



Devvio

THE Enterprise Blockchain

<https://devv.io>

“Blockchain For Business”

Forbes

Devvio Coronavirus Tracker

Devvio can utilize its blockchain technology to track the Novel Coronavirus (2019-nCoV / SARS-CoV-2) and Covid-19, the illness from SARS-CoV-2. Epidemiologists and other experts on infectious diseases have identified contact tracking as a key tool needed to combat the coronavirus pandemic. Tracking has allowed some countries, such as Singapore and South Korea, to keep coronavirus transmissions at manageable levels. Devvio has developed blockchain technology that offers an innovative way to track coronavirus transmission while maintaining privacy for users.

Blockchain, and particularly Devvio’s scalable, cost-effective, and highly secure blockchain technology, is extremely well-suited to fill the need for a tracking solution for three reasons. First, it allows an individual’s locations to be collected while keeping that individual fully anonymous. Second, it is built for tracking large-scale, time-ordered data. Third, it can be deployed immediately. Devvio’s tracking solution is a powerful implementation, leveraging years of blockchain development. When a user’s location is correlated with Coronavirus hot spots (locations that are either known or suspected to have contributed to Coronavirus exposure), the system can report back to the individual. When individuals test positive, they can share their visited locations with the system and therefore with authorities, creating a valuable dataset for fighting the spread of the disease.

Location Tracking and Privacy

Using an app that works with iPhones or Android Phones, users can track their position whenever they are out and are around other people. All tracked information is encrypted in a user’s wallet and is therefore private. No one can access the information without the user’s permission.





Devvio's Technology

Devvio has created powerful blockchain technology that allows large-scale tracking of time-ordered data, a difficult problem with traditional databases. Perhaps most importantly, for location tracking applications, Devvio's solution provides privacy for users while still allowing for the reporting of urgent public health information.

Blockchain Implementation

Devvio has created the world's most scalable and cost-effective blockchain solution. Blockchain is an ideal technology for maintaining large volumes of private data. These characteristics make our technology ideal for tracking health related information.

Sharding Solution

Devvio's sharding solution allows parallel blockchain processing which is what makes our solution both scalable and cost effective. If more throughput is needed (for example, if more users are using the system in a larger geographic area), we simply add additional shards (networks) to handle the volume. Shards can be structured to fully comply with data sovereignty and GDPR regulations.

Privacy

Devvio's technology was designed from the ground up with privacy in mind. Devvio has a powerful Identity Management System that can be used to maintain a user's Personally Identifiable Information (PII) in which a user is in full control of how that encrypted information is used. It is the future of how personal information will be maintained in a free society.

Security

Devvio's technology represents state of the art security. We maintain security with a Byzantine Fault Tolerant system that uses distributed consensus to remove single points of failure.

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Hot Spots

Users can indicate that they feel sick, or that they have tested positive for Covid-19. When a user indicates that they feel sick, and if their reported symptoms match against Covid-19 symptoms, then locations they previously traveled become weighted Yellow Zone Hot Spots within the system. When a user is confirmed to have tested positive with Covid-19, locations they previously traveled to become Red Zones within the system, which are shared with authorities.

Hot Spot Correlations

A user can indicate in the app that they want to compare their known locations against Yellow Zones and Red Zones. The system then uses the user's private key to decrypt their locations and compares those locations against the known Red and Yellow Zone Hot Spots at any given time. If there is overlap of where a user traveled with known Hot Spots, the system can give a user an indication of likelihood of exposure. Users can indicate that the app should automatically perform this check at a given interval, while still maintaining a user's privacy.

If users know that they might have been exposed, particularly if they are starting to show symptoms of Covid-19, then they can be instructed to self-isolate using guidance within the app.

The app can also be used to tell friends, relatives, and acquaintances that they may have been exposed, when someone tests positive.

Hot Spot Determinations

Because the app can be used to create a clearer understanding of Hot Spots, officials can use the information to better combat spread of the disease. For example, if a number of people start to indicate Yellow Hot Zones, officials can determine likely Covid-19 infections more quickly, even before users have actually officially tested positive.

Maps can show Coronavirus transmission over time, and statistics can be used to learn details about how Covid-19 is transmitted, all of which is an extremely valuable resource for officials.

Additional Resources

The app can provide professional guidance and tips for users, such as information about diagnosing Covid-19, tips to prevent the disease's spread, and the latest government guidelines.