



# HACK THE CRISIS CYPRUS

## PROTOTYPES



ORGANIZED BY:

hack {cyprus} 2020



# COVIDA GAMER

## Description

"Covida-Life Online is a 3D game (prototype) in which each person can move around Covida-Life environment and enjoy all the everyday fun things he would do in his everyday normal life. Currently the game has only 3 facilities: shops, where you can make your online purchases through different online shops, information center, where you could get informed about the virus from TRUSTED web sources and not become a victim of misinformation and entertainment center, where you and your friends can dance, enjoy whatever music you would like and even get something to drink.

## Presentation:

[https://drive.google.com/file/d/1MkKivqs8BDk5r5YCyIOD9\\_uDZAqBqy4q/view](https://drive.google.com/file/d/1MkKivqs8BDk5r5YCyIOD9_uDZAqBqy4q/view)

## Technology Used

"Unity3D, C#

## Video

<https://www.youtube.com/watch?v=auLON-9Am8&t=1s>

## Link to prototype

<https://drive.google.com/open?id=1s0OgEq0NvILRrcPYRVI-AkxtfmX-SDJJ>



## MIAMI IRON CREW- CROWDFUNDING

### Description

A platform that helps small local businesses, that are struggling financially, and at the same time helps people have a better time during social distancing.

### Features:

- Chat rooms are created for each business, where people can e-hang out with other patrons, keeping the flame alive until they can once more visit in person their favorite places.
- Donations can be made to support the businesses.
- Gamification features, to give an additional incentive to the people to use the platform.
- In collaboration with the businesses, there could be some rewards for their loyal customers.

### Presentation

### Technology Used

Angular, Socket.io, GraphQL, Nodejs, Mysql

### Video

<https://youtu.be/OFPdMJJQfmo>

### Link to prototype

<http://hackthecrisis.cf/>

# CLICKADOC

## Description

A Healthcare Telemedicine Application for Cyprus named Click A Doc. Click A Doc is designed both for safety and convenience allowing doctors to take care of their patients remotely from the comfort of their homes. Click A Doc is also a key response to the Covid -19 pandemic since it can offer a massive upgrade to the existing remote examination options that unfortunately leave many patients on the waiting line.

Click A Doc covers the entire patient journey, from first consultation, to diagnosis, to prescription and treatment and it incorporates the following features:

- Live Consultation with a doctor via chat or video, anytime anywhere helping reduce recovery time of patients by avoiding unnecessary commuting and queuing
- Medical history documented safely and securely including scans, appointment history and test results
- Check-up scheduling using a live calendar allowing effective health management and planning tailored to each patient
- E- prescription service with information about prescribed medication online through partner pharmacies and the possibility to arrange medication deliveries to the patients' door
- Data ownership/ safety to make sure each patient is the owner of their own data, allowing to determine who can or cannot access their medical records

Extension: Click A Doc has the potential to offer Smart Symptom Documentation to encourage preventative medicine through heart monitoring and other sensor detected information.

## Presentation

N/A

## Technology Used

The prototype only includes the mobile app. For the mobile app, the Ionic Framework 5 with Angular typescript is used.

## Video

<https://vimeo.com/404257451>

## Link to prototype

<https://we.tl/t-6hC9uBgOWN>



# SNITCH

## Description

A Web-based tool for visualizing movement activity based on the government's SMS lockdown service. The tool generates real-time analytics and keeps historical data that assist law enforcement departments with better decision-making and resource allocation, as well as assessment of communities' activities.

## Presentation

N/A

## Technology Used

Python3, Django Framework, PostgreSQL, amCharts, Highcharts, Google Maps, Docker

## Video

<https://youtu.be/noDIfISOxol>

## Link to prototype

<http://35.246.28.223:8000/?date=2020-03-30>



# MENTORDUGNAD

## Description

A streaming platform and community for 1on1 mentorship for Entrepreneurs, SMBs and others who need valid input to meet the uncertainty.

## Presentation

N/A

## Technology Used

Bootstrap / Laravel

## Video

<https://youtu.be/cdSZVHnJjWg>

## Link to prototype

<https://mentor.ismailshuaau.com/>



# THEWAYOUT

## Description

The concept is to provide a mobile application that will provide useful information to citizens about COVID-19. Specifically, citizens will be able to be informed about the exact locations where they can find help for issues regarding COVI-19 (like financial assistance, health assistance, etc.). Furthermore, in order to fight disinformation, the application will provide official news for the evolution of COVID-19, which citizens can have as a reference when they come across to fakenews.

## Presentation

N/A

## Technology Used

Android Application, Google Maps, RSS Feeds

## Video

<https://youtu.be/CJH7J7FMw4>

## Link to prototype

[https://github.com/pkosmides/thewayout\\_app](https://github.com/pkosmides/thewayout_app)



# HACKCOVID

## Description

Inventory Status Check of eCommerce shops and Big Retailers to provide fast discovery of truthful distributors of PPEs and essential supplies for Businesses and Direct Consumers, who needs it.

This is an aggregator, which connects customers and sellers in a one place

Works as follows:

- Choose a country
- See the list of eCommerce shops and big retailers, which operate in your country
- Choose a preferred product from the list, and visit the page
- Order a product on the page"

## Presentation

[https://docs.google.com/presentation/d/1VdtC\\_DCRChMF4S278z9X\\_a-Y2cLqCK\\_3nwt6-Co0z7l/edit?usp=sharing](https://docs.google.com/presentation/d/1VdtC_DCRChMF4S278z9X_a-Y2cLqCK_3nwt6-Co0z7l/edit?usp=sharing)

## Technology Used

Vue.js, Node.js, MongoDB, Dashblock, Browserless

## Video

<https://youtu.be/1j5xQypjrIE>

## Link to prototype

<https://app.hack-covid.com/>

## TEAMDISCOVER

### Description

One of the most important ways of tackling and slowing down the spread of COVID-19, is the constant monitoring of potentially infected or non-critical patients. The team consulted over 15 experts, including doctors, nurses, investors and manufacturers and they all agreed upon its importance.

Currently, nurses examine the patients from up-close and for the sake of everyone's safety, they have to change their protective gear after each examination. However, this cannot be fulfilled every time and due to time constraints as well, the number of routine check-ups - which should be hourly - drops down to 3 per day.

The solution of TEAMDISCOVER aims to lift the weight off of nurses' shoulders and keep them away from the patients during the monitoring, because by using the team's self-developed glass frame, patients can take care of the measuring themselves, without the presence of a nurse.

In the span of 24 hours the team created their 3D printed prototype glasses, which use publicly available, simple sensors. The low cost of 20-40€ for a unit opens up the possibility of equipping all hospital beds as soon as possible.

The design is simple and intuitive, and it guides the user with light and voice signals. First, the infrared sensor measures the temperature at the forehead, and thanks to the light signals, it can instantly be known that the measuring was successful and how the temperature status changed. The regularity of breath is measured with a microphone placed under the nose and the lights pulse accordingly. Finally, the most important parameters, the oxygen saturation and pulse are measured with a pulseoximeter placed on the side of the glasses

The data is then uploaded to the hospital's IT system, so that it instantly becomes available for doctors and nurses. If there is any error or false reading, alert signals could be sent to the nurses, to check up on the particular individual. This way nurses will have more time at their hands to deal with more critical cases, they need less protective gear and the chance of infection is also reduced. We trust that our solution can offer a safer and simpler alternative to all hospital workers around the world.

Doctors also noted, that this solution not only applies to the COVID-19 situation, but can also work in peaceful times. Another important path to consider is the use in personal residencies by the general public. Once hospital capacities will overload, people will have to get over the difficult periods at home and our sensors could help remote monitoring for GPs and emergency doctors.

### Presentation

N/A

### Technology Used

Designing the glasses: Autodesk Fusion 360

3D printer: FDM technology

Infrared sensor: MLX90614

Pulseoximeter for oxygen saturation and pulse: MAX30102



Mikrophone: HW-181

Microcontroller: Arduino Nano

### **Video**

<https://www.youtube.com/watch?v=ogVcSMN6pfA>

### **Link to prototype**

[https://github.com/mitle/hack-the-crisis-discover?fbclid=IwAR0\\_CtXl67ev1vZBG8LTVeHjv8WC4MSJkwFJbs1stwBEIQox1KY-mEjuvY0](https://github.com/mitle/hack-the-crisis-discover?fbclid=IwAR0_CtXl67ev1vZBG8LTVeHjv8WC4MSJkwFJbs1stwBEIQox1KY-mEjuvY0)



# GTFO

## Description

GTFO, an easy to install chrome extension which detects fake news/article related to COVID-19 in real-time and provides comprehensive information to the user with similar fake news or websites.

## Presentation

## Technology Used

Python, HTML5, CSS3, Javascript, JQuery, Flask, NLP, Google Chrome Extension, Restful API, Deep Learning.

## Video

<https://vimeo.com/404267431>

## Link to prototype

<https://github.com/navanil018/GetTheFakeOut>



# MIAMIIRONCREW

## Description

Platform that allows businesses or individuals to post product or service offers for other people to buy or exchange with services. The products can then be redeemed after the crisis is over, this way giving a small boost to businesses that can't work properly. The transactions are signed and validated on the Blockchain

## Presentation

## Technology Used

Angular, NodeJS, mongoDB, Docker, AWS, Ethereum

## Video

<https://youtu.be/Vos89UUWLag>

## Link to prototype

<http://ec2-15-188-65-146.eu-west-3.compute.amazonaws.com/>



# HOMEEO

## Description

More and more people everyday are working from home. The workplace is no longer the office space. The situation we are facing today with COVID-19 suggests that this is possible and potentially, inevitable. But staying home doesn't mean we have to drop all of our good habits. Homeeo is a platform that allows people to search virtual classes and join them from the comfort of their home. Professionals such as personal trainers, mental health experts, hairdressers, nail artists, storytellers and others will be able to create and schedule virtual livestream classes at a day and time of their choice. A virtual meeting room will be created using the "Zoom" live streaming service, and the link will be sent out to the attendees half-hour prior to the class's start time.

## Presentation

N/A

## Technology Used

Homeeo is a Javascript web app built using React. The Homeeo api (<https://homeo-api.herokuapp.com/>) is built using Strapi.io (Node.js & PostgreSQL). The project lives in a monorepo and is deployed on Heroku.

## Video

<https://vimeo.com/404290821>

## Link to prototype

<https://homeo-client.herokuapp.com/>



# WHAT2DO

## Description

This android app aims to provide people with creative ideas that can do while in quarantine. There's also a live display of current cases in Cyprus. While providing ideas on movies, series to watch and books or other things to read.

The main feature for me is that people will be able to provide their phone numbers and call each other so they don't feel lonely.

\* I didn't manage to finish it so currently its just a random activities app. But I plan to provide with more APIs and lists of shows, books, activities etc. I think it's kind of pointless as an application now but I just wanted to submit something I worked on. Not really needed to waste your time on it

## Presentation

### Technology Used

Java

### Video

[https://drive.google.com/file/d/1\\_mSzd\\_oUmgLVmRRyLPZXmyul0vANN8o6/view?usp=sharing](https://drive.google.com/file/d/1_mSzd_oUmgLVmRRyLPZXmyul0vANN8o6/view?usp=sharing)

### Link to prototype

<https://github.com/gpapav01/what2do>



# COVIDSOURCE

## Description

Crowd sourcing platform to organise efforts of those making and delivering PPE (Personal Protective Equipment) to those on the front line of the battle with the covid pandemic. Helps both those in need of PPE to request it and those that want to help to find what they can help out with, either with their 3d printers, sewing machines or even delivery.

## Presentation

## Technology Used

Laravel PHP, MySQL

## Video

<https://www.youtube.com/watch?v=XMY2gevJddA>

## Link to prototype

<http://phplaravel-328081-1212768.cloudwaysapps.com/>



# ONLAIKIAGORA

## Description

OnLaikiAgora brings the local marketplace online!

The COVID-19 lockdown means that these markets stopped operating, and producers have lost their route-to-market with their livelihoods now at risk.

At the same time, there is increasing demand for delivery of groceries to households as people avoid crowded supermarkets and grocery shops

## Presentation

[https://docs.google.com/presentation/d/1k6q2MYQ\\_00FoHe\\_MTcHiecKeyZnFC2GTWdAzjxDn7RI/edit?usp=sharing](https://docs.google.com/presentation/d/1k6q2MYQ_00FoHe_MTcHiecKeyZnFC2GTWdAzjxDn7RI/edit?usp=sharing)

## Technology Used

Bubble.io runtime (nodejs, postgres, redis and auto deployed/scaling on AWS)

## Video

[https://vimeo.com/404292940?fbclid=IwAR3PNePd3BKUvziPilhg7ythbsL6leBdQROOVVIWQDtxcGTC5oMFo\\_ptPAC](https://vimeo.com/404292940?fbclid=IwAR3PNePd3BKUvziPilhg7ythbsL6leBdQROOVVIWQDtxcGTC5oMFo_ptPAC)

## Link to prototype

<https://onagora.com/>



## OWN2020

### Description

Online food delivery services are on high demand. Many food providers (bakeries, catering) are losing revenue as they are not ready to provide delivery services. Even if a business hires a delivery service contractor, their communication would be problematic.

A platform is needed to offer online communication between customer, business and delivery service.

\*The work is still in progress. Not 100% working prototype unfortunately.

### Presentation

N/A

### Technology Used

Android (Kotlin), MVVM, Coroutines, UseCases, Android Navigation, Node JS, MongoDB, React JS, REST API.

### Video

[https://drive.google.com/open?id=1oaRcnttR8PwLjdFFgYbdca61gVvYP90sHm-InRe\\_olsI](https://drive.google.com/open?id=1oaRcnttR8PwLjdFFgYbdca61gVvYP90sHm-InRe_olsI)

[https://drive.google.com/drive/folders/1si4zMLzuCntTU4mRTwUPv3MQTNBz\\_-ps?fbclid=IwAR17fg7PI100-ZZuz5N3o851o98JVroAmDwPVQFI2C5OfkQpzhRWYVu8ljY](https://drive.google.com/drive/folders/1si4zMLzuCntTU4mRTwUPv3MQTNBz_-ps?fbclid=IwAR17fg7PI100-ZZuz5N3o851o98JVroAmDwPVQFI2C5OfkQpzhRWYVu8ljY)

### Link to prototype

<https://github.com/ant0n15/hackthecrisiscyprus>



# COMMUNITYHERO

## Description

In the past few days, we built CommunityHero, a web app to tackle a huge problem that all communities around the world are facing today.

The problem is as follows – the elderly, or those with past health problems, are more likely to die due to the Coronavirus, with mortality rates for the most vulnerable groups exceeding 20%.

Many elderly people live alone, and usually do the shopping themselves – however, as we know, going out to the supermarket carries significant risk. Online ordering and payments are supposed to solve that, but they're targeting the wrong market – these sites and online payments are often too complex for the elderly. To give you an example, my grandma doesn't even know how to add a contact to her iPhone – she can't be expected to order online and use PayPal or JCC. Another current problem is that due to the demand, delivery times for some sites are up to 5 days which is a significant issue and demotivates buyers from using online platforms.

That's why we built CommunityHero - to tackle all these problems and more. CommunityHero is an accessible grocery delivery platform, powered by your next-door neighbors, with the primary goal of keeping you home, safe and fed. With CommunityHero, shops can sign up and offer their products on our platform, and have them delivered by volunteers – healthy, young people who want to help their neighbors. CommunityHero is unique from all other delivery platforms in a number of ways, the most important being you can order via SMS.

In order to order via SMS, all that someone needs to do is register their delivery address, and send a list of what they want to buy. So let's say I want to buy milk, butter, spaghetti, flour and ouzo. I just type out the goods I want to order and hit send. This makes it really easy for our target market, someone like my grandmother, to order their groceries. Once you do this, our SMS center will reply back with the specific list of products added to cart, and a link to a personalized cart prefilled with all of the products you sent, where you can check whether they are correct, and edit the list, and finally click the ""Order!"" button.

We also have an alternative web app, that people can use to browse all the options available. This webapp is fully functional and implemented – you can go to supermarkets, pick your favorite store, add to cart the items you want to order, and click checkout. Just fill in your details and you're ready to go. This is just intended for other groups of the population, of course, since it has the same disadvantages that traditional delivery apps have. However, some people prefer that so we thought it would be right to add that as well.

On the delivery side of things, we have a webapp that volunteers can use to 'claim' orders. On that side, the position of the user (in this case a deliverer) will be shown on the map with a blue marker, and the position of all of the deliveries are marked with red. The user can select a delivery, and look at the contents, without revealing the name of the customer. The user can click on a 'Deliver!' button that redirects him to a page where a set of guidelines are shown. The deliverer must follow those guidelines to ensure the safety of both himself and the customer. When the deliverer reads through, and accepts those guidelines, they can press a button and finally they are able to see the order details, including the name and phone number of the customer, and all of the items on that order.



Our business model is as follows – the entire thing is community-driven, by people like yourselves and other volunteers we call “Heroes”. These Heroes sign up in advance for timeslots, so that we know how much capacity we have at any given time. When they sign up for their first timeslot, they receive a safety kit consisting of gloves and a mask. We also plan to partner with labs so they can be verified immune Heroes, and be prioritized when determining who will deliver to the most vulnerable groups, thus increasing safety. This can be done through antibody testing, since a big proportion of the people that were infected and recorded from COVID-19 are immune to it now. Therefore, they have a lower risk than anyone else, to both get infected but also infect others, and they should be prioritized.

Lastly, to cover costs such as the antibody tests, we plan to charge a small commission on each order on supermarkets.

Another innovation that Community Heroes have is what we call 'card on delivery': Traditional delivery options, allow either online payments, which as we said is not an option for everyone, and cash on delivery. However, using cash on delivery increases the chance of infection, since there is contact between the deliverer and the customer. To solve this problem, we suggest a payment option using phone attachments, such as the ones at the link here (<https://assets.newatlas.com/dims4/default/30ba1cc/2147483647/strip/true/crop/1500x1500+0+0/resize/1200x1200!/quality/90/?url=http%3A%2F%2Fnewatlas-brightspot.s3.amazonaws.com%2Farchive%2Fsquare.jpg>), which are offered by companies like Square. This device can accept payments by contactless credit cards through a mobile phone, which are a lot easier to use than online payments and eliminates the contact between the delivery person and the customer.

CommunityHero is an indirect competitor of all delivery application, such as foody, supermarket.com.cy, but also stores that offer a 'custom' delivery option. CommunityHero is a lot simpler to use and more accessible than every other delivery app, since it can even be used through something as simple as SMS. Also, CommunityHero is a lot cheaper, since delivery is done by volunteers and is offered for free. Also, the risk of infection is much lower.

### **Presentation**

<https://drive.google.com/open?id=1BMj2yn8oxz9EanCG0s16lXA4fsZBQyHP>

### **Technology Used**

### **Video**

<https://youtu.be/bmgnptaEhBs>

### **Link to prototype**

<https://46.251.98.58>