# **BackSmashers** Crowd Alert

# **Project**



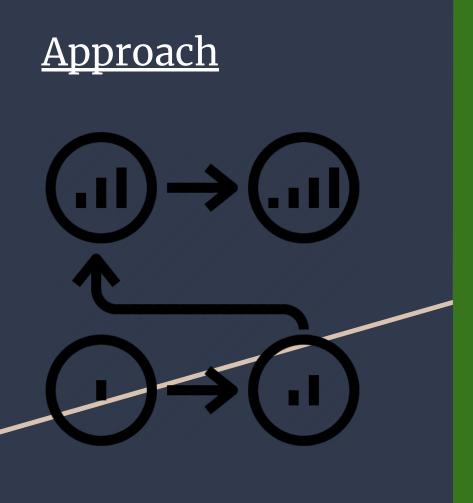
#### By Lucas Mah, Joachim Santiago and Lily Samoyan



## <u>Problem</u>



Our group wanted to make a crowd alert app that can detect large groups of people which would support the Center of Disease Control and Prevention guidelines. We added the ability to upload a photo or take a photo and decide whether a crowd was detected or not based on whether the tags detected a key word such as "people". People who ignore CDC guidelines motivated us to create this project because they were adding fuel onto the fire by spreading the virus at a much more rapid pace.



Before starting our app, our group held zoom calls to brainstorm and come up with ideas on how we would go about working on our project. We decided that we could have both and english and spanish version for our app to appeal to a larger audience. As we worked on the coding blocks of our app, we eventually got stuck on what "tags" meant and how to utilize it. We then scheduled a zoom call with Professor Bulusu and a T.A to sort it out.

### <u>Tasks</u>



We divided up the tasks in our group. Lily did most of the coding parts of the app to complete the required functions of the app like the crowd alert function after uploading/taking a photo and touched up the translations. Joachim did most of the UI aspects of the app and translated the english speech to spanish, while Lucas created the presentation part of the project and also assisted in brainstorming ideas.

### <u>Heart-Humanity</u>



We learned in more detail about what the different code blocks meant. We experimented throughout the process to see what works which made us more comfortable on Thunkable in general. For example, we learned how to use the image recognizer function in Thunkable.

Finally, we learned how important it is to communicate among the group members and instructors for assistance and new ideas. The people that would benefit from this app is anyone who is unsure whether an image/photo is considered to be a crowd or not which will help protect them against COVID-19 more by mitigating the spread/contact of it.

#### Future use

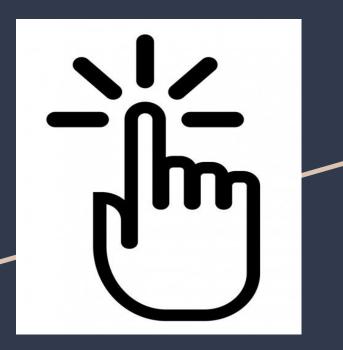


Although this app was initially designed in response to the COVID-19 pandemic, our app could still have use long past when the vaccine is introduced.

Not everyone will get the vaccine when it is introduced and will still choose to follow social distancing guidelines. So our app could still be useful then.

Our app could also be repurposed for identifying other entities in pictures while still maintaining its bi-lingual feature

## <u>Project Details</u>



<u>Project Assignment:</u> Option 1: Crowd Alert... Crowds are dangerous right now! We need an app to detect a large group of people.

<u>Project Statement:</u> Many people have been gathering in large groups regardless of the current pandemic. This app will be used to encourage limited gatherings and mitigate the spread of COVID. It will start keeping people in society safe from those who may have gathered in groups without them knowing, therefore minimizing the infection rate of COVID-19. This can be used in many locations, and the purpose is to identify people in groups in multiple places.

#### Thunkable Link:

https://x.thunkable.com/copy/fff30739b99f8ce2722e 20482939b4d9

