android Studio works as it is quite confusing. Another possible challenge is learning how to integrate GitLab into Android Studio. As mentioned before, this app SHOULD not cost us anything. However, if the free APIs we use are not sufficient, we may be required to pay a fee to use them. This would set us back a little and force us to integrate more ads or even make the app cost money.

Our major tasks include: getting the app to successfully sync the calendar and weather and send notifications reminding the user about the weather. Stretch goals include: getting advertisements integrated successfully and creating a nice UI for the app that allows you to view all the information in the app as well as by notifications. This app could definitely be made into an iOS app, however, Apple has much more limitations on app development than Android.

In the end, we plan to provide users with a pleasant and easily understood app that enables them to more easily access information about the weather without the need to manually check an app and scroll to the times their classes are. This app will sync your calendar app (through Google's calendar API) with a weather API and send notifications displaying information regarding weather conditions during your classes or other events.