

10th

DecLine

Sneha Sunder

Fairfield Warde High School

Businesses, Community, Vulnerable Populations

What problems are you trying to solve?

With recent social distancing guidelines, most grocery stores have implemented a system where customers wait in line outside the store so that only a few customers are inside the store at a time. In my hometown, these lines can be very long, and people waste a lot of time in line. This is especially bad for vulnerable populations who want to spend as little time as possible in public during these uncertain times, yet oftentimes are forced to spend hours in line at stores. This problem will continue to increase as more businesses reopen but strive to limit the number of customers at a time. The problem I am trying to solve is that lines outside stores are excessively long.

What inspired you to address this problem?

When one of my parents goes grocery shopping, they often take hours to come home because of how long the lines are. My mom has shown me videos of the lines at grocery stores, and I realized that this was especially a problem for vulnerable populations. While there are already a lot of guidelines in place to ensure people's safety, I think that if the community works together and utilizes computing technology, then we can help spread the crowd at grocery stores over longer periods of time and protect our grocery workers and vulnerable populations.

Describe your idea and functionality:

DecLine is an app that will allow users to submit an estimate of how many people are in line outside a store. The app will average out the results from many different users, factoring in when each report was submitted, to calculate how long the line is at a store at any point in the day. Over time, the app will analyze trends in how the crowd changes throughout the day. It will suggest what time to go to certain stores in order to minimize crowds. Users will be able to compare lines at different stores in real-time through the app. This app will also include other retail stores as Connecticut continues to reopen. App users can also report shortages of items at stores so people do not go to a store only to find that what they wanted is unavailable. The widespread use of DecLine will help workers stay organized and keep people safe. During this uncertain time, it is important that we communicate through such an app so that shopping is purposeful and efficient. See the video for more info.

Team Members:

Links:

<https://youtu.be/aRngXDufVqc>

Food Taxi

Pranav Ramesh

South Windsor High School

Businesses, Community, Health, Vulnerable Populations

What problems are you trying to solve?

Often, restaurants have extra food that isn't going to customers, and is going to be discarded. This can be a waste of food that could help someone. In addition, especially during these troubling times, businesses have closed and the workers in restaurants are unable to work because there is little to no one eating from the restaurants. Aside from the restaurants that are facing these troubles, housing is critical, especially for those who rely on the homeless shelters for sustenance. These shelters are starting to increase in the amount of people, meaning that there are more people to feed.

This app attempts to solve the problems of both sides at once by coordinating between restaurants and homeless shelters so restaurants can make food for the homeless shelters. Restaurants can either send their existing food that has built up in their storage, or they can make food, and offer the food either for price or pro bono to the shelters. This helps the restaurants because it gives them more customers, increasing the income for a restaurant. In addition, the workers get to work, allowing them to be paid. This also helps the shelters because it means that their increasing numbers are getting access to a sufficient amount of food.

To deliver the food, the app would request that the restaurant send someone to deliver the food to the shelter. If the restaurant chooses not to, then the app would send out the request to registered volunteers within a 10-mile radius, and a volunteer can choose to accept the request to deliver the food.

What inspired you to address this problem?

I was inspired to start this project after reaching out to various local restaurants and finding that they were having trouble with their business because their workers needed to work but they aren't receiving enough customers. In addition, I found that with the increasing conflict brought by COVID-19, homeless shelters are growing in numbers, and there are more people who are vulnerable to health-related and financial issues and aren't getting enough access to food. I wanted my app to be able to connect these two groups to benefit both while working to promote an important cause.

Describe your idea and functionality:

First, a restaurant would post what food they had available in their stores that they were ready to donate. Shelters that are close by would receive this notification and could select which foods they would want to receive from the restaurants. The transaction would continue after the restaurant confirms the request. Next, the method of delivery is decided, where the restaurant decides whether they want to deliver to the shelter. If the restaurant declines, the role of delivery moves to the shelter, where they can decide whether they want to retrieve the food from the restaurant. If neither the shelter nor the restaurant wants to get the food to the shelter, the delivery option is presented to volunteers within a ten-mile radius. Within a few hours, if no volunteers want to deliver the food, the food goes back on the market for other shelters to select. If any of these three parties selects a delivery option, then the transaction is completed, and the food is delivered to the shelter.

Team Members:

Links:

https://drive.google.com/file/d/1DDme3_ox40RwCRU08PCd9zfk6D4dvGYx/view?usp=sharing

Go Corona Challenge Game

Vishal Saminathan

South Windsor High School

Community

What problems are you trying to solve?

The problem that is being addressed is the rapid spread of coronavirus all over the world. The possibilities of the virus being spread are when people have close contact in a crowded area, touching a material that is unclean and pressing their face with it, or coughing/sneezing in a public place will mix with the air. The number of cases in all countries is increased by a large amount day-by-day. According to BBC, a beach resort in the UK was occupied by an enormous amount of people, which made the owner of the resort furious and scared about the impact of this huge crowd. This incident pertains to the problem because it shows how people with close contact increase the spread of the virus in a crowded place like the beach. On the other hand, doctors are working hard to find a vaccine for ending this crisis. The important tips that people need to follow are social distancing, washing hands immediately, and wearing a mask when going outside. If the problem is not solved, it affects the economy of all countries, more people will be unemployed, scarcity of food, and the death of many people.

What inspired you to address this problem?

I was inspired to do this idea because the spread of coronavirus in all countries makes people afraid about their surrounding environment and how long it continues to spread. I also wanted to explain the tips to overcome this crucial situation and how dangerous will it be if these are not implemented. On TV, I saw a woman giving a press meet for advising the viewers to wash hands and stay safe. At last, she licks her finger and touches her face. If someone suffers from coronavirus, then the person would experience symptoms like rashes, heart and liver problems, and kidney damage. I saw a picture where a man's body is very lean as he has been affected by the virus. Thus, these are the problems that connect the main idea.

Describe your idea and functionality:

Pseudo Code:

When the tiny virus part collides the player,

Set the player's position to the initial position (x,y)

Decrease the player's energy level by setting the energy level variable to get global energy level minus 50

MIT App Inventor is a good platform to make android apps. In App Inventor, it has components like buttons, labels, image sprites, etc. For this idea, we can use labels to display the energy level of the player. At the beginning of the game, the player has an energy level of 1000. When the tiny virus part hits the player, subtract the energy level by 10 or 15 using blocks in the math section. Buttons are used to increase the energy level when the user clicks any of the buttons and adds 50 or 100 to it. This can also be done by the blocks in the math section. Image Sprites are used to drag the player and bullets will be released when the user touches the player image sprite. At last, the clock component is used to move the image sprites.

Team Members:

Links:

https://drive.google.com/file/d/1BdK2s8Nk_RvKiQ0wBonXGzEPtMG0XkYV/view

Vincent Kuchipudi

South Windsor High School

Community, Education, Health

What problems are you trying to solve?

Within this crisis, there isn't a clear educational standpoint of which is focusing society to better direct themselves towards COVID-19. In other words, we don't have clear knowledge whatsoever on what the Coronavirus can do to our bodies; according to a report, it states that 25-50% percent of the globe doesn't even know they have the virus (Healthline). Therefore without knowledge, people don't even know they've a certain risk to get this deadly virus; so as seen, this problem desperately needs to be addressed in order to reduce the risk. In addition, this problem's solution can lead to other solutions for other Coronavirus-related problems, such as what resources are needed to be protected from the virus; to conclude, this problem is essential in order for society to thrive.

What inspired you to address this problem?

When looking at this issue, I was looking at my community: the adolescents and teenagers. Though we might be locked down within this virus and might not get to interact with the rest of society, we instead take that to a positive and instead do our hobbies which aren't very helpful, such as playing video games or sleeping all day. Instead, what my society should be doing is learning about different ways we can help this virus; this can help relieve the global pandemic as unfortunately, we have limited amounts of adults while having millions of children. Therefore by creating this fun and interactive website, not only children enjoy it but they will also be inspired to look out for different ways to end this pandemic. This was also how the title was made because as our community sticks together, we can end this virus quickly. To conclude, my inspiration of this problem was very clear; the young generation must find ways to relieve the pain and stress from society when dealing with the Coronavirus.

Describe your idea and functionality:

*https://kahoot.it/challenge/07972452?challenge-id=f275e7b9-c6c9-44ae-aa78-369c120a8e24_1590547083759
(This is a template of what questions I'll be placing within my Kahoot challenge)*

From my original drafts which couldn't be displayed on this form, I used boxes to represent the six webpages used in the website. Within every sub-page, it includes a different task; for instance, some of the tasks include providing the symptoms of the virus. In addition, I provide ways in which someone can help relieve the virus?

Information on my website (couldn't be placed on the form)

Currently, I'm still working on how to implement different webpages to the code. In addition, I want to add more color and images so the website can actually look interesting. Finally, I'm attempting to find more resources so this website can provide abundant amounts of information to the audience (this question's answer is continued through the optional)

Team Members:

Links:

https://kahoot.it/challenge/07972452?challenge-id=f275e7b9-c6c9-44ae-aa78-369c120a8e24_1590547083759

10th

Built In Home Fun

Sivani Arvapalli

South Windsor High School

Entertainment

What problems are you trying to solve?

The problem being addressed is that closing down many restaurants and places has caused people to be bored at home. Their boredom then leads to them not following the rules and being with friends even though they are not supposed to be during this global pandemic. This app should serve fewer numbers in cases with the help of not spreading boredom. People having more fun at home or in safe places can control their need to be with friends which can lead to a decrease in cases since fewer people interactions will occur.

What inspired you to address this problem?

My own boredom has inspired me. I have seen some of my friends not following the rules which is dangerous because they are so bored at home. This is different from how we regularly live our lives by not going to school and not being able to eat out with her friends. This app will be able to give new ideas to people while keeping them safe.

Describe your idea and functionality:

The focus of my project is the possibility of getting ideas to people. Depending on the type of person you are (athletic, creative, etc.) a list of ideas will be shown. The app's main screen will have a list of personality traits where the user can select which trait applies most to them. When the user clicks a certain personality trait, then the designated screen will occur. If the user clicks athletic, then the Athletics screen will occur. The designated screen will consist of a list of different ideas that the user can do during this time safely using a tiny DB that stores the ideas. If the list has a word that is underlined, then there is more information to that idea and the user can click the underlined word to go to the new designated screen coming from the Internet. If they click hiking under athletics, then they are given a list of hikes near them that are safe to go to. This would be from a website like AllTrails which can be used in MIT AppInventor.

Team Members:

Links:

https://docs.google.com/document/d/1TzzQkmeWaLPVQ_c9VNO9-sAsmA4mV54as5uS2py1lu4/edit?usp=sharing

10th

6 Feet

Anna Weiksner

Greenwich High School

Businesses, Community, Health, Vulnerable Populations

What problems are you trying to solve?

Although people try their best to maintain social distancing, sometimes it is hard to know whether social distancing will be in practice before going to a park, grocery store, or other public location. This is especially problematic for people who are in the vulnerable population such as the immunocompromised and the elderly. As the weather gets warmer and businesses are slowly opening up, people are more likely to leave their homes, making it harder to adhere to social distancing guidelines. Currently, there are numerous bikers, joggers, kids playing on the streets, and people visiting parks and going to beaches. Furthermore, grocery stores are either extremely crowded or people face long lines. People also have no way to know if one of the people they were near in say, the grocery store contracted the virus.

What inspired you to address this problem?

Waze is the inspiration for this project. Their app is extremely effective at traffic management and directions to minimize travel time, as well as providing safe routes. Google Maps has a more simplified version of this technology, utilizing smartphone data such as location service and historical trends. The "report" feature is especially important in the Waze app and relevant to this proposal. In our project, there would be options to report if people are socially distancing, wearing masks and if the area makes the shopper feel safe and respected.

Describe your idea and functionality:

"Six Feet" is an easy-to-use, crowdsourced app and website that uses smartphone data to detect foot traffic in public areas including roads, grocery stores, parks, and beaches. Based on an algorithm pertaining to density, areas would be marked as green, yellow, or red, representing low-traffic, medium-traffic, and high-traffic routes or areas respectively. This would allow users to avoid crowded areas and encourage social distancing. As the app collects data, it can use historical trends and neural networks to predict times at which these locations are busiest so users can plan accordingly. Users can rate locations based on whether people are wearing masks and respecting social distancing guidelines to both incite businesses to establish social distancing rules and give users real-time updates. This app would be cost-efficient and effective in mitigating crowds and giving vulnerable populations accurate forecasts in turn decreasing COVID-19 infection rates.

Team Members:

Sofia Pronina

Olivia Schnur

Links:

<https://youtu.be/87yj7553lag>

Corona Cognizance

Faizdeen Pathan

South Windsor High School

Health, Awareness and instructions

What problems are you trying to solve?

For my focus area, I am planning on basing my app off of awareness of the measures taken when an individual may have symptoms or doesn't know what to do in general in these times. This app will allow the users to ease into the smooth interface, and find the answers they are looking for. Millions of Americans, don't know or are confused about the steps to take during these times, this app will provide all of the information and steps they need to take. This app will allow people to reach out to communities and help others as well through their donations. It is a combination of spreading awareness of the Covid-19 initiatives and allowing people to intervene in their societies. This will be done through simple interfaces, that are easy to use for anyone at any time.

America is the leading country in Covid-19 cases, and throughout the world, it has the most deaths. Millions of Americans have been infected, and unfortunately, many more are to come. Not only this but, Americans want to help and support their community yet, don't know the correct ways to do so. Americans who already are panicked and afraid are getting even more panicked through false media. As an article in Forbes states, "As The U.S. Prepares For COVID-19 Disinformation Stokes Panic And Discord". Disinformation is deadly; it can cost many lives and needs to be an aspect of this unfortunate crisis that we can solve. If this wasn't enough to give us the initiative to create this app, the CEO of BlackBird stated, "During a crisis, the combination of disinformation and malicious misinformation can cause significant damage and even loss of life". If something so controllable such as information can cause such harm, we need to address this problem and find a solution. If this doesn't get solved soon, people can lose their lives not knowing what the next step was. Another issue arose about physical volunteering during this time. This could be very dangerous as many articles suggested that they can easily acquire the virus and even worse become a vector to others. Through research, I have found a list of beneficial organizations to Americans during this crisis (Listed on functions/descriptions page). If people continue to spend time volunteering physically they are putting themselves in danger and anyone who associates themselves with them. For this reason, it is best to donate money, as it will be lots more beneficial and will impact more lives.

What inspired you to address this problem?

It is obvious that the world hasn't been through this type of crisis before, and on an objective level, we need to attempt to save lives and diffuse panic and disorder as much as we can. We need to put politics aside and we need to help the people who are impacted by these calamities the most. I always believed that saving even one life was a huge deal, it was something I always morally agreed with, and now looking at our situations, and doing tireless research on the effects of panic and discord on the population. I have come to the conclusion that this is a necessary act, that will save lives, and limit the spread. Subjectively speaking, my mother about a month and a half ago started having symptoms, such as cough, and fevers. I was very scared and our whole family was worried, as she has an asthma respiratory problem. Not only this, but she works daily at one of the biggest hospitals in CT. We were very underprepared and very worried, which led to panic within our household. Thankfully, she had a simple cold, and it wasn't the Covid-19 virus, however, I realized how much some of this information could have come in handy at these times. There are some questions I ask my Mom in the following transcript.

Me; "When you started to have these symptoms how did you react?"

10th

COVID-19 Facts and Information

Richard Guman

Newtown High School

Community, Education, Health

What problems are you trying to solve?

I am trying to ensure that everybody has the opportunity to learn about the Coronavirus, and how they can stay healthy and safe.

What inspired you to address this problem?

What inspired me to address this problem was that many people are still unaware about the facts and information regarding the Coronavirus, and I thought that it would be convenient if there was an app that informed people about COVID-19.

Describe your idea and functionality:

My idea is to create an app that is set up in the form of a slideshow, and the user is able to switch the slides, revealing facts, and information about the Coronavirus.

Team Members:

Links:

Businesses in Classrooms

Aryan Kalia

South Windsor High School

Businesses, Education

What problems are you trying to solve?

The disruptions caused by school closures has left high school students in limbo across the country. Communities are trying to rebuild against the backdrop of an ongoing pandemic. The reopening also brings the fear of a potential second wave of COVID-19. During these times, the focus will be on the essential workers and not on the enrichment opportunities for students. If the partnerships between students and the businesses can be fostered, we could be looking at building stronger and self reliant communities from within. This tough environment should be leveraged by the student community to extend their skills and the unexpected availability to help out the community and businesses in whatever ways possible in return for experience and some outside the classroom learning.

I conducted a survey of a small sample of high school students across the state and concluded that a high percentage of students were looking at cancelled summer camps, internships, and research opportunities. Without any remediation steps, the existing gap between the disadvantaged and the affluent students will only widen over time and could push one group of the community over the edge. Instead, we can choose to make the most of the crisis and help the education system by giving it the jumpstart it needs to come out of this slump.

What inspired you to address this problem?

Under ordinary circumstances, I believe that students' high school experiences too often fail to prepare them for the rigors of work in an information-based economy. As such, this tough environment should be leveraged by the student community to extend their skills and the unexpected availability to help out the community and businesses in whatever ways possible in return for experience and some outside the classroom learning. Looking at long, open summer weeks that I have ahead of me, I knew that I had to think outside the box. I choose to not complain about something that no one saw coming. I chose to rebuild my summer and the summer of my fellow friends.

Describe your idea and functionality:

The idea is to build a platform that will match the registered students with the database of business requests. Basically, the app/website will serve as a platform to help students find opportunities according to their interests. The key consideration for businesses posting is that the opportunities need to be virtual. Services including but not limited to:

- Online tutoring sessions for K-12, SAT, PSAT, Math Subject Tests*
- Running of basic reports*
- Any data entry projects*
- Making phone calls*
- Designing websites/apps*
- Designing marketing/promotional material*
- Any other tasks that can be performed virtually.*

The process flow for this platform (app/website) is visualized below.

Once the student is matched with an opportunity, both parties will continue to further define requirements and plan of action over zoom/other online platforms.

10th

My COVID-19 App

Sufyan Saeed

South Windsor High School

Health

What problems are you trying to solve?

My focus area is health because I am trying to create an app that will inform people on how to stay safe and maintain good hygiene along with warning them on how extreme the chances of catching the virus would be based on their location and then also inform about further steps on staying safe based on your chances. The problem I am addressing is bad hygiene and bad social distancing among people during coronavirus along with the problem of people simply not being aware of how the virus works or its severity. The research that led me to conclude that this problem exists is how the cases of coronavirus are still increasing and that there are more cases in more densely populated areas. This research pertains to the problem because although a rise in cases is inevitable the speed at which the cases are rising clearly can show that people don't follow social distancing properly or at all, along with this obviously more densely populated areas have higher cases so if you live in these areas you should probably be even more cautious and extreme in the way you social distance. If this problem isn't solved impacts could include the continuous exponential rise in cases and with that comes the chance of more fatalities.

What inspired you to address this problem?

I was inspired by this idea by just what I see on social media and how I see everyone react to this virus, more specifically the amount of regard and disregard people give to this pandemic. An example being how a lot of my people I'm friends with constantly go out with each other during this with no masks and go to the beach. Research that I have found that supports the existence of the problem being addressed is how "The slight increase comes after days of declining hospitalizations and on the first weekend after the state began its gradual reopening of what were deemed nonessential businesses. Confirmed cases of COVID-19 continue to climb as more and more people are able to be tested for the illness. The Lamont administration said that COVID-19 cases increased by 405 to 40,873; tests administered increased 7,590 to 221,726 and COVID-19-related deaths increased 49 to 3,742."

(<https://www.courant.com/coronavirus/hc-news-coronavirus-0525-daily-update-20200525-4wabsabxzhgrpkoyg7ryrup6i-story.html>). Also, how in Connecticut the bigger towns obviously have more cases so it would be helpful to be able to know how to further combat the virus besides the current social distancing rules.

Describe your idea and functionality:

My app would use an API to join different databases to give the personalized information to the user. The API would join the different databases of the amount of cases in different areas and then also use the databases of the amount of cases risen that day. It would determine the severity once again through the databases shared through the API and determine a severity rating for you based on your location, the amount of cases in your city or town, the increase and decrease trend in your town, and overall how your state is doing in terms of cases and increase and decrease trends. There would be a procedure used that calls different lists of different social distancing tips which would be categorized based on extremity of the measure. The procedure could call the indexes for a certain list if the statistics for your area are above a certain level.

Team Members:

10th

The Hand Washing Game

Alaric Anderson

East Lyme High School

Community, Education, Entertainment

What problems are you trying to solve?

This game is supposed to encourage people to wash their hands after interacting with people as well as encouraging them to practice social distancing.

What inspired you to address this problem?

I realized that even though I was social distancing, I was still interacting with things that other people touched so I thought it was important to inform people to wash their hands.

Describe your idea and functionality:

In this game, you are a person and your goal is to avoid the virus. if you do touch one, you have to go to the sink and wash your hands. You however cannot stay on the sink.

Team Members:

Links:

10th

Daily Diagnosis

Daniya Iqbal

Newtown High School

Community, Health

What problems are you trying to solve?

I am trying to solve, or prevent, the spread of the virus through this app, Daily Diagnosis. The purpose of Daily Diagnosis is to protect the community from getting the virus from someone who could potentially have it. This will be especially beneficial when students start going to school and workers return to their jobs.

What inspired you to address this problem?

The root of the virus becoming a problem at this scale is the rapid rate that it is spreading. Our situation worsened so quickly due to people unknowingly spreading the virus. Therefore, if this problem is addressed, then everything else will begin to settle down, and hopefully better, as well.

Describe your idea and functionality:

As schools, offices, restaurants, and more start to open up and people begin to leave their homes, the virus will of course still be present. Therefore, after quarantine is over, the best thing we can do is to still have those showing symptoms remain at home. Daily Diagnosis will be an app that asks some variation of the following four questions: What is your temperature? Are you having shortness of breath? Are you coughing/have a sore throat? Have you been feeling body aches/fatigue? These questions will perform a general examination of the virus' symptoms and suggest further actions based on the person's responses. For example, if the person's temperature is normal the questions will proceed. However, if the temperature is higher than normal the app will prompt the person to stay at home from school, work, etc. The same goes for the rest of the questions. Overall, if all answers are good the app will give a "thumbs up" confirming that the person can attend school or work.

Team Members:

Links:

10th

LiveGames

Audrey Botta

Newtown High School

Community, Entertainment

What problems are you trying to solve?

A lot of kids are getting depressed or sad because they cannot be with their friends. By playing games with them, they can feel more connected.

What inspired you to address this problem?

I have been feeling sad and disconnected lately, and my friend and I started playing some GamePigeon games. However, these aren't live, and although they helped it's not the same as doing something live with your friends. So I wanted to create something that people could play together live.

Describe your idea and functionality:

It would be an app, and you can add your friends on it. Then, whenever your friend joins a live game, it will send you a notification so that you can go join them. If you don't join them, then they have the option to play with a computer until you join or they feel like leaving. Also, there is no limit to people per game, that way large groups and families can play together. These games include card games (spit, uno, crazy 8s, etc.), board games (sorry, problem, chutes and ladders, etc.), trivia, and arcade games (group pacman, group space invaders, racing, etc.).

Team Members:

Links:

10th

Coronavirus OneStop News Aggregator

Bryce Bittner-Chee Hing

Windsor High School

Community, Education, Health, Vulnerable Populations, Crisis

What problems are you trying to solve?

To be well-informed on all the struggles against the COVID-19 crisis, one would need a large number of different subscriptions to various news and services. If all this information was aggregated and funneled out of a single app, keeping track of all the information would be easier.

What inspired you to address this problem?

The U.S. government has allowed many large windows of opportunity for misinformation from suggesting taking malaria treatments and fish tank cleaner to not discouraging the promotion of items like "anti-corona healing crystals" which never had and never will protect against the virus. In addition, it is hard to find headlines relating to other vital information such as that of vaccine progress (Moderna has appeared only once in the news over the past month).

Describe your idea and functionality:

The application would draw from various news outlets and gather all recent headlines related to the coronavirus. Examples of sources include The CDC website, Anthony Fauci's twitter posts, or CNN headlines. Then they would be placed on the feed in the app, and could even be released as on-screen notifications (based on notification preferences).

Team Members:

Subha Kamili

Links:

COVID Uncensored

Jasmine Carby

Academy of Science and Innovation

Community, Education, Health

What problems are you trying to solve?

The problem being addressed with this specific program is in targeting the very lack of information regarding this virus. Many citizens of not only Connecticut but all around the world are misinformed about the virus causing not only panic on their end but an unnecessary increase in infections. With more knowledge about how society can manage and take care of themselves, the virus may not be as feared and cases can possibly be prevented. In addition to the educational aspect this program also targets through that of a mental aspect as well. The program contains an encouragement piece that helps in decreasing the state of panic and therefore increasing the state of well being.

What inspired you to address this problem?

This program came about through a few different ways. The main way in which this idea came about was because I was thinking about how fearful of the virus the people around me and the people with whom I've come in contact were. Another contributor is that I was aware of the misinformation regarding the virus and how stirred up certain groups of people I knew had been because they themselves felt misinformed.

Describe your idea and functionality:

The app that I am proposing is called COVID Uncensored. The name of the app reveals some of the meaning in which the hope of the app is to reveal and uncensor information that many people of the public and of the general society don't know. This app would have many components. One of these components would be a symptoms piece. Within this piece users are allowed to take a test about the virus in attempts to reveal whether or not they show symptoms of the COVID-19 virus. Another component would be the Q and A section. This section is meant to give tips and make users and those experiencing the effects of that of the COVID-19 virus feel heard. The last component would be a section of daily encouragement. This component of the app would allow users to be notified if they turn on their notifications with inspirational and positive quotes and feedback therefore relating to healthcare and the wellness of the mind.

Team Members:

Links:

10th

Corona Quiz

Ava Braca

Danbury High School

Businesses, Community, Health, Vulnerable Populations

What problems are you trying to solve?

I want to help in social distancing and avoid unnecessary doctor/hospital visits.

What inspired you to address this problem?

I was inspired to address this problem, since I had to wait outside certain stores until people left. I could have saved time by going to a different store. In addition, a lot of coronavirus testing by me is overcrowded. If people knew their symptoms better, virus testing could be prioritized.

Describe your idea and functionality:

The quiz questions will give people an educated guess on if their symptoms are related to the coronavirus. This will solve the problem of unnecessary visitation in the hospitals/doctors offices. Another part of the app will show which hospitals, beaches, and stores are crowded. The population of all surrounding places will be shown in order to aid in social distancing and avoid going past maximum capacity.

Team Members:

Brooke Beneway

Links:

Solving Stimulus Funds With CS

Sidharth Masarur

South Windsor High School

Businesses, Government stimulus distribution to help economy

What problems are you trying to solve?

Small businesses are lacking the funds and profits to stay afloat, and they cannot afford personal protective equipment for their employees, in addition to having lower customer loads. This program helps them get the stimulus funds quickly and easily.

What inspired you to address this problem?

I see this very often in the news, as many small businesses cannot keep up due to lost profits from reduced or no customer demand. It makes me feel as though we aren't helping these businesses, and these people are stuck in a rapidly-degenerating situation through no fault of their own. I want to create a program that will help these business owners get their funds in an easier and simpler way. This program will allow them to keep track of new deals that are being passed in terms of stimulus money, so that they can check how much they can expect to receive, as well as seeing how their business is doing.

Describe your idea and functionality:

This program contains 3 Java classes. In the government class we can set the initial stimulus funds to a certain amount, and then use the method `add Stimulus` to continue depositing more money into that account. Meanwhile, the part `getStimulusFunds()` will allow us to see how much money is left in the account. In distribute, the method will go through each business in the business list, giving them a specified amount using the parameter, depending on whether they have less than 50 employees. The next class is the business class, where businesses get a bank account, a name, a sector of business, and employees. Here they can see how many employees they have, add new ones, check their bank balance, and add or subtract from their account. Finally, the business list class keeps track of what businesses are in the country, using an `ArrayList`. There, the method can see how many businesses there are, how many businesses of a certain type there are, and they can add new businesses.

Team Members:

Links:

10th

Youth Covid-19 Survey

Matthew Long

Ridgefield High School

Community

What problems are you trying to solve?

Seeing how the COVID-19 virus is affecting the day to day activities of the youth.

What inspired you to address this problem?

To see the impact the virus is having on the younger generation. Much has been written about impact of COVID-19 on the older population. The youth population is not represented in this.

Describe your idea and functionality:

My idea is a youth survey finding out how the virus has impacted people in ways other than illness. The survey will be on social media platforms such as Instagram and Facebook.

Team Members:

Links:

10th

Quarantine And Boredom App

Aditya Kalluri

South Windsor High School

Community, Entertainment, Health

What problems are you trying to solve?

People are not utilizing and creating options for entertainment, physical activities, and as a result are getting bored in addition to suffering caused by the pandemic itself (medical problems, etc.). The research to provide evidence for this problem is 80.4% of people in the United States use technology on a daily basis which includes various types of entertainment, this increased from 2019 as it was 77.1%. Therefore we conclude that people are not utilizing their free time effectively which is the lack of variety in their freetime. For time to be utilized correctly but also creating a variety of entertainment options the impacts would be more social interaction between friends and families when talking about current trends and the risk for being bored at home will be significantly decreased.

What inspired you to address this problem?

Our inspiration stems from Governor Cuomo because everyday he gives constructive feedback on how to deal with tough situations during this tough period. Another reason we were compelled to do this was due to the rapid infection rate that COVID-19 has currently in Connecticut, and how much this will affect people.

Big Business leaders in the United States and other countries are giving inspiration to kids, especially tech companies to learn a programming language or create an app.

Some spiritual leaders are also giving motivation to be active in these hard times.

Describe your idea and functionality:

The Survey App on COVID-19 is designed to provide an interactive way for users experiencing a change of lifestyle due to the pandemic and provide help in any way possible. Since people are getting bored in being quarantined, the app mainly focuses on pop culture and current affairs in the survey. Subcategories include: Medical Help, Recommendations (Books, movies), MEMES, Constructive/Physical Activities, Safety Tips to ensure the user is never going to be bored at their homes.

Team Members:

Atharva Shrivastava

Links:

10th

New Doors

Chris Santoro

Ridgefield High School

Anywhere with a door

What problems are you trying to solve?

How to keep doors that are used all day and rarely will they be cleaned enough. All it takes is for one person to be sick and then many others could be too.

What inspired you to address this problem?

Whenever I go to a store or somewhere to shop I always have to open the door by hand but if they were all automatic then no one would have to open it. I've always been kind of a germ freak especially when I go to restaurants or supermarkets. I always try to open the door with a glove or my elbow or something like that.

Describe your idea and functionality:

If places were able to put automatic doors in so that when people go into the store or shop everyone is not touching the same door.

Team Members:

Links:

Sayonara Coronavirus

Isha Bang

South Windsor High School

Community, Education, Entertainment, Health

What problems are you trying to solve?

An article by The Nation titled "Coronavirus Spreads Quickly Due to Unawareness" states "The lack of awareness regarding coronavirus is amongst the uneducated and less educated people of rural areas causing carelessness among such communities and the people despite lockdown are violating the SOPs. This is going to be the major concern for its adjoining cities and towns." Many people are not able to be educated about the Coronavirus, and the hygiene behaviors to prevent the spread of the Coronavirus. The article also states "As a result, the most of people residing in villages and small towns have not been taken the lockdown seriously and have been holding different open meetups, gatherings, playing games at open grounds, sitting and assembling at opened shops and not avoiding handshaking and hugging." As people are not educated about the preventative measures and the Coronavirus, it is leading to the increase of the spread of the Coronavirus. Therefore, people need to be educated about the Coronavirus, and the methods to prevent the spread. This game will help children learn about preventative measures and methods to prevent the spread of the Coronavirus. This will address a range of health initiatives, including hygiene behaviors.

What inspired you to address this problem?

Through my research I had stumbled across a video titled, "Kids Explain the Coronavirus," posted by The Atlantic. In the video, one of the questions was what adults should be doing about the Coronavirus, and one of the kids had said adults should be following the rules, and make sure the kids are following the rules, while another kid had claimed they should really help their kids understand what they should be doing. Another kid claimed they should be telling others to wash their hands. I had then realized it is very important to get the information across to young children, as much of the information they get may be through the adults surrounding them. This game can help the pursuit of adults to help kids better understand the Coronavirus in a more friendly manner, and help them learn about how to prevent it. I had also found an article by the CDC which was talking about the Coronavirus with children, and how children can often worry about the virus. The form a game could help provide a sense of reassurance, while educating children about the virus.

Describe your idea and functionality:

There will be an icon for washing hands, sneezing into an elbow, a mask, the standard distance of 6ft, hand sanitizer, and a vaccine. Although there will be icons such as coughing without covering, a mask crossed out, less than 20 seconds of hand washing.

Each round of the game will be one minute. You are able to swap the icon with a consecutive icon, and if 3 of the same icons which represent the preventative measures are in a consecutive order either horizontally or vertically, the row or column will eliminate, with new icons filling in, and the score will increase. Although, if 3 of the icons represent otherwise, the score will decrease. The level will increase after a certain score limit.

In Java, the class will have fields for each of the icons, and methods to simulate the game play, such as the swapping of the consecutive icon, if three of the same icons end up consecutive in a row or column, and the increase or decrease the score depending on the icon.

Team Members:

Links:

10th

Transit Capacity Safety Software

Vincent Cai

Cheshire High School

Community, Health, Vulnerable Populations, Transportation

What problems are you trying to solve?

The problem I am trying solve is the high risk of spreading the virus aboard public transportation, despite it being an essential service people depend on. Since low income communities have lower private vehicle ownership rates and higher dependency on public transportation, they have been disproportionately affected by the virus. Therefore, a solution to crowding onboard public transportation can make the biggest difference toward these communities.

What inspired you to address this problem?

My parents regularly use the Ctttransit buses to commute to work, and the advent of the coronavirus has caused significant distress for our family using public transportation. I know that this struggle is not unique to my family, for thousands of other Connecticut residents have the same fears we have riding public transportation. They feel like their commute is the most dangerous part of their day, spending time onboard a packed bus filled with commuters, without social distancing, and risking infection. Seeing the videos of packed subway cars in New York only raises the fears of many commuters, including my parents. If only they could be informed on whether a current vehicle was crowded or not, and determine a safer way to make their essential commute, they could feel much safer during this pandemic. Seeing how Ctttransit already makes use of modern technology by providing schedules and real time bus location information through mobile apps, I thought it was very much possible that information about capacity and crowding could also be communicated to passengers, a service that is desperately need during this time.

Describe your idea and functionality:

The solution to combating crowding is to track current bus ridership by computer software and provide that capacity information to the rider to make informed decisions about riding public transit during the pandemic. Data from ridership trends can be analysed to determine at which points, at what time, along which routes crowd occurs most often, and thus give an estimate of the average ridership of a vehicle. However, real-time information is a viable and more accurate solution. Technology is already being implemented to automatically count passengers on vehicles through sensors, but there are other solutions such as video counting, counting at the fare box, or having the driver and/or passengers update an estimate of current bus ridership, as is already being done with information on bus location. This information is sent periodically to a database, and is communicated to the rider through mobile apps, to determine whether or not a bus is too crowded to be safe to ride.

Team Members:

Links:

10th

COVID Made Easy

Macyn Rosay

Academy of Science and Innovation

Community

What problems are you trying to solve?

With so many reports being made and so many problems being addressed, it is hard to find out which ones are relevant and how to find information that you need. I also wanted a system where people could help others, even anonymously, in case there were questions or if people needed to find supplies. I wanted a place where people could find the information they needed, whether it came from another person or from a news source. I also wanted to solve the distance people are now feeling, especially the distance from their own community. I wanted people to be able to talk together. I wanted people to not feel so distanced from others.

What inspired you to address this problem?

I was inspired by this idea when my father had to watch the live address of the governor of our town just to find out a tiny detail. I thought that it was kind of pointless to have to watch a whole video when he was only looking for a tidbit of information that was actually relevant to him. I wanted it to be easier, which is how I came up with the idea of summarizing big videos and news reports, in order for information to be easily accessible and for it to be found faster. I also wanted people to help others. I knew people were struggling to find everything. I knew there were people who could not find toilet paper or hand sanitizer. I remember my father's friend having to text my father in order to find out where supplies were. I wanted an easier system, where not just friends could help each other, but so could everyone else.

Describe your idea and functionality:

In the midst of a global pandemic, it can be hard to get accurate news that applies to you. There are so many alerts, that it can be difficult to find information you need. An app that can act as an alert system when any news pops up can be very helpful. People nowadays may not be able to go through all the news stories. All stories will have tags relating to the information inside. People can follow certain tags and will get alerted when a story with that tag is posted. It is useful for people who cannot watch live addresses to the public. They can find all the information, summarized, on the app so they do not have to watch a video. The app can also be used to remain together in a time where a lot of things are keeping us apart. There will also be a messaging system, with an option to remain anonymous, for people to speak out. There will also be an SOS system for people in need of supplies, so that other people can help out directly or they can tell the person where to find supplies.

Team Members:

Links:

Sudden Need

Labeeb Samir

South Windsor High School

Businesses, Community, Education, Entertainment, Health, Vulnerable Populations, This app idea really doesn't have to generalize in a specific direction, rather it can cover anything or even everything that is a necessity. Whatever is most desired. The app's premise is to help with the epidemic with spreading awareness for everything that is needed by any means necessary. Essentially, the purpose is to share vital information that is needed during this crisis. This can be health, community, entertainment, whatever. The top priority is to help spread helpful info, anything, even if it's little! If it had to boil down to a specific area, the most relevant in context and easily implementable focus area for the app is health. However, since the focus is to help share info for anything, if health isn't needed or wanted, it can easily change to the business, community, education, and others by implementing new code as the app concept of tip sharing is still the same. Regardless of this adaptability, it would best work for health if it is needed and the general focus would be health.

What problems are you trying to solve?

There are three problems being addressed. One being the unfortunate need for toilet paper. During this crisis, there have been numerous reports of toilet paper shortages, a necessity. It is so extreme and prevalent throughout the world, people are literally fighting each other over it. This is a clear thorn in humanity's side, and it's best to spread awareness by alerting the player about it throughout the world before this problem gets even worse. Another problem that is being addressed is the pandemic itself, by implication. Since the game is literally about the pandemic it's bound to alert the player about how bad this crisis is. The final problem the app addresses is whatever focus was selected (for more context refer back to the focus idea). Since the most relevant one is health, it will be assumed health is selected as the focus. Since health is selected, the app will alert the player about how they can help themselves and others with health tips confirmed officially by the CDC. In general awareness for a specific problem or even all problems will be alerted to the player if selected as so. So, the app will cover 3 problems.

What inspired you to address this problem?

Though it may seem a bit immature and unethical, this application was originally inspired by memes. More specifically, the toilet paper shortage meme that has been running around the internet recently. The more specific details of the shortage and what it was were covered up in the problem being addressed section since the inspiration is the problem being addressed, or at least one of them. Regardless, this toilet paper shortage meme seemed like an ingenious thing to make a game out of, yet can still be effectively used to create reliable PSA's hence why I am inspired off the meme to create an app for the greater good. Not only is it funny, but it still packs a punch in terms of helpfulness.

Describe your idea and functionality:

The main design of the app itself is a 2D platformer, where you play as a character who runs, jumps, crouches over objects to collect 1 toilet paper roll each level. The character moves by swiping the phone screen in the direction swiped. You press buttons by tapping on the phone screen where the button is located. Every single time the player successfully manages to acquire the toilet paper (via touching it), the app displays a helpful PSA fact that can vary (like said before, all-adaptable) depending on whatever's inputted. The player can then press next for the next level, and then again, the same message and next button happens making a cycle. There is a twist, there can be dangerous objects that are randomly placed on the platformer, that when touched, kill the character and force the player to restart from the beginning of the level. Not to mention the fact that the normal object placement and stage shape can vary randomly.

10th

Corona Communicates

Swara Malikayil

South Windsor High School

Community, Education, Entertainment, Health

What problems are you trying to solve?

The problem we are addressing is the lack of knowledge as well as the lack of concern regarding COVID-19. Furthermore, we want to prevent misinformation from spreading. As well as, we want to educate children in a manner that is age appropriate for them.

What inspired you to address this problem?

During this stressful time, it came to our attention not everyone was informed of the situation and how critical it is to self-isolate. We saw people around us, even our friends, that did not recognize the severity of the condition and we thought an app like this is an easy, accessible way for people to be informed. In addition, we realized this time can be very confusing and overwhelming for young children. Therefore we decided to make a separate section called Kids' Palooza which will have a kid-friendly informational page that is appropriate for them. Also, because we have all experienced boredom, we made a section with a variety of games and a section with a variety of books including books that will educate them on hygiene and germs which is key especially when it is time for everyone to go out into the world again.

Describe your idea and functionality:

If the user allows the location to be used, they'll be directed to the home screen where they'll get a live count of people infected and accurate information on the virus by trusted media. If access is denied an error message will be shown so the user must give access to the location. The drop-down menu allows the user to switch screens. The app has an adult section and a kids' Palooza. The former consists of a home-screen, radar, and timer. The radar uses the inputted location showing those who are infected. The timer provides a recommended time hands should be washed.

The kids' section consists of a kid-friendly information page. The first page has many games that are fun, educational and allows kids to learn about germs and hygiene. The final screen is a Library, readers are able to choose from a variety of books to read or have read to. This will teach them about viruses and hygiene. The Kids' Palooza keeps kids educated on the current situation in a fun and appropriate way.

Team Members:

Jyothirmayee Mavillapalli

Links:

10th

Simplifying Economic Relief

Aarav Nair

South Windsor High School

Businesses, Community, Low-Income Individuals Affected Financially

What problems are you trying to solve?

The problem being solved is bankruptcies. The focus area is on businesses and low-income populations. My idea pertains to the focus area because it addresses the financial situations of small businesses and unemployed individuals by allowing them to access funds quickly.

What inspired you to address this problem?

This idea came from the Small Business Administration running out of funds and the inability of states to process unemployment claims. The problem was not only due to a lack of funds, but also outdated computers which were not prepared to address the large number of claims. My idea aims to fix the latter problem.

Describe your idea and functionality:

My idea allows users to submit claims for funds from the government. The government can review these requests and then send funds to their bank account. There are two different aspects of this program. The User Side allows them to create a request, while the government side allows them to see all requests. Once a request is fulfilled, or it is deemed unnecessary, that request can be removed. There are only six primary functions in my app, ensuring it is easy to program and debug. They are the User Adding Their Request, User Editing Their Request, User Removing Their Request, User Viewing Their Request, Government Removing a Completed Request, and Government Viewing All Requests.

Team Members:

Links:

10th

Bingeflix

Tom Augustine

South Windsor High School

Entertainment

What problems are you trying to solve?

A huge problem while staying at home is what to watch that will entertain you for hours. This idea may help people find entertaining content to watch with friends and make staying at home easier. In my research, I looked at what most people loved while staying at home. The majority of the time in quarantine is spent interacting with some sort of entertainment. At the moment, many people are 'quarantine fatigued' so the problem was how to keep people back inside.

What inspired you to address this problem?

My inspiration for this idea was my personal experience with the struggle of staying at home. I noticed that I was slowly running out of good movies to watch. I needed to look up good movies and would search for one online until I found one. This was a waste of my time because I would like the system to pick one for me instead of me having to search for good movies and select them. Not only this but I love binge-watching my favorite shows and go on movie marathons with my friends which makes this combo an awesome idea. This would guarantee more people to stay inside and enjoy their new way of binging with friends instead of going out and getting sick.

Describe your idea and functionality:

To start off, the user would log into netflix and press the chrome extension to activate Bingeflix

Pseudocode:

The content class with one object that have attributes (genre, actor, type, rating, name)

type can be movies or tv shows

private list watched Content which stores movies that are already watched

private list to See Content which is the list that is going to be binged.

private list all Content which stores all the Content on netflix

method get List (genre, actor, type) which gets the content in best rating order which matches the parameter and also removes the content which are in watched Content.

method makeList() in which you may add your own preferred content to to See and watch from there.

method deleteList() which deletes everything in to See.

Team Members:

Links:

10th

TP Spotter

Jason Bechard

CREC Academy Of Science and Innovation

Businesses, Community, Health, Vulnerable Populations

What problems are you trying to solve?

People having to visit multiple stores to find the supplies that they need.

What inspired you to address this problem?

I came up with the idea for this app when my parents had to go to multiple stores to find basic supplies like food and personal hygiene supplies. I noticed that social media was being used to stay in contact with friends, and realized that it could be used to help people find supplies.

Describe your idea and functionality:

My app idea is called TP Spotter and the purpose of it is to aid the community in finding essential supplies such as; toilet paper, hand gel, masks, and food. Many people end up visiting multiple stores to find the supplies they need which puts themselves and others at an increased risk for COVID-19. The app will allow the user to join a community of friends that can post where they find supplies on the app. The app will have a GPS feature where users can drop a pin at stores where supplies are. Posts will expire after two hours or when another friend reports the items are out of stock. This app will help prevent people from putting themselves in danger by limiting the amount of places a person has to go to find essential supplies.

Team Members:

Links:

The Community Bulletin

Lorina Sediqi

South Windsor High School

Community, Vulnerable Populations

What problems are you trying to solve?

The problem being addressed with this submission is that of connecting people to their community in order to easily spread news throughout the community, and help members of the community who are at risk, and therefore unable to leave their homes. When researching this problem, I found ways that people within communities are already keeping connected, and ways that they are helping each other. For example, neighbors are getting groceries and picking up medication for each other, and are donating items that they no longer need. Through researching these methods, I have come up with ideas and methods for how to simplify these ongoing events with an app that can connect the whole community. If this problem went unsolved, communities would remain unconnected, and groups of people who are at risk, such as older people or those who are immunocompromised, might not get the help they need during this time where they are put at a disadvantage.

What inspired you to address this problem?

This idea was inspired by community billboards, where oftentimes ads and requests for help are posted in popular areas within the community, such as grocery stores and restaurants. However since many communities are unable to go out and frequent these areas, the app will serve as an online billboard to connect the community. Through gathering all of this information and putting it all in one place, the tasks that communities are already performing for each other, such as getting groceries and donation items, will be simplified, and easier for the entire community to view. This way, a larger group within the community will be notified and able to help out. This idea was also inspired by my own personal experience during this time, because my family has been one that has gotten groceries for others who are not yet comfortable with going out to stores, such as my grandma.

Describe your idea and functionality:

My idea connects people to aid in tasks that have become complicated, and regain a sense of community. The users of my app will be assigned a community, and will be able to see a bulletin board posted for their area(See the UI example linked above). They will be able to post announcements, questions, sign-up sheets, etc. that others can see. In order to ensure the user's privacy, the app will set parameters for specific locations and communities, so users are in the correct community.

For this app, I would use MIT App Inventor's programming language, because I have the most experience with it, and it's meant to create apps. In this app, I would use a CloudDB to store data because I want multiple users to be able to access the data, and I want it to remain available once the user exits the app. The CloudDB is the best option because it stores data on an internet server, so the app's information saved when the app is closed, and it can be accessed by users on different devices.

Team Members:

Links:

<https://docs.google.com/drawings/d/1cmdpfR3UohWwexWj9G6igSF809Ntuye0g2sDHLjvnUM/edit?usp=sharing>
-User Interface example

10th

Motion Tracker 1.0

Rodrigo Picozzi

Ridgefield High School

Businesses, Community

What problems are you trying to solve?

The problem with supermarkets is that lots of people keep going to supermarkets and it becomes very crowded and that can lead to the spread of the virus.

What inspired you to address this problem?

My inspiration for my idea is my family. I want to help my parents because only one person goes to the store and it becomes tiring for my dad because he goes alone with no one to help him and the rest of my family stays home and it would be much easier and faster for two people to go to the supermarkets so we can come home faster.

Describe your idea and functionality:

So what I want to do is create an app that can connect with the motion sensor in supermarkets to tell how many people are in the stores and then it reminds the user and shows store data to which time has less people. This will help minimize the amount of people in stores and they can be reminded when the store is not crowded. This will decrease the spread of the virus. Hopefully if this succeeds with supermarkets, next it can be used for other businesses such as malls, restaurants amusement parks, major companies etc.

Team Members:

Links:

10th

Covid 19, The build challenge

Luke Winkler

Ridgefield High School

Education, Entertainment

What problems are you trying to solve?

The boredom that people are having while at home. Many people that I know are really bored and don't know what to do.

What inspired you to address this problem?

A couple weeks ago me and my friends decided we wanted to build a little shed as a hangout spot. We would build it together but still make sure to follow the cover 19 rules.

Describe your idea and functionality:

My challenge is to get your friends and make the coolest thing you can make. It can be out of anything like wood or plastic or whatever you want to make it out of. It's completely up to you and your friends to decide. And when you are done making your project, you submit it online and it will be posted on a website.

Team Members:

Links:

10th

Barrier

Shayaan Dabiran

Shelton High School

Technology

What problems are you trying to solve?

I am trying to solve the problem of social distancing. I have heard frequently on the news that many people do not practice social distancing. This app will make it more difficult to not obey social distancing.

What inspired you to address this problem?

I have been inspired mainly by the news and seeing all these images of people having parties and staying close to each other which could help spread the virus even further.

Describe your idea and functionality:

My idea is to create an app that could be possibly mandatory on peoples phones that could beep a loud noise whenever it detects another phone in someone else's pocket too close to your own phone. The beeping will intensify the closer one goes to someone else's phone. To get past people being close in the same families, the app will be made to know the members of the families phones and will not beep near another family members phones. Some could say this violates privacy but I have noticed that there are already a number of pre-installed apps on all cellular devices. This app could just be one more to the list.

Team Members:

Links:

10th

Social Distancing Calculator

Alex Turco

South Windsor High School

Community

What problems are you trying to solve?

People want to get together with family and friends after two months of quarantine and will often meet up in an unsafe manner. They may not be cautiously following the necessary set of social distancing rules. This lack of understanding may cause a continued increase in cases instead of a flattened curve.

What inspired you to address this problem?

My family as well as others have felt very isolated from others for the past two months. We want to be able to see other people but want to always keep ourselves and others safe from contracting Covid-19. It has been tough changing the way you live your day to day life but it is necessary in order to stay safe.

Describe your idea and functionality:

My idea is for an app, that as public areas start to reopen, would allow users to put in information about gatherings they want to hold, and receive information on how to safely gather. Working where the information put in would be the number of people you plan to meet with, the type of area you want to meet in, or the maximum distance you'd travel. The app would take this input and find a lesser populated area of the type given within your distance. If under a group of 5, the app would say it's a safer gathering. While if the group was above 5, it would caution the gathering and add warnings to maximize social distancing and wear masks. If the group was larger, the app would advise against the meetup. Also, there'd be a part of the app for answering questions about re-openings of certain services and any new rules in place. There would be dates or estimates about the plans for a specified state. This is needed as many spots that have started to reopen have seen another spike in cases.

Team Members:

Links:

10th

Coronews

Subha Kammili

Windsor High School

Community, Education, Health, Vulnerable Populations

What problems are you trying to solve?

My partner and I are trying to educate people with the most recent and accurate facts about COVID 19. Knowing the most recent and accurate information would be really helpful for many people.

What inspired you to address this problem?

There are many people in the world getting misinformation due to politics and many people will want to hear accurate news as soon as possible so it would helpful for communities try to be safe and aware about the virus.

Describe your idea and functionality:

My partner and I are planning on making a app which sends a notification everytime there is some update or recent news about the virus.

Team Members:

bittnercheehing.bryce@stu-windsorct.org

Links:

10th

Online Barbeque

Terry Li

Ridgefield High School

Community

What problems are you trying to solve?

Boredom through the community because barbeques bring the whole community together and make the boys happy because we feasting eating good all day every day i'm gonna play wide receiver in the big barbeque online football game

What inspired you to address this problem?

We really want a barbeque with some of my dads smoked ribs and my moms fried rice and my specialty fried noodle and my sister's chocolate cake and my auntie's dumplings.

Describe your idea and functionality:

We will have a zoom call and cook together then eat together then play football together

Team Members:

Links:

10th

Automatic Routine Setter

Benjamin Shi

Greenwich High School

Education, Work and Mental Health

What problems are you trying to solve?

I am trying to solve the lack of motivation and proper time management under quarantine that leads to many unable to efficiently do work and get enough sleep. Having a routine could largely solve these problems.

What inspired you to address this problem?

During quarantine, it has been very difficult for me to do work without getting distracted because I have not been setting a designated work and sleep routine as I had during the normal school year. Having a digital application that helps set a routine automatically would be an immense help for me and others who struggle to naturally set routines and work and sleep properly under quarantine.

Describe your idea and functionality:

My idea is a digital app (JavaScript, HTML, CSS) that can be downloaded on a mobile device or a computer that can automatically set a routine based off of a user's workload and other activities they wish to accomplish, taking in consideration the time to accomplish the work and activities. The application will take many variables in order to create the most ideal routine, like if the user is a morning or night person, when they eat their meals, and what their desired sleep times would be. Once the routine is automatically made, the user can choose to independently customize the routine further if they do not like the provided routine. The user may also choose to have routines based on the day of the week, say weekends will have less work while weekdays will have more work. After the routine is finalized, the application links to the computers or mobile devices' clock and calendar applications, setting reminders using a buzz on when to finish and start a specific portion of the routine.

Team Members:

Links: