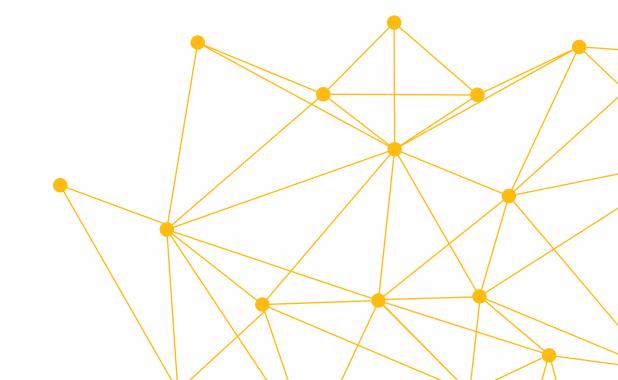
Medalte Whitepaper

Initiating The Revolutionized Medical World Implementing An Accessible AI and Blockchain-based Healthcare Service with High Privacy Personal Medical Data





Medalte's Mission

Medalte is a platform aimed at revolutionizing the medical world. Medalte was created to facilitate easier payments and also make your personal medical data more accessible and easier to be tracked with high security and privacy guarantee. Combined, this results in a basic quality payment system that allows anyone to access the benefits and health services instantly permitted by technology.

Medalte is built on existing patient data routing, and AI assist technology is immediately activated by the blockchain. With its simplicity of use, this is a major resource for anyone who needs support in matters of payment related to healthcare.





The modern healthcare system revolution has entered the world!
Building health service utilities, platforms throughout the crypto economy and health services will benefit from and where people can participate in users and token holders.
Start to discipline yourself by checking the health of your body and establishing a healthy lifestyle.

Regularly check your personal medical data with guaranteed privacy and data security. Fasten your seat belt and get ready for joining Medalte as soon as possible. It is now or never!



ABSTRACT

Technology has revolutionized the way humans live their lives and solve the problems they encounter. The desired life is the realization of a life that has advantages in the form of effectiveness and efficiency from every angle. Health is one of the essential aspects of human life that is priceless. Therefore, it is crucial to emphasize the ease and accessibility of health aspects. The use of a medical tracker and digital health services, in essence, indeed greatly enhances the effectiveness and efficiency of all people's needs of healthcare.

All rapid technological developments and digitalization in various fields eventually opened the eyes of innovators to digitize health services as well. Information technology-based health services then allow patients to consult with a doctor without meeting in person. Moreover, the sophistication of Al technology is ultimately able to provide individuals the best facilities and services in tracking the medical data of each user. However, it is not enough to generally use information technology to realize the perfection of this health facility. Thus, there appeared blockchain-based health services digitization to help oneself being more aware of his health.

Blockchain technology and AI assistance are able to overcome all the limitations of the human ability to deal with their patients to achieve healing, except for certain cases that really need special medical equipment and direct treatment from doctors and nurses. Given that blockchain and AI technology are indeed very functional in overcoming any difficulties, there is no doubt how blockchain and AI can become future heroes in health care. Blockchain basically offers a variety of potential benefits for human life, especially in maintaining data integrity and transactions. The management and control of each individual's health data are in the domain of the blockchain. Its superiority is able to revolutionize the order of healthcare systems in the future.

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Introduction



1 INTRODUCTION

The presence of Medalte can be the answer to the efficiency of accessing health services based on blockchain and Al. Healthcare service innovations in the internet era are now helping patients use their time more efficiently because they do not have to come to hospitals or health facilities to consult. Further, in the midst of a Corona pandemic that has not eclipsed, patients are strongly advised not to go to the hospital, unless there is an urgent need or an emergency. The act is done in order to reduce the risk of spreading the virus from Covid-19 patients themselves.

It is a perfect opportunity for the modern world to adopt digitalized health services because they are considered to be very efficient in reaching all geographical and time constraints. Medalte is one of the projects formed on the main results of the development of the health sector in the digital field, especially blockchain, AI, and cryptocurrency. This project has important goals and benefits, such as supporting clinical care, being a solution to distance and geographical obstacles in health care, cutting-edge innovation using AI and blockchain technology, and improving the quality of life and health of the wider community in the world.

Increasing times, humans need technology that allows patients to consult with doctors privately, without having to face to face directly. Consultation with a doctor helps patients get information about the alleged diagnosis, medication, or first treatment for illness or injury cases, to tips for improving body health. With changing patterns of life in the digital age, many sectors follow this development, including health. In fact, the World Health Organization (WHO), already has a specialized department related to digital health.

Virtual-based health services, in essence, have many benefits. First, blockchain and AI have adopted as technological tools to facilitate treatment control, such as answering questions about treatment that is being or has been completed by patients. Second, to make it more accessible for patients to find out the laboratory results precisely, especially if all results are read normally. Third, provide access to be able to consult with health workers from places that are difficult to reach. Fourth, make it easy for patients to get knowledge about simple medical procedures that can be done at home, such as first aid when diarrhea or injury. Fifth, provide advice and guidance on the medical specialization that matches the health problems experienced by patients, such as advice for a dentist's specialty or a pediatrician subspecialty. Sixth, cut lines in health facilities and make services to patients more efficient.

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Although there are still pros and cons that emerge from this profitable innovation, the blockchain and AI-based cryptocurrency project is a technological development inevitable. Regulations from the party of doctors and patient users are still being discussed, to find a middle ground that can benefit both parties. Going forward, the use of AI and blockchain-based health services and will continue to be designed not to replace visits to doctors, but as a companion to increasingly excellent, efficient, and undoubtedly appropriate care.

1.1 The Excellence of Blockchain Technology and Cryptocurrency as a Solution to Finance and Transaction Problems

The idea behind blockchain has been around since 1991, but the technology did not get much attention until the time Bitcoin was developed in 2009. Bitcoin or also known as the mother of cryptocurrency was invented by an individual or a group of people using the pseudonym Satoshi Nakamoto. Although, until now, no one knew who Satoshi Nakamoto really was; the technological innovations he offered made a huge impact on the way the world uses and creates money.

Most of the blockchain functioned as a distributed ledger that records and protects digital data through the use of cryptography. This technology is often applied to digital currency networks (cryptocurrency), but its decentralized nature and security also make it a powerful tool for many other industries. Blockchain gives internet users the ability to create value and authenticate digital information.



Amongst the many significant and serviceable functions of the blockchain, one of them is the protection of intellectual property. As many people know, digital information can be multiplied without limits - and widely distributed on the internet. Globally, this is the cause of a large amount of vacant content that is spread on the internet. The result gives a great loss to the copyright owner of the content. Smart Contracts can protect copyrights and automate the business of creative works online and eliminate the risk of copying and redistributing files.

Another benefit of blockchain technology is that transactions are fast and inexpensive. No need for the presence of a third party in the transaction process makes sending money much faster. In addition, blockchain technology makes you not have to pay various administrative fees that are usually charged if making transfers at different banks. But keep in mind, because it uses a single global database, transactions that enter the blockchain can be seen by all users. But not to worry, the transaction data contained in it will not be changed and remains safe because it has been chained with a security code.

In addition, blockchain also provides functions in terms of governance or everything related to governance. The technology of blockchain has the potential to massively improve governance in various sectors. By organizing networks and operations more democratically, fairly and safely, blockchain-based systems can be implemented as a way to eliminate electoral fraud and increase confidence during voting or other constitutional processes. They can also be used as powerful weapons against corruption, improving data integrity and tracking in a variety of scenarios, from collecting taxes to distributing financial assistance.

Through the globalization of the world economy, society's need for speed and security of financial transactions is increasing. It still needs a payment system that is quite reliable and easy for banks. The payment system is a payment that regulates the arrangements used for the delivery of payments through value transfers between individuals, financial institutions both domestically and globally. As the payment system authority for payment, the central bank divides two types of payment system instruments, namely, cash and non-cash. The instrument of payment of paper money as a means of payment transactions has many limitations. So it is no longer able to meet the needs of today's society.

Cryptocurrency has many advantages, especially in terms of speed of access; making transactions requires no more than 2-5 seconds under normal conditions.

This condition certainly makes it easy for people who are accustomed to using currency, bearing in mind to make every purchase transaction; it is necessary to provide money with small fractions, which of course, will be very difficult. The security factor of this type of electronic money only relies on standard data encryption to protect information stored on the chip and securing the cardholder so that it does not fall into other people's hands.

Communities need freedom in conducting financial transactions concerning payments without being faced with the payment system constraints of each different publisher. Of course, the hope is that people will not need to mess around with compatibility issues from different electronic money issuers. And besides that, the use of cryptocurrency technology is expected to help solve the problems currently faced by conventional/ governmental banks related to making electronic money standards. By making this electronic money standard, each issuer can be connected by using the same standards and paying attention to aspects of convenience, security, and speed.

Cryptocurrency arises as an answer to the problems faced by the current payment system that is very dependent on third parties as a payment product issuer company that is trusted to manage digital transactions such as visa, master card, PayPal, etc. Cryptocurrency itself is the call given to a system that uses cryptography to carry out the process of sending data securely and to carry out the process of exchanging digital tokens in a distributed manner.

Accordingly, cryptocurrency is created using the concept of cryptography. Cryptography is developed for online information and financial exchange activities and is a currency that cannot be pseudepigraphic because the security code is considerably sophisticated. Cryptocurrency is two words combined from cryptography, which means a secret code and currency, which means currency. Cryptocurrency is a series of cryptographic codes that are formed in such a way that they can be stored on a computer and can be transferred like electronic mail and may be utilized as a means of payment in a commercial transaction. Consequently, the urgency of blockchain and cryptocurrency in the world of the future is unquestionable.

1.2 Best Collaboration in the Medical Field with AI, Blockchain, and Cryptocurrency for the Advancement of Technology in the World of Health

Health service data may be safer with Big Data, AI, Blockchain, or Cloud Computing. However, like most things in health field, organizations and institutions must continue to follow up after appointing the right vendor and signing an air contract to protect the data in the very best manner. In recent years, cloud computing has transformed from options for healthcare providers to, increasingly, business needs. By outsourcing data management to cloud service companies, hospitals can free their technical staff to work closer to their core competencies.

All concepts to be included by health service organizations are information in the public cloud and trust, apparently in conflict with how sensitive the data is and industry compliance. However, for hospitals that are considering moving to the cloud, security remains a concern. Keeping biometric data safe is a big bet. If the customer's credit card or password information is compromised, they can get a new credit card and create a new password. But if health data are compromised, it is compromised forever: patients cannot change their allergies, blood type, or medical history.

Even though cloud platforms are deliberate safe, institutions that are concerned about security of the data could not be accepted just by calling cloud providers and calling every day. There are many additional steps organizations - most health care organizations - need to take their bases and make their patient data possible. One good reason to maintain an ongoing relationship with your cloud vendor is that security - and defense - interests continue to grow.

The use of artificial intelligence and data-based security monitoring with behavioral analytics has made cloud-based security in a way more effective. A precise example is Microsoft's intelligent integrated security chart that collects billions of data points every day and uses AI and machine learning to analyze and identify growing cybersecurity attacks and other dangerous cyber behaviors.

1.3 Towards an Extensive Data Analysis Framework for Smart Healthcare Services

The health sector can not be separated from the influence of advances in digital technology. The health industry needs to prepare itself for the era of health disruption 4.0. Various challenges and problems, especially in terms of big data, data security, regulation, and human resources, should not be an obstacle in creating a quality digital transformation system. The needs of hospitals that have been identified in focus group discussions along with recommendations addressed to various parties or related stakeholders are expected to be an effective solution to fix the various challenges that exist so that eventually all hospitals can be ready to participate in providing plenary health services in the era this 4.0 disruption.

We are building a system that has the advantage of being generic and can handle numerous situations like a disease diagnosis that come early and the detection of emergency. Medalte aims at introducing a new architecture that aims at handling extensive medical data coming from various sources in various formats.

Undoubtedly, new medical data is transmitted simultaneously to the batch and streaming layers. In the mode of the batch, information is collected in data nodes; then, transmitted to the semantic module that influences the meaning of the data using an ontology store; after that, cleaning and filtering operations are applied to the data generated before processing it. In the next step, the prepared data are analyzed through different phases: feature selection and feature extraction. Finally, the data prepared is used to design a model that predicts patients' health conditions in the future. This mode is requested periodically offline. In a flow scenario, data comes from various sources such as medical sensors that are connected to the patient's body, measuring several medical parameters such as pressure of blood. Then, the data collected is synchronized based on time, and missing values are handled.

Mobile phone.

At present, mobile phones are one of the most popular technological devices in the world. Compared to the beginning, cellphones were changed from basic communication tools to complex devices that offered many features and services.

They are currently equipped with several sensors, such as satellite positioning services, accelerometers, and cameras. Because of their wide range of capabilities and uses, mobile phones are an ideal candidate for the collection of health data that enables the design of many successful health care applications such as pregnancy monitoring, child nutrition, and heart frequency monitoring.



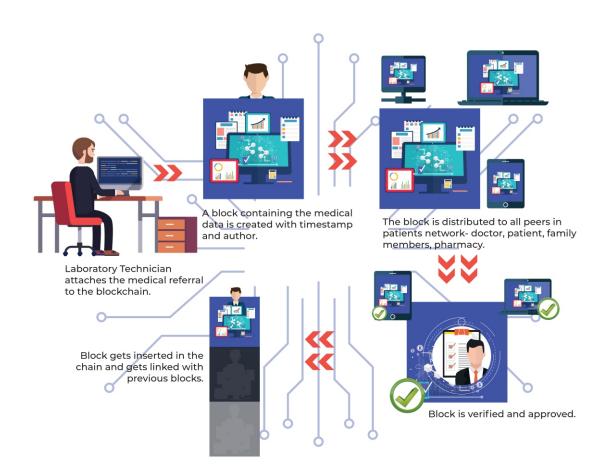
1.4 Easily Check Personal Medical Data with Security and Privacy Guarantee

The increase of the older people proportion in society throughout the world is quite surprising. Medalte aims to focus on the phenomenon known as human aging, which has many implications for health care, especially in terms of cost. In dealing with such situations, relying on a classical system can result in a decrease in the quality of human life for millions of individuals. With that being said, there is an urge to try to overcome this problem; many health care systems have been designed. Their general principle is to transfer, periodically, medical parameters such as heart rate, blood pressure, levels of glucose, body temperature, and ECG signals to an automated system that aims to monitor the patient's health condition in real-time. Such systems provide quick assistance when needed because data is analyzed continuously.

Automating health monitoring supports a proactive approach that reduces medical facilities by saving costs associated with hospitalization, and also improves health services by increasing waiting times for consultations. Recently, the number of data sources in the health care industry has grown rapidly as a result of the widespread use of cellular technology and usable sensors, which have flooded the health care area with large amounts of data. Therefore, it becomes difficult to carry out health data analysis based on traditional methods that are not feasible to deal with the high volume of diverse medical data.

In the context of health care, high volumes of data are generated by various medical sources, and that includes, for example, biomedical images, laboratory test reports, doctor's written records, and health condition parameters, enabling monitoring of patient health in real-time. In addition to the enormous volume and diversity, health service data flows at high speed. As a result, the big data approach offers extraordinary opportunities related to the efficiency of the health care system.

With all blockchain-based medical facilities and the sophistication of AI, Medalte's goal is to inspire people of all range of ages to pay more consideration to their own health for a healthier and higher quality life. By continuing to check regularly on their medical data, which is also always related to real-time by the system, Medalte guarantees the convenience of service with the highest security and privacy protection of personal data. Associated, users remain safe and need not worry if their medical data is stolen or misused by irresponsible people.





Medalte Token



2 MEDALTE (MDTL) TOKEN

2.1 Overview

The economy of cryptocurrency has presented us with a new way to build advanced distributed infrastructure using crypto tokens. People come collectively to contribute to something they really want, something that they genuinely believe in. Furthermore, as token holders, they benefit from growing value and utility.

Medalte platform is a medical project where people can easily access medical care, urgent medical attention in the case of an emergency, and pay for medical treatment and medications through the token in their app.

Medalte, through Medalte Token (MDTL), is developing a health service utility, a platform that will benefit the entire crypto-economy and health services economy and where people can participate in users as well as holders of the token.



MDTL will be distributed and firstly issued by designated distributors. Please keep in mind that MDTL is a crypto token that can be applied as a fuel that supports payment services provided by Medalte.

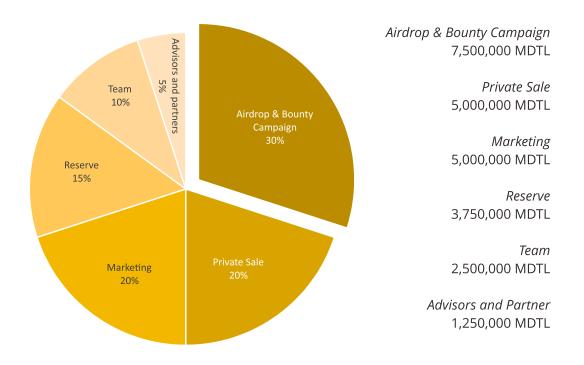
MDTL will be open to all health, financial, and other medical industry services. Medalte will not use MDTL or health service entities that wish to use MDTL for payments in business related to anyone, companies and organizations can use and use MDTL as crypto token such as Bitcoin, Ethereum, and any other cryptocurrency.

2.2 Spesification

Name of the Token	Medalte Token
Symbol	MDTL
Issuance Amount	25,000,000 MDTL
Pre-Sale of the Token Price	\$0.05/MDTL
Particulars	ERC-20 Ethereum-based Token

2.3 Medalte Token (MDTL) Distribution

Our significant clients - both private and corporate - will just automatically access all the services they need from one platform. The technology of blockchain gives the users the opportunity in order to make your finances faster in growing and provide better returns.





The Prosperities



3 THE PROSPERITIES

3.1 Individuals and Institutional Investors

Access to Great Technology

Medalte is a state-of-the-art building, high availability, and high-performance technology for free access to health services and basic health services. Patients now have free, fast and easy access to the option to make payments with health facilities



Reducing Risk

Medalte, through an integrated plan, to use current technology and MDTL tokens provide solutions that utilize the benefits of Blockchain and artificial intelligence to achieve efficient on-ramp for customers for health products and services.



World health services and products

With a decentralized health care system like this, traders and investors will be given special opportunities with obstacles posed by the increasing number of digital health services globally.



3.2 Holders of the Token

Medalte will also facilitate token holders with the following additional service:

Crypto accommodations

Token holders can lend their Crypto Tokens for a fee at Medalte. Doing so adds liquidity to the MDLT market by providing the inventory needed for MDLT. Health care providers, such as doctors who need to purchase goods and services related to their practice. This increases the MDLT's overall liquidity.

3.3 Innovators of Modern Healthcare Company and Financial Service

Society and the Whole Citizens of the World

Cryptocurrency and the underlying blockchain technology is the main facilitator for many applications, products, and services introduced as part of a wave of irreversible innovations that are currently taking place in the Health Services and Digital Health industries. This new wave of innovation, sometimes referred to as the "Digital Health Revolution," promises to completely disrupt traditional health services on all fronts. This will eventually bring better, faster, cheaper health services to everyone, including a world estimate of more than 4 billion without access to health services at all. There are also many doctors and health services who cannot get credit using traditional banking, due to lack of credit history and other reasons.

The global network of health services and Medalte health industry connections, regulatory licenses, and compliance/safety frameworks can fill the gap for many existing Digital Health models for domestic and international health services. We envision Medalte being the token of choice that can be used in the broader health care industry to strengthen health services as they migrate to a decentralized platform.



Roadmap



Q3 2020

- Listing on Top 20 CMC listed exchanges.
- Top partnership announcement.

Q1 2021

- Advancement of the blockchain control subsystem of Medalte Token (MDLT).
- MDLT integration with partner applications.
 - - App launch.

Q1 2022

 Development of new updated Medical Data App.

Q2 2020

- A total of 25,000,000 tokens will be generated during this period.
- Medalte will initiate Private Sale.
- Launching various airdrops with very promising and profitable rewards.
- Distribution of Tokens.
- Listing on Top 50 CMC listed exchanges.

Q4 2020

MVP of Medalte App

Q3 2021

 Integration with more partners in the field of modern healthcare and medical institutions.

Q2 2022

 Collaborate with internationalclass hospitals to integrate blockchain technology to improve hospital services and efficiency.