

SSD-COVID-19

The idea of the system is to quickly validate the risk of being infected analyzing the symptoms and epidemiology of the patient and after that quickly redirecting the patient to the proper medical treatment. It's not only the tool to give the patient information as hundreds of websites provides nowadays. It quickly leads to a help that patient needs, and shares real-time data to many other systems.

What problem does the idea solve?

1. Minimizing the spread of the epidemic by identifying new cases, leading them in the possible shortest way to appropriate medical care thus lowering the risk of transmitting the virus to other people.
2. Implementation of procedures allowing to overcome congestion in an overheated medical care system (through quick diagnostic paths).
3. Monitoring exact locations of infected people which, would allow to notice growing concentration of cases in specific areas, and predicting the spread on surrounding neighborhood.
4. Transmitting the data collected by the system directly to specific services (e.g. ambulance crew, epidemic supervising agencies, hospital reception staff).
5. Monitoring the health of the patient qualified for home observation.

Objective results

1. Relieve the medical staff.
2. Improve the safety of patients and their caregivers.
3. Shortening the time of diagnosis and referring the patient to proper therapeutic procedures.
4. Allowing to track the course of assistance provided by services and patients.
5. Controlling the spread of the epidemic by collecting the real-time data of the suspected and confirmed COVID-19 patients with their exact location.

Scale of impact

The impact on a current situation the society lives in will probably be essential. It aims to provide higher sense of security for patients and better efficiency of the whole care system.

How it works?

Coronavirus ... am I infected?

A patient needs help. There are so many websites about coronavirus, so many information in media. What am I to do? Am I already sick? I almost can't breathe..

No matter if you just want to know if you are infected or You feel sick and need a quick medical help.

You just click the link on the government or any other website: **Coronavirus ... am I infected?**

In about 1-2 minutes you follow few steps to get professional help or find the answers to your questions about SARS-CoV-2.

In first step the patient enters his/her symptoms (4 quick questions) and then in the second step he/she enters personal data: name, surname, personal identification number, telephone number and also a name and telephone number of a person to be notified in case of emergency. He/she must also agree for localization tracking. The algorithm analyzes your situation and in a second you get the answer of your state, you are redirected to professional care without searching websites where to go with your problem. You can do what the system recommends or just click the button to connect with proper emergency line.

Collected data are in real-time sent directly to specific professional duties (e.g. the closest to patient hospital receptionist preparing triage, ambulance crew if needed, and any analyzing data government agency like Sanepid in Poland).

It only took few minutes... the ambulance is coming, well prepared hospital crew is waiting for You without wasting your time at reception desk. Prepare your necessary personal items and wait. Keep calm, help is on its way.

The website/app connected to GPS tracking can in real-time show the patient location.

The system analyzes the collected data qualifying the patient to 6 possible further types of action as on the diagram below.