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<u>**Press release**</u>

Blockchain Corona Tracker starts

(Dr. Jianjun Cui/Wolfgang Blumenthal)

The first Blockchain Corona Virus App will be launched in May 2020. Designed as "Open Source Project COVID19", it will be available for free to everyone. The usage is voluntary and anonymous throughout.

At present, there is feverish work being done worldwide on solutions to contain the COVID19 pandemic. Dr. Jianjun Cui of bigtangle.net considers the blockchain to be the best and a proven technology to create a ambitious and working solution in this matter.

He relies on voluntariness and decentralization to significantly improve the security of users in epidemic or pandemic crises with the help of an anonymous tool (App).

The new app is an application in the bigtangle.net, which itself is a public blockchain with a number of integrated commercial applications.

It has integrated a decentralized identity solution to give secure identities to people, machines, algorithms and other non-human entities. It is thus able to anonymously track infection paths and inform users about an infected person and their contact persons. The Bluetooth technology from Google and Apple is used for data collection. Thus the contact circle of an infected person is limited to the relevant infection radius. All the security features inherent in a block chain come into play.

Public key as anonymous identifier

A public key serves as an anonymous identifier for collecting contact information. Every smartphone with this app sends a public address as an anonymous identifier over a short distance as part of the application technology, here Bluetooth. The contact information between the smartphones (Bluetooth active) of the users who encounter each other is estimated by measuring radio signals (Bluetooth etc.). Well tested and calibrated algorithms are used. The app uses only the recognized public key. The public key is time-stamped and stored in the app of the users encountering each other within the Bluetooth range.

Anonymity in handling with public authorities

A positive tested person discloses his public key to the testing instance (e.g. doctor, hospital, laboratory etc.). This is a common and uncritical procedure, because every doctor knows his patient. The test instance forwards the received public key directly to a competent authority. The authority (it uses the same app) sends a corona token to the transmitted public key. This way the

infected person remains anonymous via the app. The app thus has all public addresses that have been assigned a Corona token with issue date. Every user can periodically start a query in his app. The user can then determine whether he has encountered a positively tested user (public key only) within a relevant period (e.g. the last 14 days). If this is the case, there is a contact risk for him. The user in question can voluntarily send his public key to a competent authority and receives a Corona Risk token from that authority. The app thus also has all public addresses to which a Corona Risk token has been assigned. In this way, the official verification of a chain of infection is made possible, completely anonymously.

Safety during movements in public spaces

Users moving in public spaces are automatically warned via the smartphone if a positively tested user or a user with a contact risk is within Bluetooth range. This enables them to adapt their behaviour appropriately to a current dangerous situation. Once an infected user is cured, the Corona token is withdrawn by the authorities via the public key.

The app can be downloaded from the website bigtangle.net and used free of charge.

You can find the open source code of the app here:
https://github.com/bigtangle/bigtangle-app