

Python White Paper

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Abstract

In this white paper, we talk about blockchain technology briefly and afterward explain the two most important cryptocurrency assets (Bitcoin and Ethereum) and their platform in blockchain network and how they work in solving blocks. Our project Python token is based on Ethereum network (ERC-20) and we explain some about our token and its goal, road map, expectations, specialists working in this project, investors, and so on. In last part of this white paper, team members of Python token will be introduced.

Keyword: White paper, Bitcoin, Ethereum, Python, PythonEX Exchange

I. Introduction

Today, cryptocurrencies play an important role in our life and have a deep effects in different parts of economies, societies and so on. We all are aware of this issue and day after day this effectiveness show itself more and more. Cryptocurrency is an internet-based medium of exchange which uses cryptographical functions to conduct financial transactions. Cryptocurrencies leverage blockchain technology to gain decentralization, transparency, and immutability. The most important feature of a cryptocurrency is that it is not controlled by any central authority: the decentralized nature of the blockchain makes cryptocurrencies theoretically immune to the old ways of government control and interference. Cryptocurrencies can be sent easily when you are at home or everywhere else and you dont need to do this transferring from the scratch . These transferring can be done with minimal processing fees, allowing users to avoid the steep fees charged by traditional financial institutions. Today cryptocurrencies have become an interesting phenomenon known to most people in all around the world. Cryptocurrencies can bring up in the global economic ecosystems in a large scale . Many countries are banned via international organizations or other powerful countries but cryptocurrencies bypass all of these issues and dont allow anyone to use money as a pressure policy. We can mention that many exchanges must control these problems by their policy becuase criminals use cryptocurrencies to launder in the globe. Nowadays, you'll have a hard time finding a major bank, a big accounting firm, a prominent software company or a government that did not research cryptocurrencies, publish a paper about it or start a so-called blockchain-project. We are in the first level of cryptocurrencies and many companies and groups are working on many projects developing blockchain software, hardware and so on. This field needs to be more investigated by universities and other organizations to overcome problems and to cause people to be familiar by blockchain meaning and its effects on our life. In cryptocurrencies you can see mining machines in different brands with different power consumption and hash-rates, you can see also wallets, exchanges, platforms, social groups and so on. You can be a part of crypto world. You can be a traders and analyze charts, indicators, osilators and etc. You can buy and sell hardwae machines or attend in marketing of crypto devices. Someone are willing to be a member of a project and exchange. Working on this field is unforgettable and you learn many thing from specialists of cryptocurrencies. As you know, there are many coins with low and high volume that are listed in famous wallets and exchanges and also there are many ICO projects. Many of these projects are introduced by groups, companies or students and vanish in days and months. Investors must be aware of these projects and study these projects and scrutinize closely not to waste their investment. Our team know this matter and are aware of all problems and solutions. We can refer to the most important coin and token in cryptocurrency world and refer them as a sample to explain, Bitcoin (coin), and Ethereum (ICO in ERC-20 token). The structure of the ethereum blockchain is very similar to bitcoin's, in that it

is a shared record of the entire transaction history. Every node on the network stores a copy of this history. The big difference with ethereum is that its nodes store the most recent state of each smart contract, in addition to all of the ether transactions. (This is much more complicated than described, but the text below should help you get your feet wet.) For each ethereum application, the network needs to keep track of the 'state', or the current information of all of these applications, including each user's balance, all the smart contract code and where it's all stored. Bitcoin uses unspent transaction outputs to track who has how much bitcoin. While it sounds more complex, the idea is fairly simple. Every time a bitcoin transaction is made, the network 'breaks' the total amount as if it was paper money, issuing back bitcoins in a way that makes the data behave similarly to physical coins or change. To make future transactions, the bitcoin network must add up all your pieces of change, which are classed as either 'spent' or 'unspent'. Ethereum, on the other hand, uses accounts. Like bank account funds, ether tokens appear in a wallet, and can be ported (so to speak) to another account. Funds are always somewhere, yet don't have what you might call a continued relationship. What is the ethereum virtual machine? With ethereum, every time a program is used, a network of thousands of computers processes it. Contracts written in a smart contract-specific programming languages are compiled into 'bytecode', which a feature called the 'ethereum virtual machine' (EVM) can read and execute. All the nodes execute this contract using their EVMs. Remember that every node in the network holds a copy of the transaction and smart contract history of the network, in addition to keeping track of the current 'state'. Every time a user performs some action, all of the nodes on the network need to come to agreement that this change took place. The goal here is for the network of miners and nodes to take responsibility for transferring the shift from state to state, rather than some authority such as PayPal or a bank. Bitcoin miners validate the shift of ownership of bitcoins from one person to another. The EVM executes a contract with whatever rules the developer initially programmed. Actual computation on the EVM is achieved through a stack-based bytecode language (the ones and zeroes that a machine can read), but developers can write smart contracts in high-level languages such as Solidity and Serpent that are easier for humans to read and write. In this paper we explain that our token is based on Ethereum platform and say about different aspects of our project, road map, goals, summarized technical information of Python token, team members and in last part has come conclusion. Now, you know main difference between the two most important famous cryptocurrencies Bitcoin and Ethereum. Almost, many of ICOs are based on Ethereum network and usually should have a goal for solving a problem and be useful and helpful for growing cryptocurrencies world. Our ICO has been launched to open a new view in this world and have a good solution. In a nut shell, we are here to change and make transferring fees and trading commissions better particularly for no wealthy countries. Software developers, advisors, professional traders, marketing groups all gather together to grow this project and to reach out to the summit as a rocket. We believe that a whitepaper lonely can

present an project briefly. We try to have a good communication with our own customers and announce our activities clearly in presented communities.



Figure 1. View of pythonEX

II. Reviewing project

Our goal is to become an useful and applicable token with hundreds of tokens listed on our future exchange, alongside additional features that can help anyone, from small entrepreneurs, merchants, and retailers to large enterprise businesses and developers, issue their own tokens to conduct fair and reliable crowdfunding. It is intended that these individuals and businesses will be able to raise the funds they need from trusted investors, and be provided with a platform to tokenize various products like loyalty points. People can easily trade loyalty points issued by a business for products and services they need, not only from said business, but from other businesses which have their loyalty points listed on exchanges. PYTHON Token are intended to be interchangeable with hundreds of merchants and service providers. We provide 24/7 support to facilitate your business in maintaining your assets, from handling all technical aspects, maintaining security, providing free publication and marketing, to assisting you on the listing of your tokens on our early future exchange, and on other exchanges. Collaborating with people interested in trading, major cryptocurrencies and new promising tokens will be tradable on our exchange PYTHONEX ,Figure [1] and other exchanges. We first decided to introduce this token to achieve our reputation in cryptocurrency world and next step is launching an international exchange. We are some graduated students from different top universities around the world especially Iran, gather together to do a different project. WHAT IS THE PYTHON Token? The PYTHON Token is a new form of utility digital asset or token that is built on ethereum Platform, more popularly known as ERC-20. It has been created to support a better, fairer and more reliant crowdfunding platform that can be used by anyone around the world. Businesses can compete on a global scale and fundraise to run their businesses through the issuance their own tokens on the PythonEX Platform. Anyone can become investors to support the projects in which they

are interested. Additionally, it is also intended that large companies, merchants, and startups can trade their loyalty points alike on the ethereum Platform in the form of their own tokens. It is intended that PYTHON Token are tradable assets, as well as a payment method to make payments easier, faster, and frictionless in a new futuristic world and cashless society. We plan to build a novel way so that anyone can help and offer small merchants, entrepreneurs, or even an 18-year-old kid with big ideas, a helping hand. We carefully select participants, analyse what they have, what they don't, and look ahead to their prospects in the future. As people with limited knowledge have had difficulty distinguishing between companies that are truly valuable and worthy of support from those which are not, we think it is necessary to build a token that is truly secure with high level goals. The ethereum platform was born from the desire to combat fraud, and prevent scams and unreliable organisations from trading with and taking advantage of legitimate companies. Our goal is not just to become a token just for gathering investments to rich ourselves and for crowdfunding purposes, but to become the biggest platform for tokenisation. With the our token, participants will be able to make investments and trade, business will be able to get funding, and a variety of products and services can be tokenised and become interchangeable across borders. The founders of this token are not newcomers to the cryptocurrency world. Two of our founders were professional traders of binance exchange for 3 years. we completely understand and know the challenges of businesses that deal with cryptocurrency transactions and network fees. We believe that the world is becoming more and more digitised and complicated, and that it is time to take a step forward and make a novel trading strategy in cryptocurrencies. We are choosing to target the Asian market based on the following considerations. Asia is a market with huge and ongoing growth potential. Asia is the largest and most populous of earth's continents and its located in both the northern and eastern hemispheres. Asia comprises a full 32% of the world's land area with 63% of the world's current population. It also has the highest growth rate today; its population almost quadrupled during the 20th century. Here are many potential to grow and to be rejuvenated. The estimated population for Asia in 2016 is 4.4 billion and it has already reached 4,504,428,373 by 2017. In Southeast Asia 1 alone, the total population has multiplied climbing to approximately 648,780,040. The median age in Asia is just 30.7 years, a young and 2 relatively open-minded demographic with regard to technology. We along with PYTHON Token and our future exchange are trying to combat the challenges of undergoing a token sale so that more people, even those with minimal technical skills, will be able to participate in a token sale and exchange . Some of the most common issues and challenges people deal with when they trying to generate their own tokens and undertaking a token sale include: • Legality Regulations, in many countries, are not yet clear regarding the sale of digital coins and/or ICOs. Though the fact is still debatable, undertaking a token sale can contain huge risks in the future. Legal support in this regard, especially from the relevant government(s), is costly, tiring, and time-consuming. Large and financially endowed entrepreneurs may be unable to pursue a variety of legal

options, but small companies are not likely to stand a chance.

- **Technology** Generating your own tokens for a token sale is a complex process and learning the technology involved could be a barrier to entry. The process is simple but not intuitive and brain-breaking, and is not as easy as learning simple software programmes. It is highly technical, novel, and there are not many programmers out there that have the expertise to take up such work; hence hiring skilled-workers could be a challenge and it is not simple to do
- **Security** Because of the potential vulnerabilities, hackers and penetration specialists have been known to exploit and attack token sale projects or ICO sale, especially those that are not securely guarded. Less experienced programmers are the easiest targets, their risk is even higher if they do not implement cold storage protocols.
- **Marketing** Most new entrepreneurs along with their team do not have strong business connections or well established networks to spread and introduce their project. Advertising and marketing may be a crucial drain of their financial resources. Looking to get listed in exchanges If you are getting positive reviews from news websites, being covered by the press, weblogs and papers and financial or crypto-media, and/or have a large fan base, the path to listing on an exchange is clear. For those who are just starting out, to be listed on cryptocurrency exchanges is a challenge and some time a dream. If you're just getting started, it may take your best effort just to remain in the competition and to stay up and set up the minimum business networks you'll need to eventually be listed and to do the first step. The road to getting listed in an exchange, particularly one with only a few customers, will be long and painful for a startup or new group without solid connections.

Sustainability In our opinion, if a token sale project has many investors, its tokens will likely be in demand. If a token sale project has few investors but the support of a substantial community, its tokens will likely survive for a few months. However, token sale projects that have only 1-2 investors, and the support of a small community, its tokens are not likely to be in demand or even known.

Designed for token issuers but flexible and accessible for all, the PYTHON Token provides the best solution for investors looking for new tokens to invest. You might think it is easy to attend in a token sale, but risky challenges are ahead for naive investors.

Taken from an article called "Open Source: Token Best Practice", written by Simon Taylor on 20 October 2017, the following is a (non-exhaustive) list of challenges investors often face during a token sale:

- **Lack of Standardized data to invest**, we need to know what type of project and ICO we're going to deal with and accurate, concise, clear information and other important details are vital for price discovery as well to understand the investment risk involved.
- **Understanding of Risk** In some cases, white papers can be misleading and may not contain details of the risk involved. Investors are reliant on whitepapers to fully understand a token or token sale project. Such papers however often reveal only the positive parts of the project and just encourage investors to invest, and gloss over the negative aspects or risks involved. When a paper is misleading, investors can easily be convinced to invest in things they do not truly understand. Without a clear understanding of the offering initial coin, investors may choose to attend trivial factors, including but not limited to the token sale project

being well-marketed. As with any new technological development, there is a significant risk of asset bubbles as investors overlook crucial details of a project in the search for yield. We are hardworker entrepreneurs with moderate investment to progress our project and to be one of the best. We dont like to show misleading or sience-fiction goals to investors. We are sure that we will win and say that python will get its goal in cryptocurrency world. PYTHON uses built-in proprietary methods to ensure all information provided is accurate and no significant information is omitted. We provide transparency for investors and are clear about the positive and negative aspects of a token, making it easier for them to make fair decisions when deciding to invest. We persian people have a proverb that says “ A word is before is worth two after”. Potential Market Manipulation Investors are often reliant on alternative sources of information – such as discussion forums – which are open to potential market manipulation. PYTHON is intended to address and inform this by only publishing accurate, real, and clear information. • Access to Secondary Markets Secondary markets are another vital tool for price discovery. Some tokens are issued with limited ‘lock-up’ periods where they cannot be exchanged on a secondary market and others are not. We provide direct platforms where tokens can be traded directly to major cryptocurrencies (such as BTC, ETH, and USDT) that are familiar and easy enough for investors to deal with. This project began by Ehsan Atash, he was graduated from a top university with grade A. He was an active software developer and an entrepreneur in blockchain, internet network and social medias, with good relationship with investors and reputable people. He gathered clever students and some investors to be successful in cryptocurrency so that result was PYTHON. With the PYTHON Token, dealing can be done within minutes. Individuals, groups, merchants and companies that wish to fundraise can invent their own tokens very easily with the help of PYTHON. In near future, it is intended that these tokens may be traded with other cryptocurrencies, and be applied as a payment method—if there are merchants that are willing to accept them. Alternatively, these tokens may be exchanged with products and services from the issuer in our next step we are not going to have airdrop and any plan for distriburing this token freely because PythonEX will help this token and support it. First we are trying to introduce Python via social medias such as twitter, facebook, instagram,blogs and sending our averstisements to interested people in cryptocurrencies. After that, we begin to send request for listing in some moderate exchanges and also coinmarketcap. This continue to launch our exchange in December 2020. According to our roadmap, pythonEX will be UP in December 2020 and trades will begin for pairs of BTC/ETH, BTC/PTN,ETH/PTN and bitcoin and etereum network mount in our exchange. In june 2021, Pythonex begin to increase pairs coins and accept ICOs of other new projects. We study their whitepapers and content of their project. A proposal should include the details of the tokens that is intended to be listed on the PYTHON exchange. Submitting a proposal requires a specific amount of PTN Tokens but we give it for 75% discount if this token can be listed. Proposals that are paid and sent to the PYTHON exchange will be carefully audited by our legal team and specialists in specific

areas before being listed and provided that the proposal is proven to be legitimate. The PYTHON team will provide full support and facilities needed by the applicants during the process of listing their tokens. With PYTHON , applicants will not have to worry about technical aspects on listing tokens. Every process will be guided by our team. Within a week of proposal approval, it is possible that your tokens could be listed and traded in on our exchange. The process of listing tokens is intended to be fast, easy, and error free. We handle all the technical aspects from the beginning until the end. You will not have to generate your own wallet or worry about cold storage, and the smart contract codes created for you are to the best of our knowledge safe and secure. First you can maintain your assets in myethereumwallet or infinito wallet and after that we list this token in our exchange. Friendly, Easy-to-Use Mobile Application PYTHON exchange is also intending to come up with a mobile application for both Android and iOS users which will be available for on Google Play Store and the Apple App Store. The mobile application will make it easier for a user to keep track of new tokens that are being listed on PYTHON, and allow you to trade tokens online. You will be required to login after you install the application on your device, using the same login combination you use PYTHON exchange. The process is simple but highly secure. Users have to option of setting up 6-digit pin number (or TouchID for iPhone users) afterwards to speed up your login process. With a user-friendly interface, you can trade anytime and anywhere you want only with a few quick taps and swipes. We try to make exchange easy-to-use and user-friend. After that, we go ahead according our roadmap published on pythonex.net. we are going to make contracts with some large markets and companies in some countries (we will declare thier names in next revised white papers), cost of these decision is available now. Thechnical team are working on making Python platform to to promote our token in Python exchange. We Encourage customers to buy PYTHON Token and hold them to have a [free](#) trading in our platform. PYTHON will launch an exchange platform to facilitate various kinds of token trading where any tokens can be listed in PYTHON exchange and people can exchange them freely easily. PYTHON will launch creating token services for public. People will be able to issue their own ERC20 tokens using the help of PYTHON, all the way from the technical aspects to marketing. Primary market for these ERC20 tokens will be available during this quarter. PYTHON will begin to accept clients that want to do token sales using PYTHON platform. Blockchain technology and cryptocurrency payments are growing at an incredible rate, and we believe this will be the way we pay for goods and services in the future. There are many ways to grow your business in the cryptocurrency world, and one of the most popular examples is by participating in a token sale. To make it as easy as possible for all consumers, we at PYTHON , aim to offer our users a one-stop token sale solution that facilitates the generation of customised tokens, and to provide new opportunities to investors and traders to participate in the cryptocurrency market. Blockchain and the token sale system has grown to become a new standalone ecosystem that is completely separated from the traditional economic system that depends on fiat currency. With this innovative new platform, we

plan to build a new economic system that is more equitable. With token sales, a wide range of individuals will have the opportunity to nurture their businesses, get requisite funding from trusted investors, and receive payments in cryptocurrency. We aim to help small entrepreneurs obtain funding through token sales without interference from other parties so as to promote small business growth and create a level playing field. Participate in our long-term growth and success story to fundamentally change the world of payments, crowdfunding and banking. Get your feet wet by joining the Python team. We look forward to welcoming you on board. We would like to thank anyone not directly mentioned in this Whitepaper for supporting and assisting us as we make our dreams a reality. We wish to thank the entire blockchain community for supporting the PYTHON team over the past 1 year.

III. Conclusion

To sum up, block-chain is future of our world and are improving days after days. Many are working hardly to get a vacancy in this large-scale technology. Python is one of this project trying to reach-out its goal and to be successful in blockchain. Python is going to be top-notch among many tokens and cryptocurrency assets. To revolutionize trading challenge, fees and commissions. To solve problems of transferring money and peer-to-peer deals having friendly and simple exchange. Our team work hard to achieve road map. We don't like to talk, like act and act. Making trading free, supporting ICO small projects, transferring assets easily and taking care of no wealthy countries are our goals.

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