

9th

COVID19 Tracker, News and Resources

Rifat Tarafder

Academy of Science and Innovation

Community, Health

What problem are you trying to solve?

My app solves the problem of fake information and facts about COVID-19. Instead of wandering around the internet and possibly receiving the wrong information about the COVID-19 pandemic, this app has the information about COVID-19 all in one app. This app has a worldwide COVID-19 tracker, symptoms for the virus, and a CDC self-check test. It also has news about the pandemic and resources.

What inspired you to address this problem?

When I started to learn about COVID-19 around February, I wanted to have all my information, all in one place. While working on this project, it also gave me a deeper understanding about COVID-19 such as where it originated from, the importance of social distancing, and the consequences of the virus.

Describe your idea and functionality of your computing submission.

The app consists of 3 main sections. The first section is general information about the pandemic. There is a real-time tracker with confirmed cases, deaths, and those who have recovered. There is also a list of symptoms, a social distancing PSA, and a CDC self-check test. The second section displays the latest news about the pandemic from sources such as the UN and the CDC. The third section provides resources such as financial and mental relief, other reliable news sources, and fun quarantine activities.

Teammates:

Links:

<https://www.youtube.com/watch?v=a3NYGAo3VTY>

9th

A Safe Haven for the Elderly

Andrey Kosygin

Ridgefield High School

Vulnerable Populations

What problems are you trying to solve?

Nursing homes are the #1 COVID issue. Around 42% of deaths are from 0.6% of the population, the people living in nursing homes. This is a really high percentage and I want to lower it down using my idea.

What inspired you to address this problem?

Personally, I don't have any relatives that live here other than my parents and brother, but I still hate hearing the stories that my friends tell me and how sad they are when their grandparents are sick. I would love to be able to help solve this issue.

Describe your idea and functionality:

The idea is to focus self-isolation and testing in nursing homes. The elderly who are staying at the nursing homes have to get tested as well as isolated from everyone else. Also, the caretakers have to take very serious precautions. Caretakers have to wear masks and gloves and should strive to spend as little time as possible with the elderly. This is important because it will help prevent the spread of COVID in nursing homes and decrease the death of the elderly.

Team Members:

Links:

9th

ConnectMe - Volunteering Portal

Sophia Cho

Farmington High School

Community, Education, Health, Vulnerable Populations

What problems are you trying to solve?

In these trying times, a lot of people, such as those at risk, out of work, or who have issues with learning at home, need help. Others want to use their abilities to contribute to their community and aid those who are especially affected by the pandemic but don't know where to start or how they can help while staying safe.

What inspired you to address this problem?

Seeing mask drives and people helping to deliver groceries to vulnerable people, I also wanted to contribute to my community and got the idea to create a website that specialized in addressing problems that arose due to COVID-19 in order to centralize people's problems and people's desire to help their community in one place.

Describe your idea and functionality:

My idea is to make a website to centralize people's problems because people might have several types of problems that they need help with, and having one place to make requests could simplify the process. The requests made would be sorted into categories, and others could accept those requests and deliver groceries or donate to an organization. There would be five sections to select from:

- 1. Contact Tracing: Organizations specializing in contact tracing, as well as a link to a Coursera contact tracing course so that people know how to do it.*
- 2. Groceries/Delivery: People could look at requests and see details like the locations they would need to travel to and an item list.*
- 3. Education: People can see requests for tutoring.*
- 4. Community: Volunteering events like food drives are here.*
- 5. Donation: People can see organizations they can donate to.*

The user's profile would be shown on the side so that they can see what requests they've made or accepted and an area to make a request.

Team Members:

Links:

<https://youtu.be/v6sLjENAgmo>

9th

COVID-19 Evolution AI Text Insights

Siri Nellutla

The Hotchkiss School

Community, Health

What problems are you trying to solve?

There is a vast rush of information such as scholarly articles and research papers about the novel coronavirus's evolution that people currently do not have time to read through.

What inspired you to address this problem?

I have never experienced anything like the current global pandemic that we as society are fighting right now. The scientists and health care workers who work tirelessly for their nation and for the world with their sense of obligation and compassion are the people who inspired me to address this problem. I felt helpless staying at home in quarantine without making even a fraction of an impact they make on a daily basis. As someone who is fascinated with the science behind genetics, I wondered whether I could help researchers understand the research done by other researchers in a timely manner.

Describe your idea and functionality:

The vision I have of my computing submission involves the usage of Natural Language Processing (NLP). NLP is a branch of Artificial Intelligence and Machine Learning that can make sense of language and develop a sense of meaning in text or speech that it analyzes. The program would search through the scholarly articles and literature online about COVID-19 (i.e. has it in their title) and identify which texts are relevant to the evolution of the virus. I believe that if I executed my idea, it would return valuable insights from the data.

Team Members:

Links:

9th

Help our citizens in stores

Eric Eltman

Vinal Technical High School

Businesses, Community, Health

What problems are you trying to solve?

During these times I have noticed that not alot of people are going to stores. Such as older citizens and ones that are at risk of getting the virus because their body's system. I think their should be times set where older citizens have the right to go into the stores before others like before 7:30am where they are able to do shopping around people their age and do not have to worry about little kids running around or more people around each other. For some people it is the only time they get out of the house even before the virus and when everyone rushes to the stores because people want to stock up or whatever they are invading their time they always go or if they go to get a few things and everything is out i just feel everyone should have a fair chance to get supplies they need.

What inspired you to address this problem?

Seeing a lot of people get alot of one thing or multiple items in bulk and people not being able to get any that is why their are shortages. There won't be as big of a demand if people understand not every ones getting what they need and its not right.

Describe your idea and functionality:

Putting a time where people 65 and over are able to go to a store before 7:30-8:00 o'clock because they sometimes have a disadvantage if they have a disability or are unable to do certain things. They won't want to fight over things if things are not on the shelves later in the day at least they will have a chance in the mornings.

Team Members:

Links:

9th

AP-19

Alisha Paul

Southington High School

Community, Education, Health

What problems are you trying to solve?

This application targets three major issues. I figured that one clear problem is that many struggle with social distancing and staying at least six feet apart as recommended by the CDC. Plus, it is extremely important for society to be educated about the disease. Finally, during this period, many people struggle emotionally and mentally as everyone's lives have changed drastically.

What inspired you to address this problem?

I was inspired to address these three problems because of personal experience. I went grocery shopping with my father towards the beginning of May, and it was my first time at a store since quarantine started. I noticed that many people did not pay attention to the tape on the ground in the checkout line that were marked six feet apart. Some areas of the stores did not even have markings in the first place! Furthermore, the people checking out our groceries and the customers were definitely not six feet apart, and there was no type of barrier to ensure the safety of the people working behind the counters. I figured that people were unconsciously not social distancing, which could spread the coronavirus even further, but that many people would refuse to use apps that track their location and interactions due to privacy issues. Secondly, every time I look on the news, there are so many different sources, and many different perspectives of the virus. Because there are many sources and news stations, there is a large amount of unreliable sources, and it is important for society to be educated about this virus. Finally, I have a friend who started struggling with depression and anxiety when quarantine started because her life changed drastically and she hasn't seen her friends and peers in such a long time. This incident made me realize that everyone's lives have changed drastically because of COVID-19, and social interaction is a part of human nature, so people need help mentally and emotionally during this time.

Describe your idea and functionality:

First, as long as the application is open, the phone automatically sends out radio waves and senses radio waves from other phones with the app open within six feet. If the radar senses a radio wave sent from the app on another phone within this distance, both phones will make a sound, alerting the two people to move further away from each other. This would avoid the privacy issue, as the app only senses waves from devices at a distance, and would not track the location or interactions of other people or their devices. Radar apps, like Radarbot or Cobra iRadar, which alert people when there are police speedometers, exist, so altering it for assisting people during the pandemic is feasible. On another part or window of the app, there is a place for news from the CDC and other trustworthy sources about COVID-19. On the final window, people can group FaceTime and have ways to meditate and get therapy if necessary. Also, the app will alert people at certain times to wash their hands.

Team Members:

Links:

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Digital COVID-19 Zones in CT

Satvik Kasinadhuni

Farmington High School

Community, Entertainment, Health

What problems are you trying to solve?

Lots of people are now starting to go to beaches, parks, etc. which can make people more vulnerable to the disease because they are public places, and eventually it can make the curve go higher and higher in a short amount of time, instead of flattening the curve.

What inspired you to address this problem?

Many of our friends have now started to go outside to parks, beaches, etc. where it may be hard to practice social distancing and you can expose yourself to the disease more by going outside. So many people are doing this, and it is not safe at all because this can cause the curve to go very high in a short amount of time. We wanted to use the power of Computer Science and programming to solve this problem and help everyone stay safe.

Describe your idea and functionality:

Our app tells you if it is safe or not to go to the places you want to go. For example, let's say I want to go to a beach in Milford. I can go on this app and search up the beach that I want to go to. Then search results of that beach come up and I will select that beach. When I click on it, I can see the range of COVID-19 cases that are in that town and also the number of COVID-19 cases in that area as well. Depending on the number of COVID-19 cases, it tells me if the beach is a "red zone", "yellow zone", or "green zone". A "red zone" is if there are more than 50 cases in that area. A "yellow zone" would be if there are 20-50 cases in that area. And a "green zone" would be if there are 0-20 cases in that area. We coded our application in Python and used the Tkinter GUI Library to create the widgets and the screen on our app. We also got data from a site that shows the amount of COVID-19 cases in each town in Connecticut. For the locations, we used data from Google Maps.

Team Members:

Samanyu Kasinadhuni

Links:

9th

Medicine Drones

Martin Echevarria

Windham Technical High School

Health

What problems are you trying to solve?

To provide patients with faster access to their medication and medication refills.

What inspired you to address this problem?

Throughout this pandemic it has been hard to get my own medication and I think this would help make things faster. Being able to get your medication fills and refills directly to you instead of waiting for pharmacies to fill them or even have to wait for them to order the medication. This way it is provided directly to your house.

Describe your idea and functionality:

My idea is a medical drone which would allow the doctors to put in the medications directly to the drone and it will be delivered directly to your door step. This will also work with refills. This idea would make it ideal throughout this pandemic and everyone that needs medication can have it right then and there instead of getting sick because they have no medication.

Team Members:

Links:

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Corona Aware

Hadley Drever

Ridgefield High School

Vulnerable Populations

What problems are you trying to solve?

People might not know that they have the virus and if they do get it they might not be sure of what to do. If they don't have anyone to help them, it can result in them spreading the virus.

What inspired you to address this problem?

People don't know that they've gotten the virus right away, might not know where they can get help, and might not have anyone to help them. It being a free app on your phone can also help as it wouldn't cost anything.

Describe your idea and functionality:

It would be an app where you can track your health such as your temperature and symptoms on a daily basis so that if you do contract the virus you can know early. The app would track where you go and tell you where highly populated areas are and when they are the busiest so you can avoid them. It would also tell you where places are that you can get tested and treated in case you do contract the virus or are concerned that you have. It would also be able to connect you to people that would be able to help with groceries and things of that nature in case you don't have anyone to help you to avoid spreading the virus further.

Team Members:

Links:

9th

ServiceNow

Grace Miller

Newtown High School

Businesses

What problems are you trying to solve?

Small businesses are struggling to survive the pandemic without a steady stream of customers.

What inspired you to address this problem?

For our community, there is a Facebook page where people recommend certain restaurants, and post information about businesses. I wanted to kind of broaden this and make a similar platform for people and businesses in other areas.

Describe your idea and functionality:

My idea is to have an app/platform that allows businesses to input information such as phone number, hours, menu, and other essential information, which will then be displayed to other users. Then, a user can input their general location, and the platform will display the businesses' information and possibly sort the businesses by type of service (restaurants, grocery stores, retail, etc.). Almost like an interactive list of businesses.

Team Members:

Links:

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In the Know with Covid-19

Nicholas Tetreault

Newtown High School

Businesses, Community, Health, Vulnerable Populations

What problems are you trying to solve?

After being in lock-down for several months, it is beginning to take a toll on the country. This is a tough problem to address, though, given that Covid-19 is still spreading rapidly throughout the country. In order to expedite the process of opening up the country, it is important to be in the know as to how to be safe when leaving the house. My proposal is to create a program, whether it be in the form of an app or website, that reports hot spots for Covid as well as dates for the reopening of business and public domains. By reporting these findings, people will now know which areas to avoid and how to go about their business while safely avoiding dangerous areas.

What inspired you to address this problem?

The unemployment rate in the U.S. is increasing rapidly and the economy is tanking. It is important that we reopen the country as soon as possible in order to remediate these effects, because the longer we wait the harder the economy will be hit. But I also recognize that we must go about this carefully given the nature of the virus and its contagiousness.

Describe your idea and functionality:

My computing submission would work by displaying an interactive map with marked hot spots. This map would be updated by user submission as well as public reporting of cases. It will also include informational articles and safety tips from unbiased sources in order to inform the user on how to stay safe and how to go about business safely.

Team Members:

Links:

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The Things To Know About COVID-19

Alexander Ambrosecchia

Newtown High School

Community

What problems are you trying to solve?

There has been so many things that have been said, and medicines that might cure the disease, and people not caring about social distancing. For those who want to know more about the COVID-19, I will be looking at both sides of people's opinions and finally, show which one in my opinion is the best way to defeat this disease

What inspired you to address this problem?

Media, there has been so many different perspectives, and different looks. Different media sites make people believe them, even if the facts are false. It drove me crazy, and I want to do something about it.

Describe your idea and functionality:

The functionality of my app is to make the user travel to different articles, and make them create a opinion based on the facts, then I will below it share what I think in my app and what things to do and not to do

Team Members:

Links:

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Location finder

Jackson Clavijo

Newtown High School

Businesses, Community, Health

What problems are you trying to solve?

The problem I am trying to solve is stores and restaurants to get full with people

What inspired you to address this problem?

What inspired me to address this problem is now that we are beginning to reopen businesses slowly there could be a problem where there are too many people in one place

Describe your idea and functionality:

My idea is to get stores and restaurants to set a limit on the amount of people that can be in the restaurant or store and then to go on a website and update the number of people that are currently inside and once the limit is reached they can say that the place is full. This would help prevent places from getting too full and also let people know what places are available to go to and what places are not.

Team Members:

Links:

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Head Count

Isabella Tuccio

Ridgefield High School

Businesses, Community, Entertainment, Health, Vulnerable Populations

What problems are you trying to solve?

To let people know how many people are currently in the place of business that they are trying to get into. With COVID-19 there are restrictions as to how many people are allowed in. This will solve the problem of wait times, and keeping control of what the demands are and lets the customer know when it is a good time to arrive. It will also solve social distancing requirements during COVID-19.

What inspired you to address this problem?

I was inspired to address this problem when we went to Whole Foods and we had to wait in a long line around other people in the rain. Also, a trip to Home Depot caused the same problem. I was wishing I had an app to know how many people were in the store before I left home. Had I known, I would have gone at a different time to shop, when it was less crowded.

Describe your idea and functionality:

My idea would be to create an app called "Head Count". Business owners could upload the data as customers walk in. At the same time, the customers could have the app and see Live activity of how many people were coming and going. The business owners would be able to see how and when they are most productive. The customers would be advised from their homes what the status was and if it were a safe time to go to their destination.

Team Members:

Links:

9th

Quarantine Schedule App

Robert Capron

FairField Ludlowe HighSchool

Community, Education

What problems are you trying to solve?

To relieve stress within students, teachers , and Worker's lives and make this quarantine easier for all of us

What inspired you to address this problem?

My parents inspired me to do this because we felt that everyone has had a busy schedule before, and sometimes it can be hard to keep track of all the work, and so I came up with an idea that can possibly ease the stress that can be on many of us during this time.

Describe your idea and functionality:

My idea is an app that assist anyone with a busy schedule or is stressed with a big workload,. the app has a place for students, teachers, and workers. you can schedule meetings and schedule the time you will do your homework or schedule class times for your students.

Team Members:

Links:

9th

CovidCalendar

Lia Florio

Ridgefield High School

Entertainment

What problems are you trying to solve?

The stress of entertaining children and keeping everyone's minds off of the virus is a very real struggle for mothers and families today. Many times, the motivation for going out to public places arises from the desire to simply be out of the house. With this new pressure that is likely to affect our lives for a while, it is extremely important for us and our loved ones to remain relaxed and occupied in order to stay safe and healthy during this pandemic.

What inspired you to address this problem?

I was especially inspired by my own family, who loves to browse at stores such as Target, TJMaxx, and Home Goods. I noticed that as these stores are opening, more and more people like us will go to these stores just for fun, creating a major risk for people that are there for a purpose. CovidCalendar will be an easy way for people to plan their days ahead and to stay productive while keeping public environments safe for those who don't have a choice to stay inside or not.

Describe your idea and functionality:

With CovidCalendar, users are able to plan their days using tips provided by the app to allow them to continue being healthy and staying indoors. Not only can parents that have run out of ideas to entertain kids benefit from this app, but teens who are overwhelmed by the excess schoolwork stress can plan their days as well. The organization of the CovidCalendar includes a planner-like structure with tabs that allow the user to browse the lists of boredom busters based on age group. Users can also create their own activities or tasks to add to their schedule that do not require them to go to a public place. Some ideas for activities that may be found on the app can be categorized by age group as the example below shows. I thought of a few ideas that my family and I have found to help us stay in the house so far, as well as a few that we would like to do soon.

Team Members:

Links:

9th

How To Jumpstart A Car

David MacDougall

J.M. Wright Technical High School

Automobiles

What problems are you trying to solve?

People don't know how to jumpstart cars when theirs are dying and my school J.M. Wright Technical High School is a trade school so it is good to know.

What inspired you to address this problem?

My teammate is in automotive and I'm in electrical so it's the best of both worlds, and our school J.M. Wright Technical High School said we have to do this for them, but they also said if we submit it here we would get an extra 10 points on our assignment.

Describe your idea and functionality:

People will now be able to jumpstart their cars if they didn't know how to.

Team Members:

Eddie Verduzco

Links:

9th

Covidconsultor

Sai Koppu

South Windsor High School

Community, Health, Vulnerable Populations

What problems are you trying to solve?

A lot of people, more than we know it, are really not taking the virus seriously. People are going outside, contacting people, but they need to know to not do so. The more outreach that we can get to the public on this virus, and this issue, the more that we can contain it and then get back to our normal lives. This app is also useful for people who are getting scared because they got sick, but they don't know what exactly to do. An app is always convenient for someone to pull out on their phone and quickly answer a couple of questions to find out if they have COVID-19 symptoms and also what they should do after.

I was also researching some data about how many people really wore a mask when they were outside, who were following the proper procedures and also if everybody knew what they had to do after they were exposed outside to somewhere. It would also be useful to find the age group that was really the core of the problem, and then address the issue in their regards.

What inspired you to address this problem?

The inspiration for this app comes from me seeing first hand outside how people are still gathering together, and people also freaking out about the virus without really knowing what it is. I see so many conspiracy theories and rumors that are fake on social media platforms, which people really believe. We need to give the people a proper app so that they have access to all of the details, information and procedures on their fingertips. I thought that my app could really provide a positive impact to the community and it would help to reduce the amount of people contacting COVID-19 outside.

One of my personal situations that I have encountered is one of my friends not wearing a mask while we were going on a bike ride, and it was shocking to see that people really didn't follow the directions and were careless to even worry about what would happen if they didn't.

Describe your idea and functionality:

COVID-19 Scanner:

The scanner feature of this app is the main portion of this app, and I think that it will involve a little more logic. I have a basic overview in my mind which I will share. I think that we should first make the user answer a couple of questions, which would include the symptoms, if you have been exposed recently, and then under the hood things. After getting all of the answers, I would put all of the questions that were yes or no questions by using a dictionary and then assigning a boolean value to each question, true or false. Depending on how many trues were there, we would assign different future steps. The suggested future steps would be depending on the percentages that I got from the questions. I would tell them 3 different things to do, stay at home and don't go outside for a while, call a doctor and describe your symptoms, or head to the emergency room to get tested for COVID-19 if you have severe symptoms.

Team Members:

Links:

9th

How technology can stop coronavirus

Stephanie Rivera

J.M Wright Technical High School

Community, Education, Health

What problems are you trying to solve?

The problem we are trying to solve is the lack of information that people have been receiving and to inform people of ways that they can help. This includes informing people of what coronavirus is, how you can protect yourself, and even ways that you can use technology and your computer at home to help researchers.

What inspired you to address this problem?

What inspired my teammate and I is the research project we received from our english teacher. We used the Big 6 Research Process and decided on our own topic based on coronavirus and our trade is information technology, so we decided to find something tech related to coronavirus and we found supercomputers.

Describe your idea and functionality:

We created a website a website that includes information about coronavirus and how to be cautious, as well as super computers and different forms of technology that are being used to learn more about coronavirus. The purpose of the website is to inform people everything they need to know to be safe and how they can help researchers by using their computer.

Team Members:

Dilia Carillo

Links:

9th

Medi Tent

Trey Holley

Windham Technical School

Community, Health

What problems are you trying to solve?

The problem im trying to solve is to have a lot of stations like tents with medical equipment and medicine and testing stations also surveys on how people are doing.

What inspired you to address this problem?

What inspired us was how a lot of our friends were doing things with robots and drones so we didn't want to to the same thing and i was thinking about some other ideas and this was one of my first ones

Describe your idea and functionality:

It would a be a medium size walk through tent with a survey station a locked medicine cabinet of some sort a testing station for the virus and other medical necessity's. for wounds and etc.

Team Members:

Brandon Ingles

Links:

9th

Medi Tent

Brandon Ingles

Windham Technical High School

Community, Health

What problems are you trying to solve?

The lack of resources in the area. There is usually only one tent in the area.

What inspired you to address this problem?

The lack of resources. For example there is only one tent in my area this idea would help there to be more production. It would also help waiting; you could get thru quicker with more tents

Describe your idea and functionality:

A medium size walk thru tent with different medicine and other things for the virus.

Team Members:

Trey Holley

Links:

9th

covid brainstorm

Jimmy Gallo

Ridgefield High School

Community, Entertainment

What problems are you trying to solve?

The lack of creativity between people and also the lack of exercising in new ways for people that are not staying in shape and people who are not becoming creative during these times

What inspired you to address this problem?

This is an idea for people who are getting bored during quarantine, and this will cure people's boredom by showing people what others are doing during quarantine so people can find new ways to have fun.

Describe your idea and functionality:

The idea will be based on a social media such as Instagram or Twitter. People will have the website to post things that they have done during quarantine to share ideas with others.

Team Members:

Links:

9th

Covid-Clock

Patrick Llewellyn

Ridgefield High School

Health

What problems are you trying to solve?

The problem being addressed is people don't think that they will get the coronavirus. Others just forget what they can do at home to not get sick. Having a reminder to do important things and stay safe could help people remember what is going on in the world.

What inspired you to address this problem?

My inspiration for this idea occurred when I was in the car. I was thinking to myself "How can people be reminded how to stay safe." Then I thought that if people had a reminder that would pop up on their phone, they might remember to do some important things.

Describe your idea and functionality:

The Covid-Clock would give you a reminder on your phone every couple hours saying things such as "Have you washed your hands today," "remember to not touch your face," or exercise can help you flush bacteria out of your immune system." The Covid-Clock would be in the alarm app, however it is optional. The app will also track your location so it can tell you what to do accordingly. The app would send notifications at 10am, 12pm, 5pm, and 8pm with washing your hands and not touching your face in all of them. The one at 5pm would remind you to exercise.

Team Members:

Links:

9th

Covid-19 Song

Harrison Pratt

Ridgefield High School

Education

What problems are you trying to solve?

The problem that I am trying to solve is people lacking in knowledge about Covid-19.

What inspired you to address this problem?

This inspired me to do this because I have seen many people not follow the correct safety precautions to help prevent them and others about this virus.

Describe your idea and functionality:

My idea was to make a song that people could listen to about Covid-19 to make sure they know the safety precautions they should be practicing and certain statistics about it.

Team Members:

Links:

9th

COVID-19 Awareness

Robbie Hinkle

Ridgefield High School

Health

What problems are you trying to solve?

Trying to keep as many people safe as possible. I included which age groups have been most affected, why more men have died than women, how to stay clean, and what activities are safe right now with COVID-19

What inspired you to address this problem?

Someone I know who was a healthy 30 year old passed away. He was not someone of the age group that everyone is talking about, so I wanted to spread awareness that everyone can be affected by this, not just the elderly.

Describe your idea and functionality:

It is a website with graphs, links to articles, and some of my own input and opinions.

Team Members:

Links: