

VERSIONIZE

ISSUE 2021 | JUNE



Articles

Decentralized Applications
Smart Contract
Ethereum
Am I Audible - The New Normal

Know The
Theme of Version'21

— FROM THE DESK OF H.O.D —

**“He Will Conquer Who Has Learnt The Artifice Of Deviation...
Such as The Art Of Maneuvering...”**

As I pen down this note on “VERSION 21” I feel extremely privileged to bring up yet another magnanimous face of VERSION – VERSIONIZE for the first time ever in the walk of VERSION since 1991. Looking down the lane, the journey of VERSION has been a stunning extravagant experience of a rollercoaster ride with a variety of themes ranging from perfection leading into new horizons of technology with the glimpses of seamless world of cybernetics, security and converging highly inter-operable open sources, from re-engineering the agile computing to SaaS and human augmentation... Its now time to witness “DECONSENTRO – DIVIDE TO CONQUER”.

At this juncture, I extend my appreciation to the Staff Advisor Dr.(Mrs.) S. Sangeetha for all the little and big ways you've pitched in to gear up VERSION 21. A special note of recognition to all the faculty members, student committee, editorial board members and all the students who have went above and beyond to make our vision a reality during this pandemic.

I am elated on wishing the entire team a sizzling success in all the endeavors.. Welcome you all into the world of technology...

Its Showtime!!



**Dr. PJA Alphonse
(H.O.D)**

— FROM THE DESK OF STAFF ADVISOR —

Dear Students

I am happy to interact with you through this magazine to highlight the technical activities released by the VERSION 2021 team, Department of Computer Applications, National Institute of Technology, Trichy. As a staff Advisor, I appreciate your great efforts to make Version 2021 a great success amidst the Pandemic. My congratulations to the Team.

Since its inception, our department is focusing on a good theoretical foundation through high-quality teaching complemented by extensive practical training and dedication to the mission of inculcating value-based, socially committed professionalism to the cause of the overall development of the students. Being the students of Computer Applications, you are always proving your technical and organizing capabilities through VERSION.

On this occasion, I want to convey a message to each one of you that apart from technical excellence, there are other factors that lead to a successful life and continue to be outdoing in your chosen field. One of the key mantras is Self-Satisfaction. Nothing can stop you from getting success in life if you are satisfied with whatever you do, be it Academics, Cultural, Sports, or Job, in every phase of your life. Keep this always in your mind to attain success in life. My best wishes to all of you.

With best regards



Dr. (Mrs.) S. Sangeetha
(Staff Advisor, VERSION 2021)

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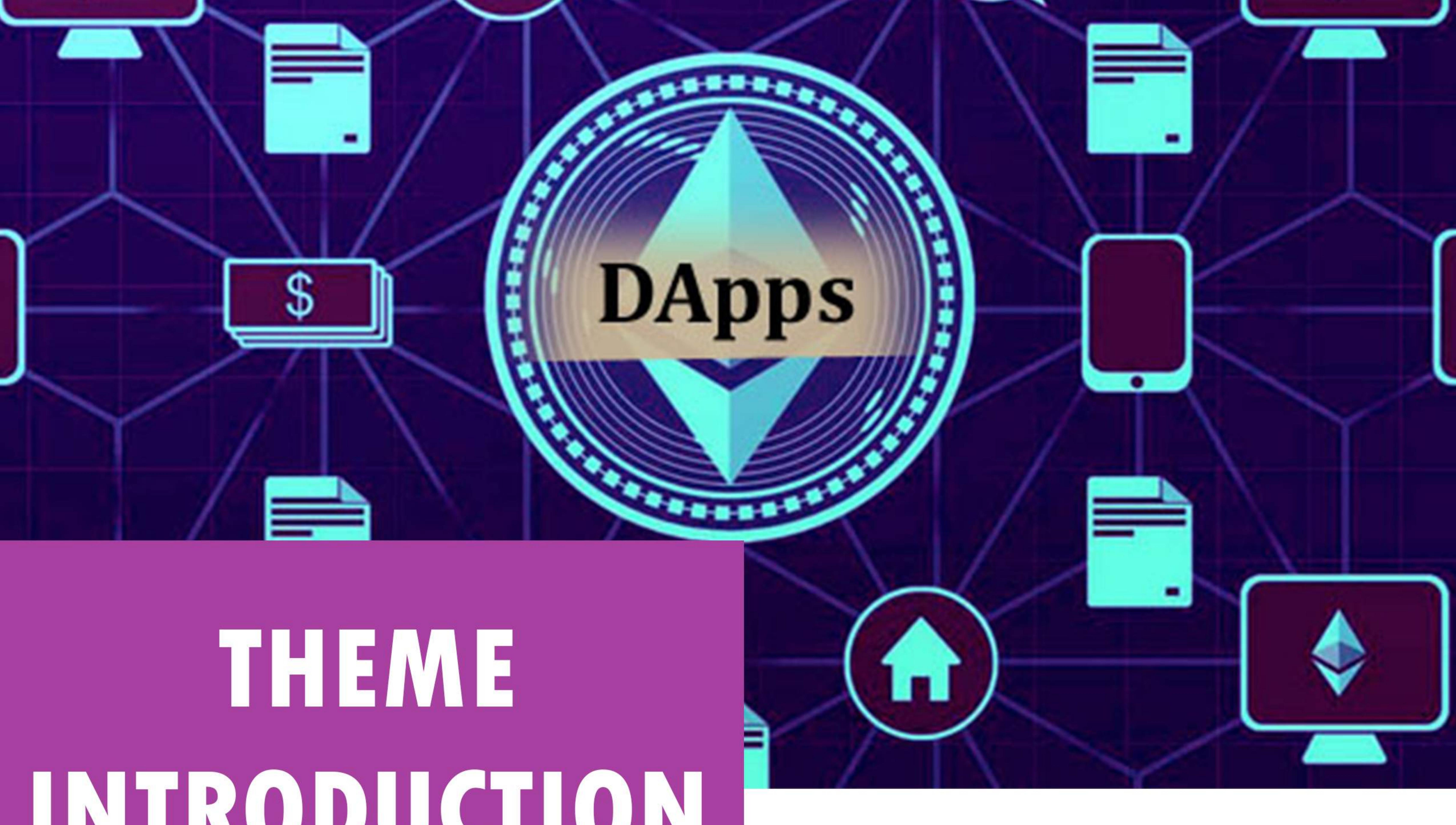
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Excercise Your Mind



VERSION, an annual All India MCA meet organized by the students of MCA, National Institute of Technology, Tiruchirappalli is one of the most renowned and remarkable All India MCA Technical Symposium.

Since its conception in 1991 Version is being organized successfully every year. It is a great honor to bring together all the students of MCA department from all over India under one roof of NIT-T where students showcase their talent, skills and potential. They fight to win, compete with enthusiasm and procure their precious knowledge. Version embraces the idea that inspire the students to think out of the box and expand their creative and mental ability.

Over the years VERSION was conducted within the campus. This year, we are organizing the 29th edition of VERSION. It is going to be in Virtual Mode i.e., online mode. We are putting in a lot of efforts to bring you the best platform and with your participation it will be a grand success. It is going to be a breathtaking showcase of the talent. With the current situation, conducting Version online could be a blessing in disguise, with a greater number of participants and hard work of us will make this year's VERSION, more competitive and fun. We are sure that you all will come across some astonishing and innovative events this year.



THEME INTRODUCTION

Since 1991 , Version is known for instigating something new, challenging every year. As the years have passed , We have always tried to work on the latest Technology so that Students not only get to know about the new technologies but also learn about their true potential. This year, we introduce you to the theme of Version 2021 "**Decentralized Application (D Apps)**".

DApps came into the limelight a long time ago. At first, DApps were brushed aside by the cryptocurrency community, but now the situation has changed.

Based upon the Technology, The Theme name introduced for this year is "**DECONSENTRO**" which is formed using three words- Decentralized + Consensus + Tron where Decentralized means an activity or organization controlled by several authorities rather than one single one , Consensus means a general agreement and Tron is an application which works with several crypto tokens and block-chain wallets.

We are emphasizing the Technology where there is no central server to work but distributed servers are working, well defined by our tagline "**DIVIDE TO CONQUER**".

This year we are committed to conduct the events in a much more splendid and thrilling way.

GLIMPSE OF THE PAST

"Technology is best when it brings people together"

---Matt Mullenweg

India is a land of festivals and VERSION adds one more every year for the students of MCA. The journey that started in 1991 has entered into 2021. Each edition of VERSION created a milestone. It has witnessed KNOTRYX in 2019 based on EDGE COMPUTING and students from different colleges took part in it. We hope to make it much more innovative this year.



TIMELINE

History Of Version Themes

1991

Satisfaction Always
Resides With Perfection



1993

Isthmus of Technology



1995

Continuing Challenges



1997

A Tryst With
Tomorrow



1992

The Cerebral
Autonomy



1994

The Cyber World



1996

Journey Towards
New Horizons



1998
Gateway To Tomorrow



1999
Glimpses Of Seamless World



2000
Cybernetics



2001
Security



2002
Convergence



2003
Open Source



2004
Platform Independence



2005
Interoperability



2007
Re-Engineering



2008
Agile Computing



2009
Hyper Visor



2010
SAAS



2011
Droidian



2012
Iamicus



2013
Personigo



2014
Crewcite



2015
Whizcon



2016
Witura



2017

Visnoetic



2019

Knotryx



2021

Deconsentro



2018

Qubykon



2020

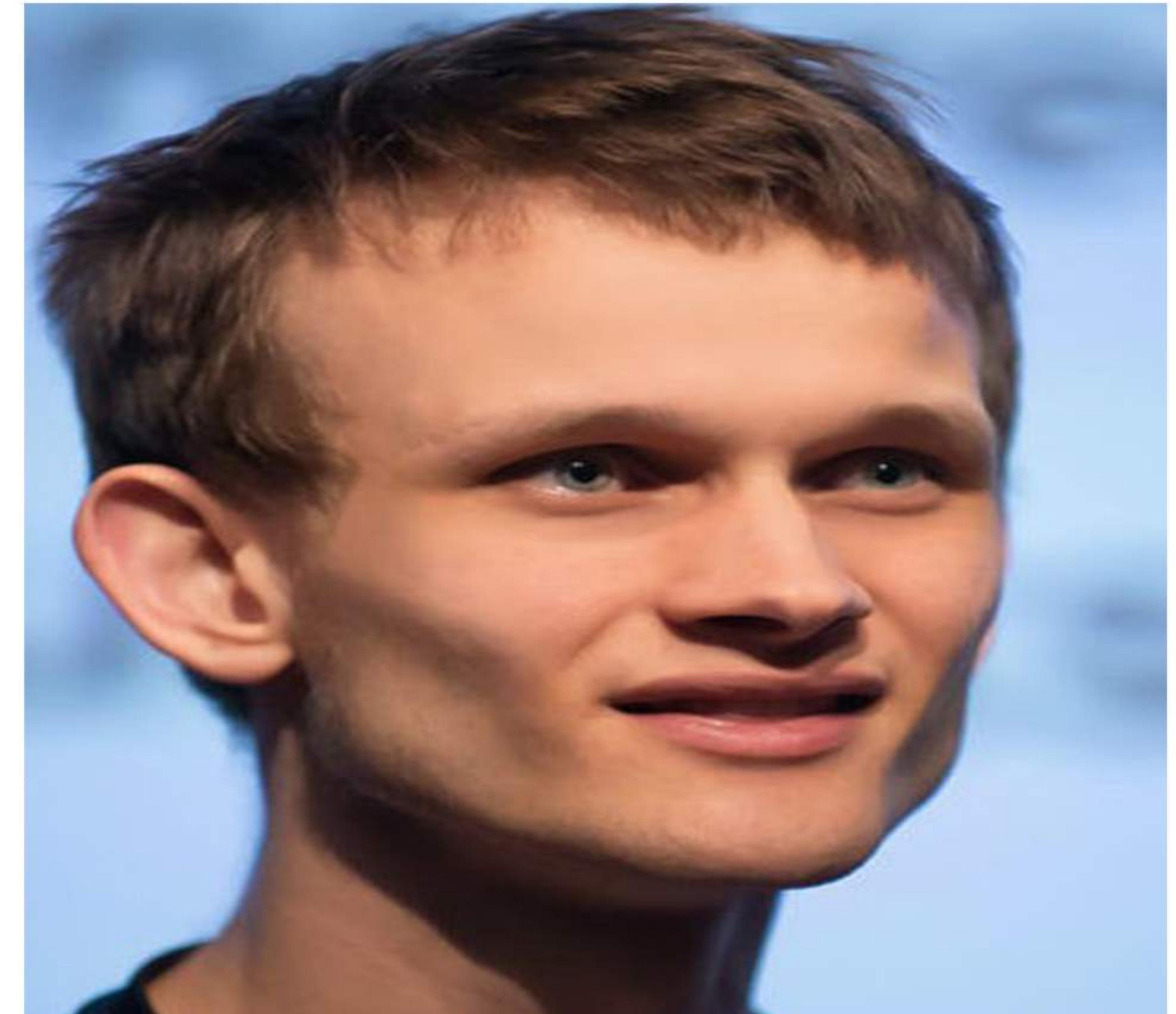
Capextremis



ETHEREUM

History:

Vitalik Buterin, a programmer and the co-founder of Bitcoin Magazine, was introduced to Bitcoin in the year 2012. He got very interested in the idea and started writing for the Bitcoin Magazine. He also suggested improvements for the Bitcoin platform to more use cases than just transactions that could lead to attaching real-world assets to the blockchain but failed to gain agreement on his idea.



So, in late 2013 he decided to develop his platform with a more general scripting language which is now known as Ethereum. The development was crowdfunded, and the project went live on 30 July 2015.



What is Ethereum?

Ethereum is a public, open-source, blockchain-based, decentralized platform with smart contract functionality. It helps developers to build and publish distributed applications(DApps)-meaning it is not operated by a centralized entity.

Ethereum is the second largest cryptocurrency after Bitcoin, and it is also the most actively used blockchain. Just like all other cryptocurrencies, Ethereum also works on a blockchain network, which is a distributed public ledger where all transactions are verified and recorded.

The main use case of Ethereum today is a value exchange, which is done via Ethereum's native token, Ether. But the idea behind the development of Ethereum is to change how apps on the internet work today by replacing intermediaries with smart contracts that execute the rules automatically.

How Ethereum works?

Ethereum is a decentralized software platform that works, by using blockchain technology. The history of all the transactions and smart contracts is stored in the Ethereum blockchain, which is very similar to Bitcoin's.

A network of systems called nodes is used to replace the servers and clouds. Thousands of nodes all over the world store a copy of the complete Ethereum blockchain on their systems, which makes Ethereum decentralized. All of these nodes are connected and each Ethereum node follows the same set of rules for accepting transactions and running smart contracts. Unlike Bitcoin, Ethereum nodes also keep track of the current state of all the applications, including each user's balance, all the smart contract code, where it's stored, and any changes that are made.

Every transaction on the network uses cryptography to keep the network secure from frauds. A large group of people, called "miners", around the world solve complex mathematical equations that confirm each transaction on the network is following the rules, and once more than half of them agree to it, only then the block is added to the blockchain. All these measures make hacking this kind of system nearly impossible. These miners are rewarded with cryptocurrency tokens called Ether, which can further be used to buy goods and services.



Ethereum Mining:

On verifying a transaction, nodes on a blockchain are rewarded with Ethereum's cryptocurrency, Ether. This process of verifying transactions is called mining. It is also called "Proof-of-Work" mining because the node has to show the work it has done in order to receive the Ether. This way of mining is bad for the environment as it uses a lot of computing power and thus consuming a lot of electricity.

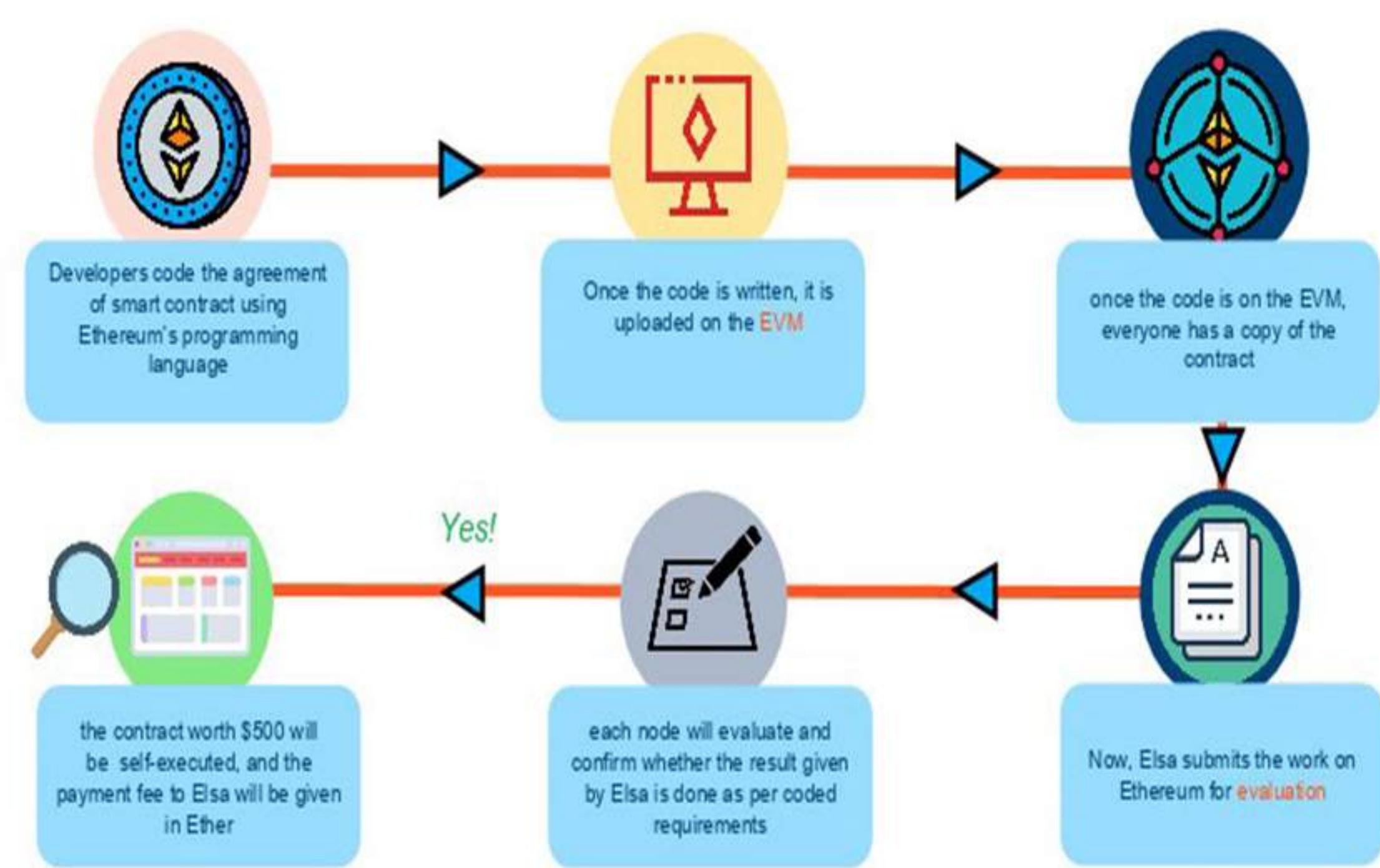
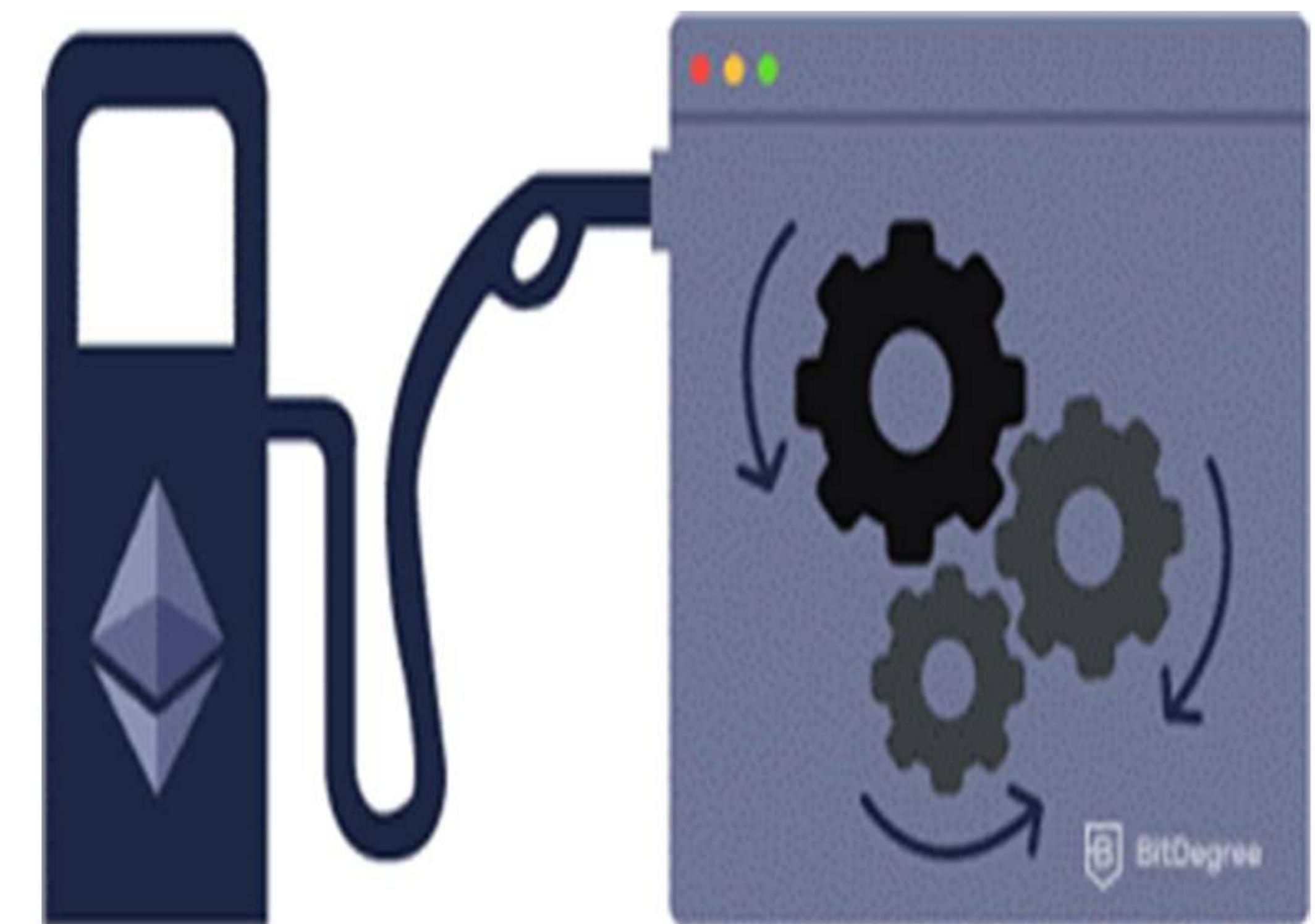
To avoid consuming a lot of power, Ethereum developers are hoping to start using a different method called "Proof-of-Stake", in which users are selected at random to verify transactions. Thus, this method uses much less electricity and so it is better for the overall planet.

Features:

These are the essential features of Ethereum:

1. Ether

Ether (ETH) is the currency of Ethereum. It is used to buy gas, which can then be used to pay for the computation of any transaction taking place on the Ethereum network. Ether can be utilized to build decentralized applications, smart contracts, and making other regular payments.

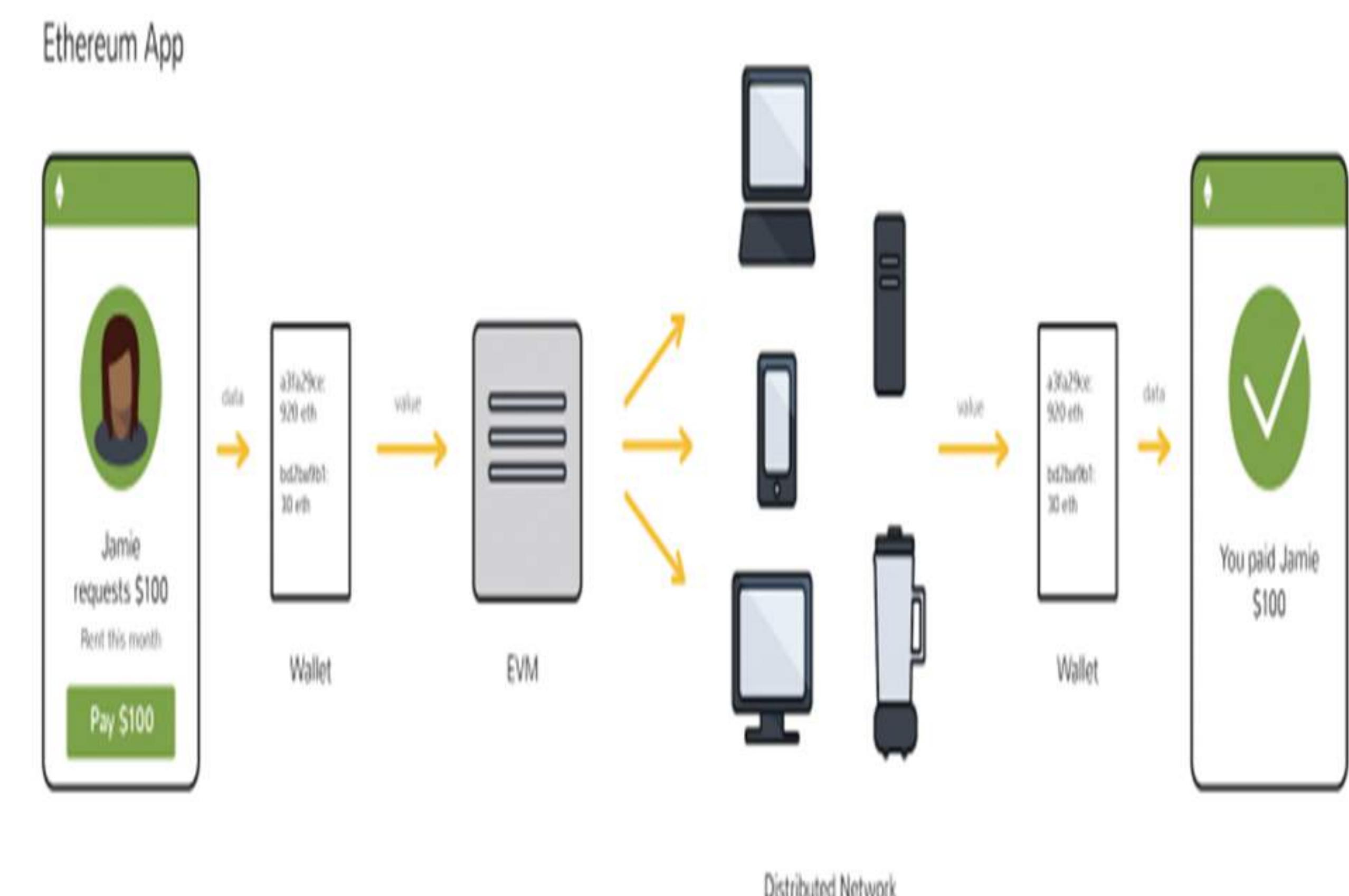


2. Smart Contracts

Transactions on the Ethereum network can only take place when certain conditions are made. These conditions or rules are written using a simple computer program called “smart contracts”. Once a smart contract is written, it cannot be changed or tampered with.

3. Ethereum Virtual Machine

An Ethereum Virtual Machine (EVM) is used to execute Ethereum-based smart contracts. A smart contract is written in a programming language called Solidity for Ethereum, which cannot be read by a computer. It is first compiled into bytecode, which can then be read and executed using the EVM.



4. Decentralized Applications (DApps)

Decentralized applications are simply applications that do not run on a centralized server. Instead, they run on a blockchain network. Ethereum has its own coding language called Solidity, similar to JavaScript, which can be used to create DApps.

5. Decentralized Autonomous Organizations (DAOs)

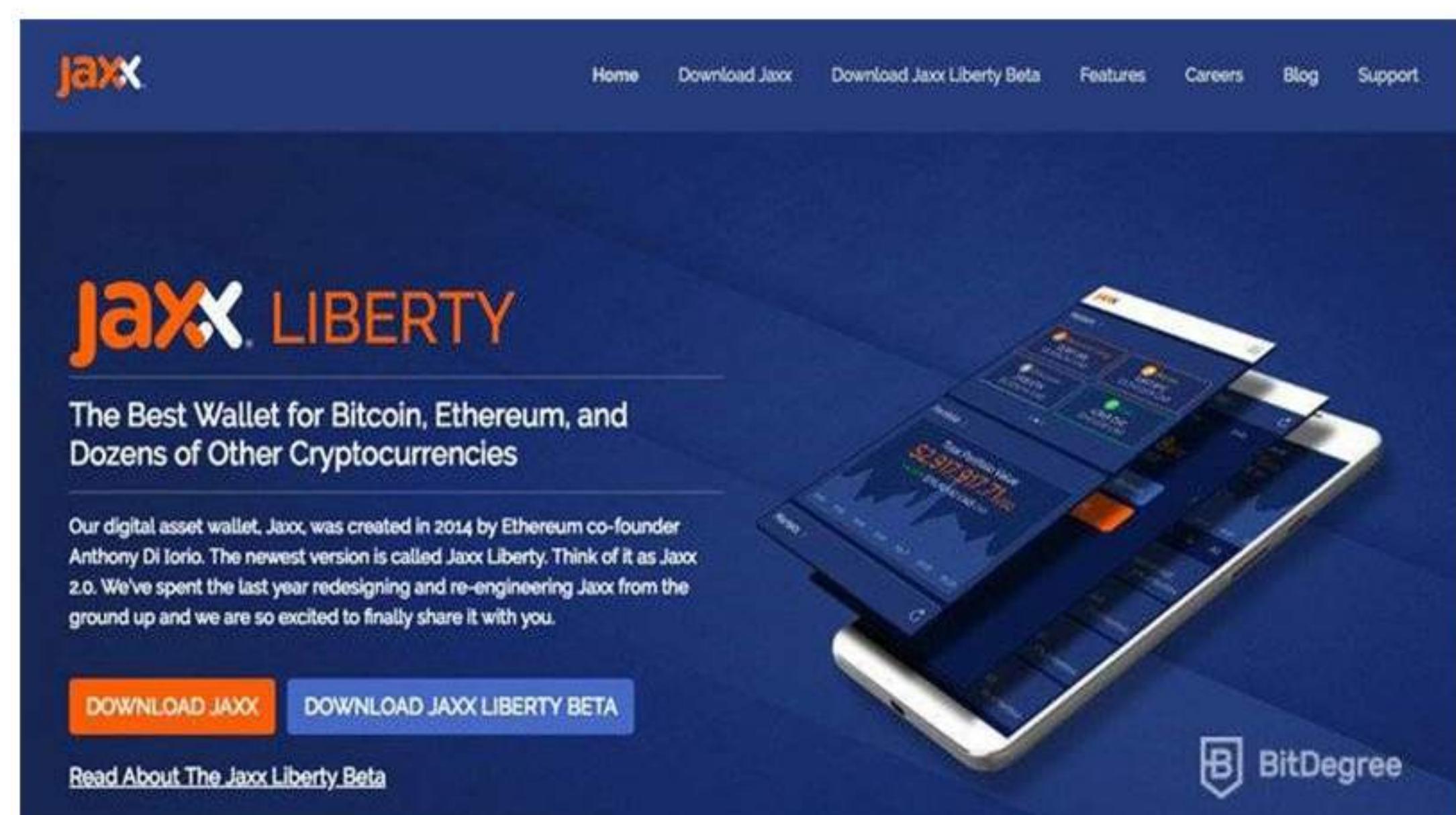
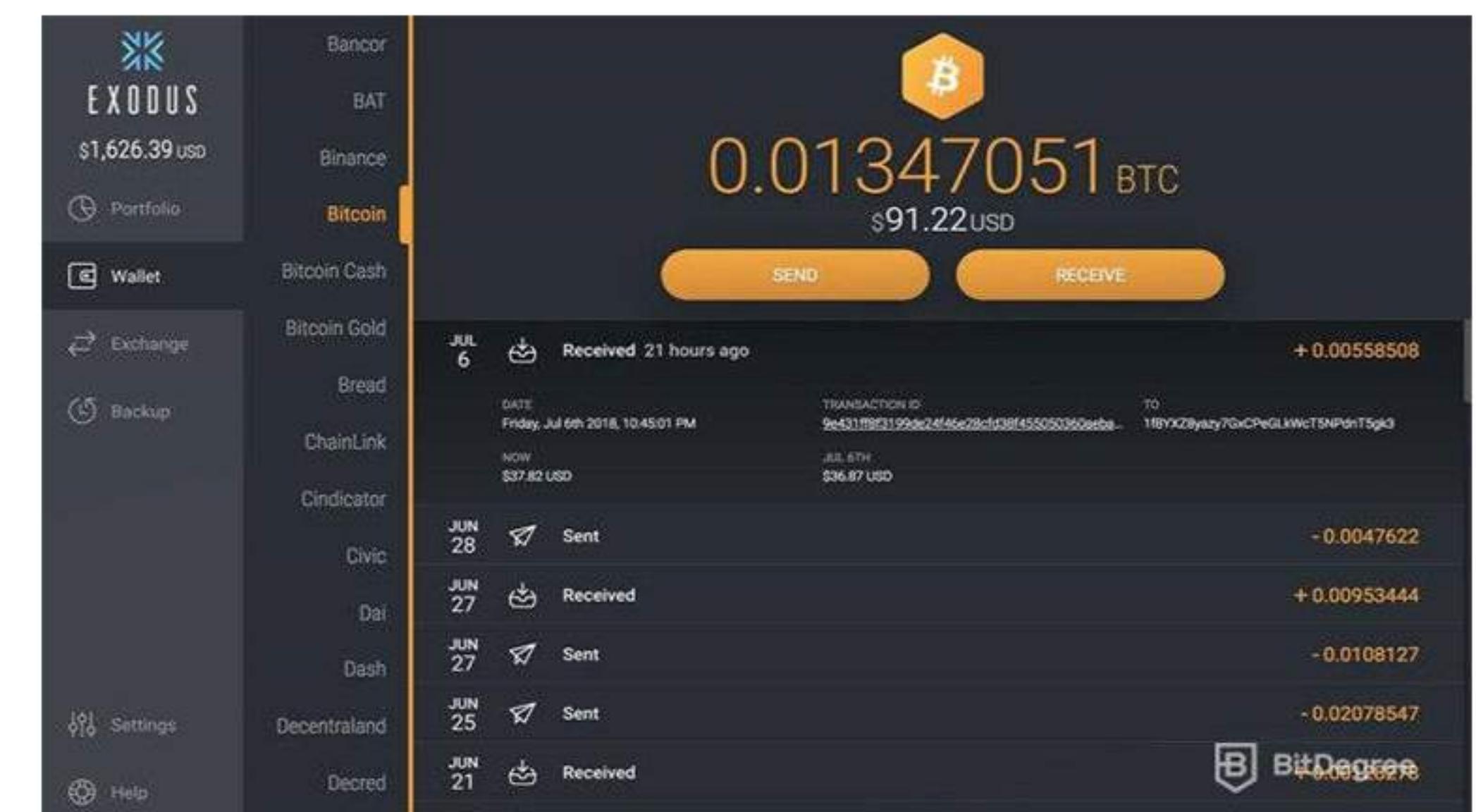
A DAO is a digital organization which works in a decentralized manner. It exists on a blockchain network, where it is governed by the rules in the smart contract. DAO is an organization in which the decision-making is not in the hands of a centralized authority but instead in the hands of a certain designated group.

Ethereum Storage:

The different types of Ethereum wallets are:

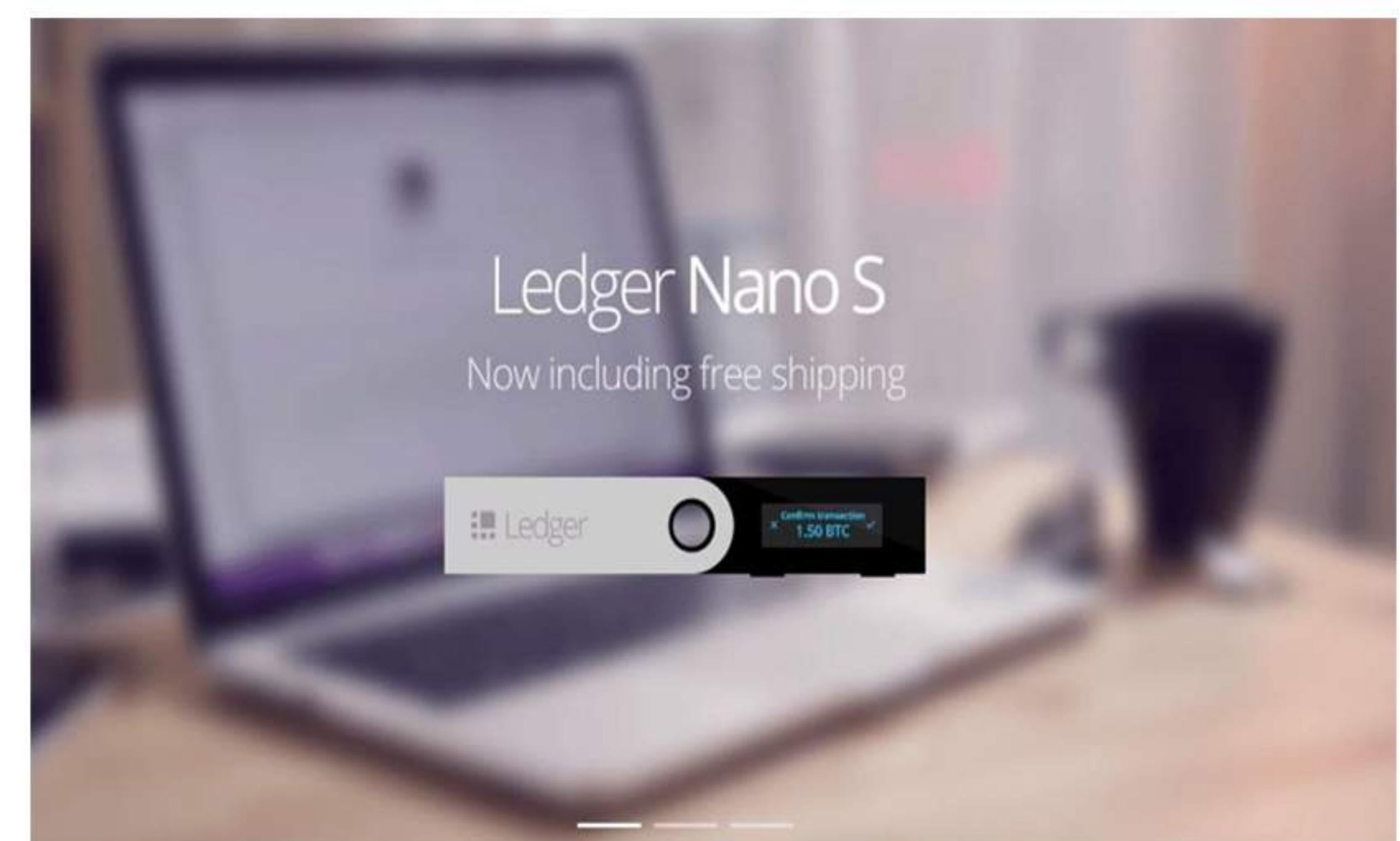
1. Desktop Wallets

Here, you store your public and private keys directly onto your PC or laptop. It uses a password that you must store safely. It also takes up a lot of space on your device.



2. Mobile Wallets

They are similar to desktop wallets, but they take much less space. They are ideal for storing your public and private keys on your smartphone.



3. Hardware Wallets

These are physical storage devices, like USB sticks. They are built for security and detached from the internet, and can sign and send ether transactions without being online.

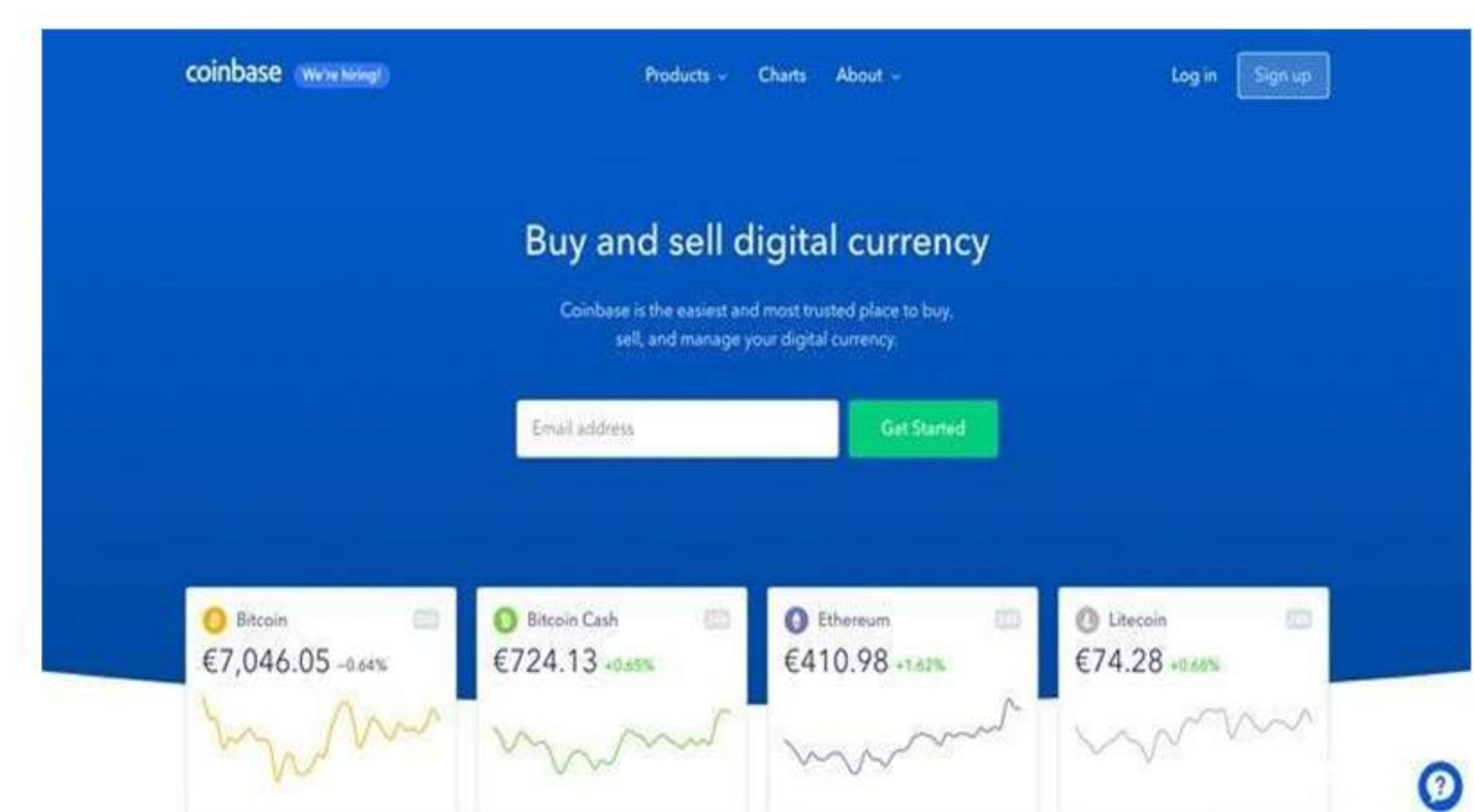


4. Paper Wallets

Here, you write your access code on pieces of paper, and they can't be hacked. It is the oldest form of storing access codes.

5. Web Wallets

Here, you directly store your private keys online. These are the least safe type of wallets.



SMART CONTRACTS



Introduction:

Smart contracts were first proposed in 1994 by Nick Szabo, an American computer scientist who invented a virtual currency called "Bit Gold" in 1998. Szabo defined smart contracts as computerized transaction protocols.

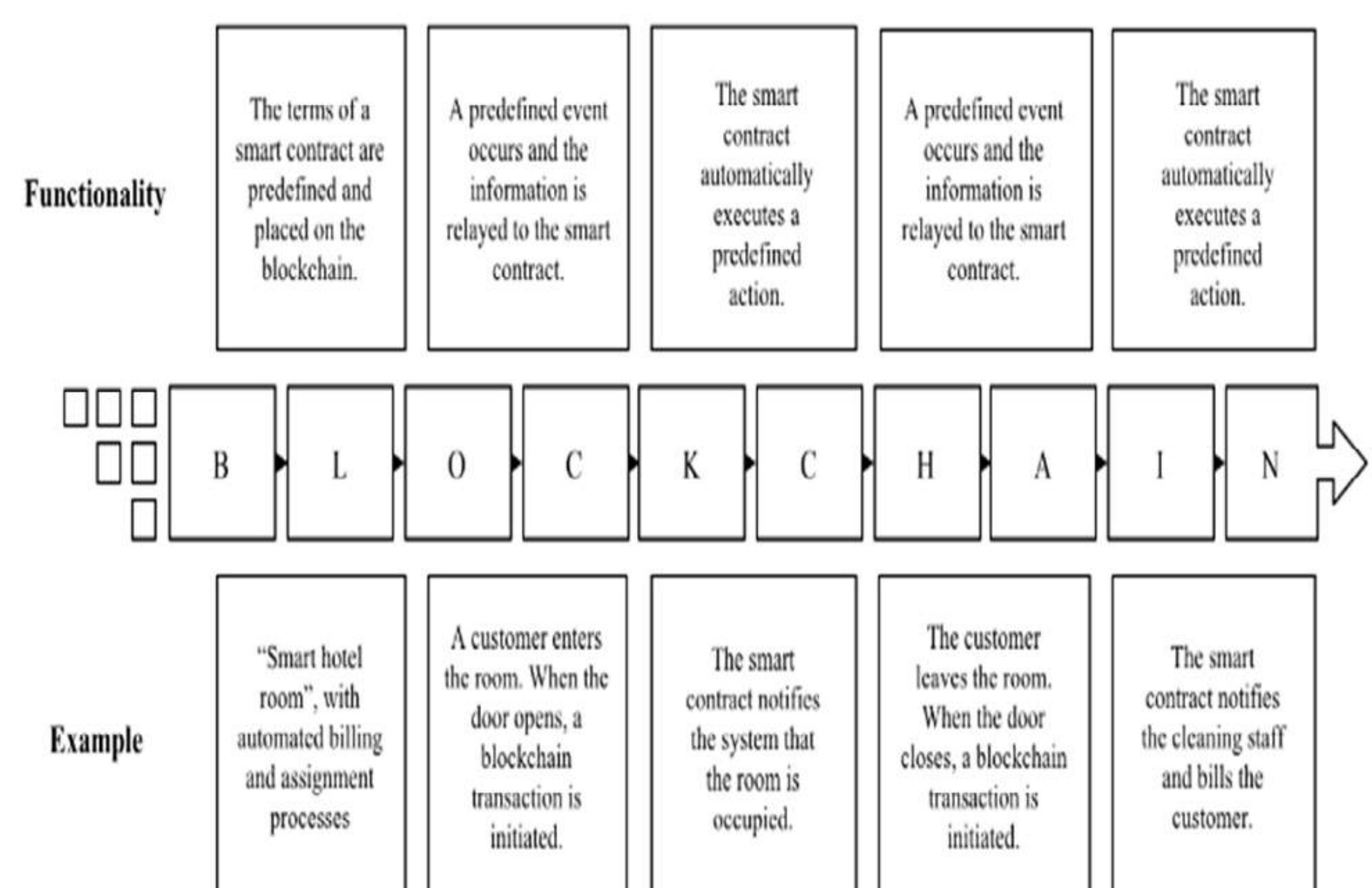
He wanted to extend the functionality of electronic transaction methods, such as POS (point of sale), to the digital realm.

What is a Smart Contracts?

Smart Contract is an agreement between two people in the form of computer code. A "smart contract" is simply a program that runs on the Ethereum blockchain. It does not represent any legal contract but simply executes a predefined logic. It's a collection of code and data that resides at a specific address on the Ethereum blockchain. Smart contracts are a type of Ethereum Account. This means they have a balance and they can send transactions over the network. However they're not controlled by a user, instead they are deployed to the network and run as programmed.

A simple example of a smart contract is an automated hotel room management system: As soon as a customer leaves the room, the smart contract is automatically notified.

For example: A device connected to the room door that initiates transactions on the blockchain whenever the door is used. This in turn triggers predefined processes, such as billing or the automatic assignment of cleaning staff. Smart contracts may represent legally binding processes(e.g. billing) but may also serve more mundane purposes (e.g. assigning cleaning staff).



BUILDING A SMART CONTRACT

Step 1: Agreement

- Two or more parties must negotiate a written legal contract or use a form contract from one of the parties or an affiliation group containing their agreement.
- The contract must include specific transactions or other rights and obligations that vest or are executed upon specified sets of conditions.

Step 2: Conditions

- The parties must set:
 - All of the conditions to be automated under their agreement.
 - All permutations of each of those conditions.
 - The intended result or instruction in each case.
- The set conditions can be internal to the contract:
 - The manufacture or shipping or delivery of a product
 - A schedule of due dates for payments
 - Expiration of inspection rights or warranties
 - A form of deliverable or notice by a party.
- The set conditions can be external to the contract:
 - Acts or omissions of third parties
 - Accidents or weather or climate events or other acts of God
 - Other events of force majeure
 - Financial or product market triggers Changes in legal or financial status

Step 3: Coding

- The smart part of a contract must be reduced to binary machine code. This requires design logic and the writing and compiling of computer code using Solidity or other software language.
- The code must incorporate all of the set conditions and results, so that the contract will automatically be performed when those conditions are triggered.
- Key Point:
 - A smart contract therefore always has two versions: the human language version and the machine code version.

Written Contract:	Smart Version:
<ul style="list-style-type: none">→ Human language→ All parts of agreement→ Freely modifiable in writing by the parties.→ Subject to interpretation	<ul style="list-style-type: none">→ Machine computer code→ Only transactions to be automated→ Embedded into blockchain or <u>other</u> ledger.→ Generally immutable.

Step 4: Blockchain

- The smart contract is then verified and written into by the blockchain or other distributed ledger network.

- The parties are issued public and private digital “keys” to identify themselves as the parties to the contract and the location of the contract on the blockchain.

Step 5: Execute and Recording

- Execution of the transaction is triggered:
 - by a message sent by a party validated by its private key or
 - by the objective satisfaction of external or other events or conditions coded into the program.
- The transaction [such as transfer of funds or title] is automatically performed pursuant to the smart contract code.
- The completed transaction [for example: sale of digital currency or assets; payment of royalties; delivery of shipment] is verified and written into a new block in the chain.

DApps

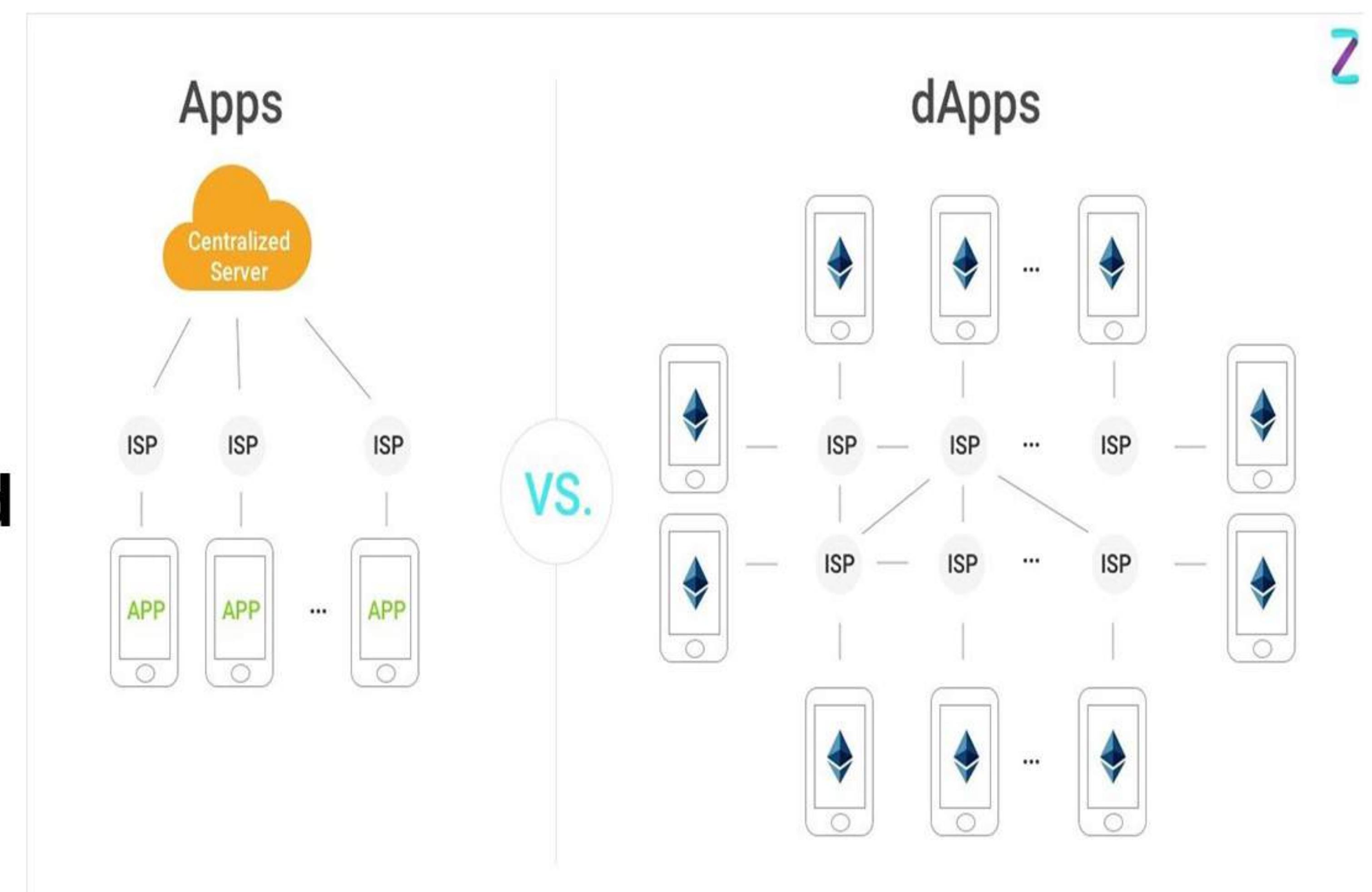
A Dapp, or decentralized application, is a software application that runs on a distributed network. It's not hosted on a centralized server, but instead on a peer-to-peer decentralized network.

Just to be clear, a Dapp is just like any other software application you use. It could be a website or an app on your phone. What makes a Dapp different than a traditional app is that it's built on a decentralized network, like Ethereum.

Normal apps may be stored in a distributed computing architecture, but the servers on which the data is stored belong to the company, in other words, the handful of people who own it. DApps, by contrast, are stored in a distributed network of individuals who can harness enough computing power to qualify as a full node. Those that qualify as a full node store an entire copy of the ledger or blockchain on their servers, which makes ownership collective. Further, to qualify as a network node, we need to execute "a consensus algorithm". The consensus algorithm forms the set of rules needed to be met in order to verify a new record or transaction. In other words, the smart contract or digital agreement.

Some Apps based on DApps :

- **Chainlink** : Offers any smart contract secure access to data feeds, APIs and payments.
- **Brave** : Brave seeks to create a blockchain-based digital advertising and services platform while browsing.
- **EOS Dynasty**: the first role-playing, player-versus-player (PvP) game based on blockchain.
- **MakerDAO**: A decentralized credit service that runs on the Ethereum blockchain platform.
- **Chainyard**: This dApp and consultancy is striving to solve problems with Supplier Information Management systems.



Articles:

- <https://ethdocs.org/en/latest/contracts-and-transactions/developer-tools.html>
- <https://github.com/jasonwalsh/awesome-dapps>
- <https://www.computerworld.com/article/3510457/10-top-distributed-apps-dapps-for-block-chain.html>
- <https://trevorlasn.medium.com/heres-a-list-of-the-best-courses-and-resources-for-learning-solidity-ethereum-dapps-600e18287381>
- <https://ethereum.org/en/developers/docs/dapps/>

Books:

Building Blockchain Projects
-By Narayan Prusty · 2017

Build Your First Ethereum DApp
By Bruno Skvorc · 2018

Video Tutorials:

- Build 5 Dapps on the Ethereum Blockchain - Beginner Tutorial - freeCodeCamp.org
<https://youtu.be/8wMKq7HvbKw>
- How to Build Ethereum Dapp (Decentralized Application Development Tutorial) -Dapp University
<https://youtu.be/3681ZYbDSSk>
- Intro To Ethereum Programming --Dapp University
<https://www.youtube.com/watch?v=XLahq4qyors>

AM I AUDIBLE?

-- The New Normal --

It's been more than a year now!! Tired of listening to the word pandemic, right? Tired of motivating yourself every single day? We say doctors and other frontline warriors are fighting this battle at the front end. Huge respect to them.



But I will give huge respect to you too. Yes, you, the one reading this right now. You are a warrior too. Each and every person on this planet right now is a warrior.

We all know that this pandemic caused various changes in our daily lives. One such major change was in the pattern of teaching and studying. Schools and institutions have been locked for quite a long time now, and students across the globe are studying in an online mode. Everybody had a different experience while we were trying to get into this new way of learning.

Today I will share with you another story of some warriors, known as the MCA Batch of 2023. This story will make you laugh, give you hopes and bring to you ways of how to turn little things into happiness. How to laugh together even being miles apart from each other and most importantly how to be a family without even meeting each other in person. After preparing hard to get into NITT, when we guys were excited to attend and go to India's best College, all we got to attend were Zoom and Teams meetings. Despite all the negativities, our batch still took it positively. Though the essence of college life gets taken away by this virtual learning, it does give us the comfort of setting our own study environment for classes. It feels like a lot is against us, but this has still been manageable. The virtual mode has opened possibilities of various things that would have been difficult to attain on campus.

It's so overwhelming to see our Teachers put in extra efforts to keep the class lively, despite the fact that the platforms and online modes are new for them too. Our seniors tell us stories about the struggles and fun they had on campus, and now we wonder what we will tell our juniors. Definitely, we have a lot to tell. Although we don't have to get up early and run on our bicycles, still Am I audible? Am I visible? In online classes are a constant struggle. Scanning the answer sheets and uploading them on time required a different level of patience. We definitely don't have opportunities to gather on the basketball court to share smiles and jokes, but still we gather over Gmeets and Whatsapp groups and share stickers and memes to keep everyone motivated and it's entirely different fun. Sometimes I feel how creative my batch is, we will not only convert into full-stack developers and coders but also full-stack memers. The regular interaction, increased number of online events, has kept us so engaged and stimulated.

Things would have been difficult if we had not handled and motivated each other from time to time. Being at home, in the same room for days, is not easy at all.

Staying focused is difficult too, but when you have people around you with a positive approach towards everything, then life becomes a little easy. MCA BATCH 2023, in my eyes, are true warriors because they are fighting all the negativity around them, focusing on what is Good, and above all, helping each other in learning and growing together.



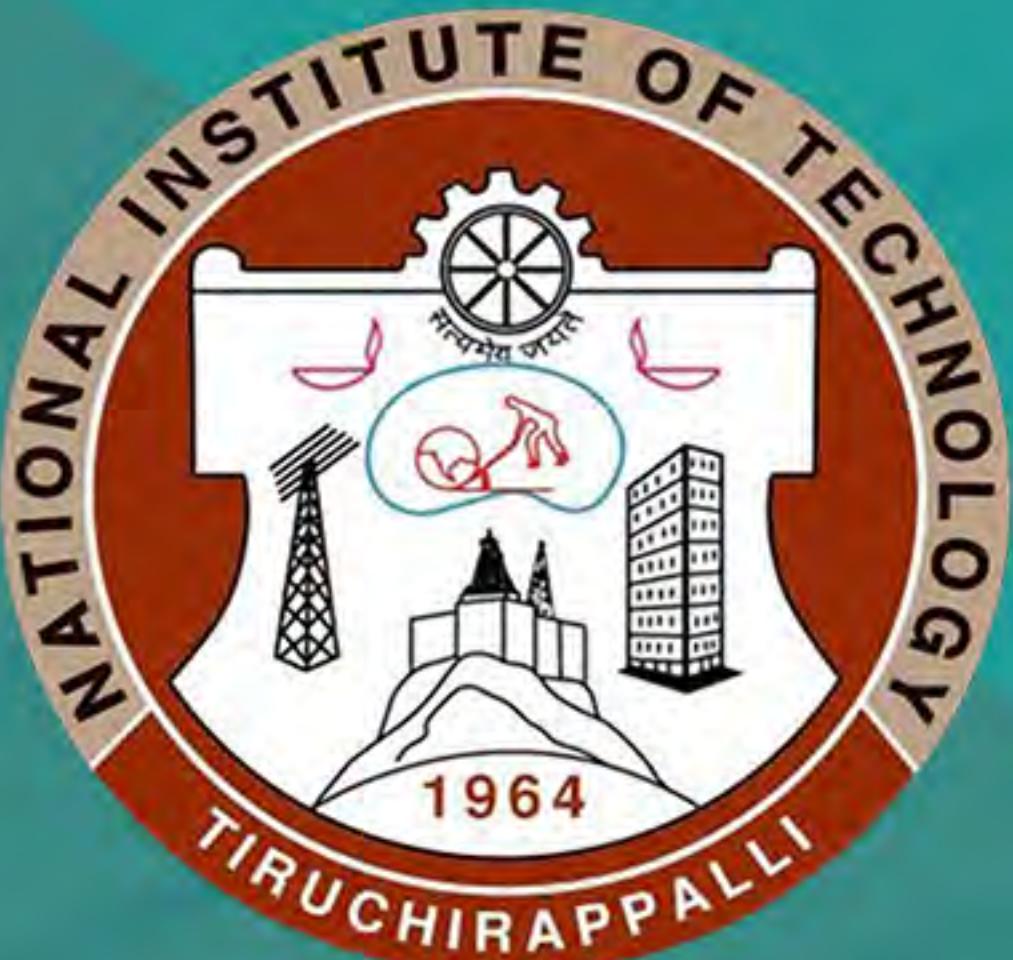
At times everybody falls weak, but when you have good people around you, they never let you fall and that's what we do. We hold each other at times when needed. We are a family, who in a way, still are strangers.

So, in this difficult time, start finding happiness in little things, keep the people who motivates you close to you or be the one who holds on and motivates others. Things are new for each and every one of us so keep learning and keep growing together. We cannot stop just when the battle is about to end. Don't let the warrior in you die. Remember At the hour before dawn, the night is darkest so we will have to become our own star, which is self-illuminating. The more the stars, the brighter the night.

Stay safe, stay home.

Keep learning, keep growing!!

- Ruchi Panse



VERSIONIZE

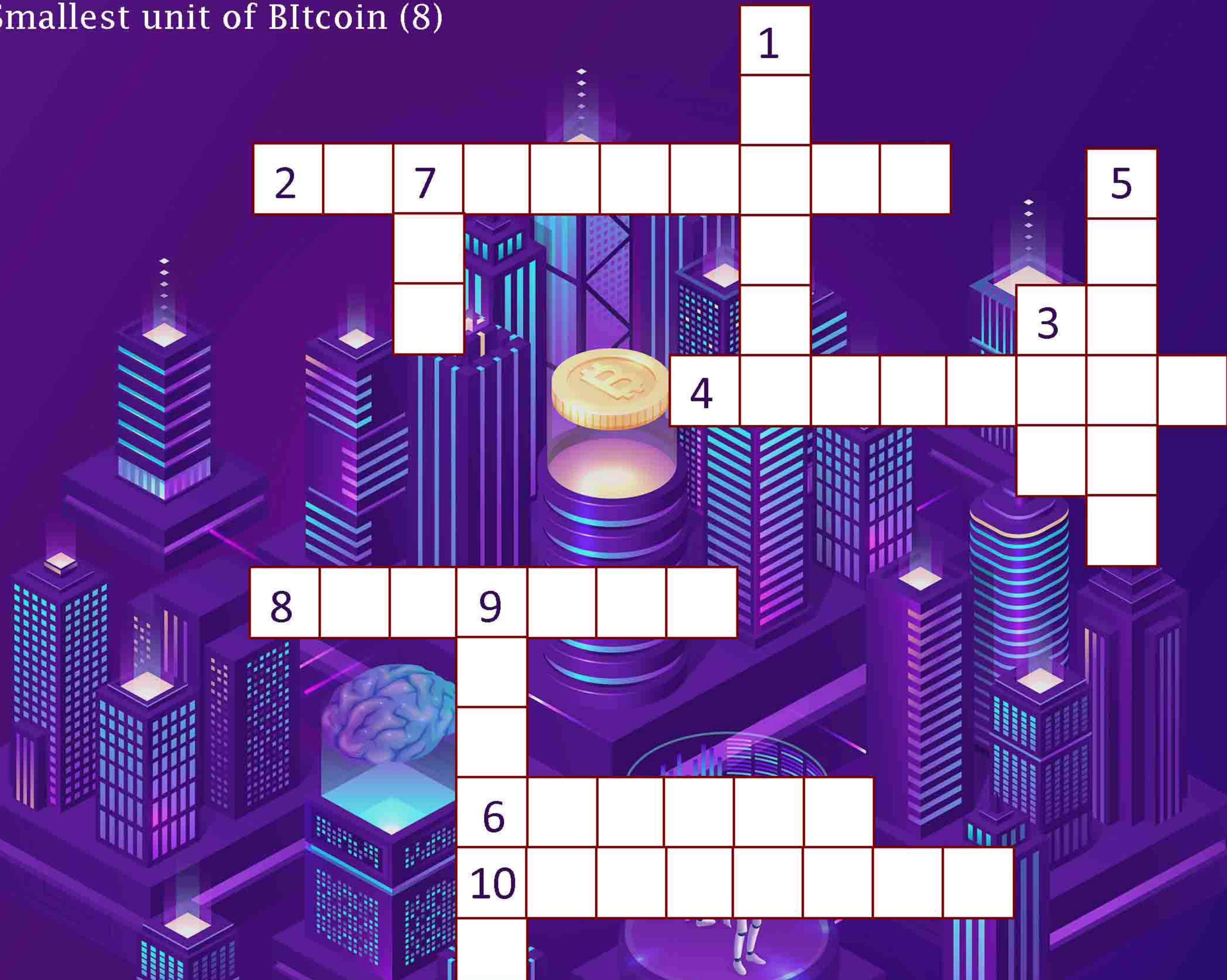
GET EVERY STORY
RIGHT IN
YOUR HAND

www.version21.in

CROSSWORD

ACROSS

- 2 - A database collecting information in groups and connected in a course (10)
- 4 - A meme currency launched in 2013 (8)
- 6 - The first search engine (6)
- 8 - First virus detected in 1970 (7)
- 10 - Smallest unit of Bitcoin (8)



DOWN

- 1 - A web framework which is open source and follows model-templates-views (5)
- 3 - A network of physical devices around the world connected through internet (3)
- 5 - The name of MySQL's dolphin (6)
- 7 - Original name of Java (3)
- 9 - Algorithm for Ethereum's proof of work (POW) (6)



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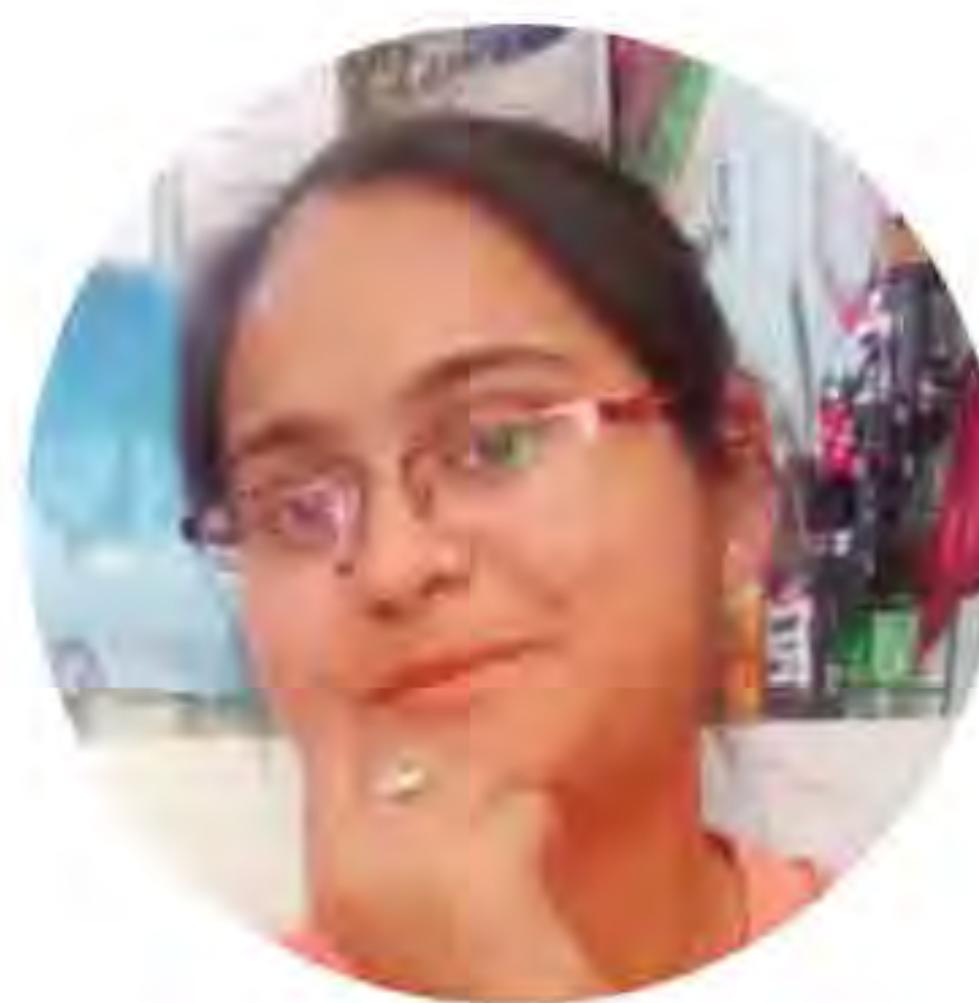
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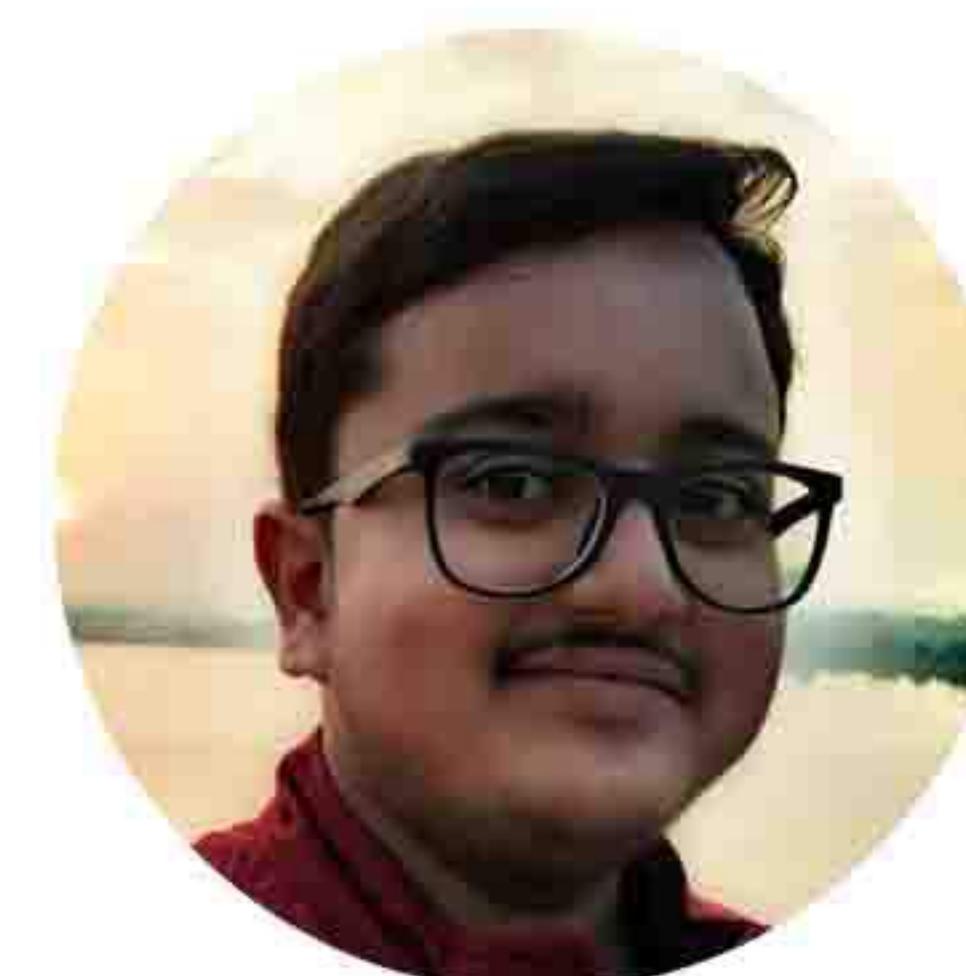
Alok Khalkho



Praveen Vishwakarma



Sheetal Ingle



Mayank Singh



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Kunal Kumawat



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Nitesh Kumar



Prashant Shukla



Shababul Ali



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Akshay Gawai



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Shanoor Ahmed



Payal Soni



Sonu Gupta

26 - SKIDDODDI



There is one place for each letter of the alphabet in the 26 empty squares in the diagram below. Fill in each letter so that a word of at least 5 letters is formed reading across only. Not all the letters to the left and right of the empty box are used; The word form must be either keyword or library name in python. it's up to you to discover which ones are needed to complete familiar words. Only one letter in alphabets fit in empty square to complete the word.

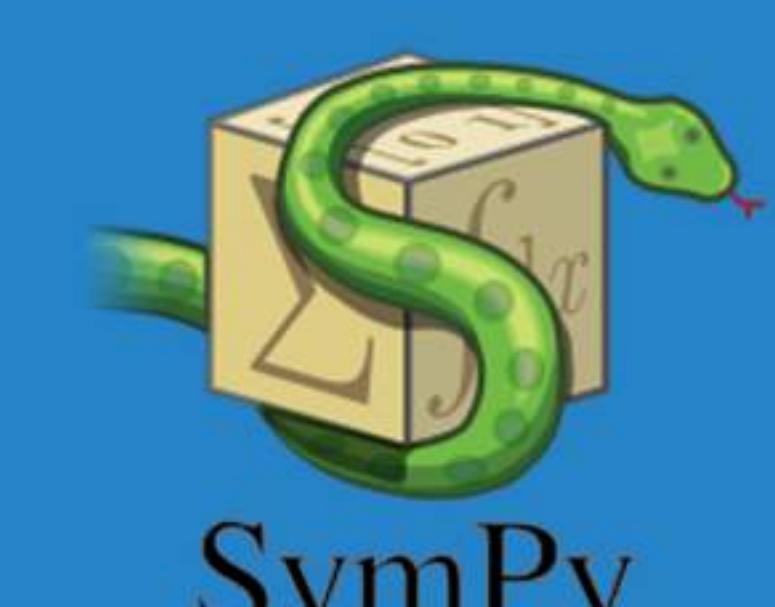
A	F A L S E A	A I T R U E
B	P N O N L O	A L I A S P
C	I F E L S E	C E P T I O
D	C O L L E C	I O N S Y N
E	L O C L E M	D A S S E R
F	L O O O P A N	A S S E R T
G	P A S S S A A	S E R T R Y
H	E X C E P T	I N T E R L
I	R A I S E I	P O R T L E
J	G L O B L E	I N A L L Y
K	W H I L E R	I S E F O R
L	B R E A K E	I E L D O G
M	W I T H I M	H D R I V E
N	F T U R T L	L E M E N T
O	P A S S N D	D R A I S E
P	F O R T E M	F A I L D M
Q	A S Y N C C	A S S E E K
R	T O K E N I	E B R O N I
S	F O R A S Y	C I F E L S
T	C O N T I N	E L I F D O
U	I N T E R T	O L S I N E
V	W I N D O W	N S O U N D
W	L A M B D A	L I N K I N
X	F L O O P Y	R A I N L Y
Y	S P I P E N	E N O M D C
Z	F O R O R E	U E S T S S



Flask



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