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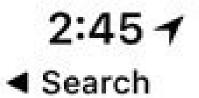
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Blockchain Technology Explained: Introduction, Meaning, and Applications, Also on Hackernoon4. How is Blockchain Revolutionizing Banking and Financial Markets, Also on Hackernoon.I am Mayank, Cofounder of EngineerBabu. Rest is subjective truth, stories and the second version of truth.Supplier accepting the expected date of delivery (ETD) should have double confirmation System. ETD and ETA should be strict and enforced across teams and need to know basis.Top management should receive focused information to all stakeholders.Alert system for better knowledge and monitoring (Email Focused)Open/Reply/Forwarding Emails from stakeholders as Analytics and Knowledge.Agile and Actionable information to find gaps before it is too late.Timeline strict project should have special considerations in System with more strict Alert systems.Stakeholders with track record is important. Photo Courtesy: AerialPerspective Images/Getty Images If you're looking to start investing in cryptocurrency, you've probably begun seeing many more references to something called blockchain technology while doing your initial research — and maybe found yourself thoroughly confused by the concept. In order to amend it, a new draft has to be submitted, and this draft is electronically "chained" to the original — thus, a chain of blocks, or "blockchain," is formed. There should be explicit consensus/agreement between quality, quantity and time between stakeholders in case of any editing in orders. It also includes employees data, email flow, process flow, etc.A detailed structure of involved stakeholders, teams, roles, hierarchy structure, user roles, daily interaction and flow of information and data needs to be planned before executing who, Does What, Reports to Whom, Where, When and How. We need them to be double confirmed with the event when the stage is crossed from one set to another. It is also based on rights they will have for voting in stage transfer or not. And by removing the need for a financial middleman, blockchain technology may be used more in the future to make international trade agreements far cheaper in a variety of industries. So we have a very sure commitment from Suppliers.We should never apply double confirmation for Brand. Now the question becomes: Why would you ever want to save information in this way? So what makes blockchain different from a traditional database? The only problem? For many non-profit and charity organizations, blockchain finance records could prove to be the key to ultimate transparency. We need upgrades and security updates.Small companies might shut down or have problems in securing the Blockchain database. Then those chains will follow old function in data block process flow. A blockchain is a particular type of digital database that stores a large amount of information. It can be in database list of the supplier, manufacturer, brand owner or store owners. Smart contracts are more or less self-executing digital contracts that remove the need for drawing up traditional contracts on paper. It is just based on expensive agreements, and good faith business is running.All data and commitment supplied by third parties have financial incentives involved. Its US customers include the SEC, the Treasury, Morgan Stanley, Bank of America and most leading worldwide banks. e.g, If you deliver on this date automatically, payment will be made on this date, and if you delay by one day without approval, 0.1% will be deducted off the invoice amount as penalty.We will move away from paper contracts, and configurable contracts will evolve in the industry with standard codes. Then we should focus on them as well as orders.System of every order with supplier/manufacturer past record can give you likelihood of order completion on time. And you definitely wouldn't want to transfer the vehicle over to them if their cheque hadn't cleared and you didn't have the money in your bank account yet. The process of upgrading is highly required by platform.Hacking, decryption and security breach should not affect trade secrets.A pseudo naming convention for all stakeholders, order ids, item names and details with encryption and permission-based access should be used.Consensus Model should be applied for adding, editing and stage crossing blocks. It can reduce pressure from the supply chain."Information collected from various sources should be aligned for knowing one version of truth and transparency in the ecosystem without disturbing trade secrets of each stakeholder."Originally Published on EngineerBabu Blog by Virat Khutal.————————————————————————————————————Read My Other Related Articles1.How is Blockchain Disrupting the Supply Chain Industry?, Also on Hackernoon2. Blockchain's smart contracts remove the need for middlemen — in this example that's the bank, which verifies and processes the transaction before depositing the payment money into your account. It is a dynamic model, which can change and evolve in the supply chain network.Stores and Brands will have more transparency and information of chain. Generally, it will be used for stage crossing.Upgrades for the entire chain. Some governments are even looking into the potential of blockchain tech in regards to securing public records, government approval processes, budget allocation documents and more. Sharing them on blockchain will be key.)IOT and Custom Devices(Monitoring, Analysing, Measuring, Access control data can also be inserted in blockchain to derive chain of events.)Open APIs for Shipping companies and other stakeholders (It is entirely dependent on stakeholders implementation. Due to consensus and web access during the time of transition. This creates a full, time-stamped record of a given piece of data and any changes that have been applied to it. If there are all orders, which have not reached their conclusion (Delivery). Started by the New York Stock Exchange in 1922, it now trains 250,000+ professionals in over 120 countries. We should never be vulnerable to that hacking in future. Shipping companies will need bank balance assurance from parties.Brands have to open their purchasing power to make manufacturer assured of payments and faster delivery. With the blockchain model, you'd end up with a series of different copies arranged along a virtual timeline. Generally, if you're having reservations about making the sale, you'd be wise not to go through with it without meeting the seller in person. This comes in handy when you're making financial transactions using cryptocurrency.What Are the Future Implications of Blockchain Technology?As you can see, the use of blockchain technology and smart contracts is demonstrating itself to be a trustworthy and tamper-proof way to do business. Think of it like writing a paper in a word-processing program. We need to get consent from parties involved to change stage. 95% of projects developed by them were completed on-time. It is about companies opening up their data to other stakeholders for mutual benefits and automating processes. Rather than only showing your final draft, it would show each individual draft you composed, from the first to the final. So we have a better idea chape and method. In the traditional database model, you'd simply go back over your first draft and make edits and corrections until you were ready to save your final copy. Instead, their information is stored and shared on a variety of nodes in many different locations. In case of Upgrades, we need to plan for future with Data Blocks, Network, and Process flow.Example of Data Blocks and Stages:We are covering a small part of the chain. Blockchain technology, such as the kind used with cryptocurrency Bitcoin, is decentralized. (Cryptography can be broken with Quantum Computer or Future technology or Hacking or Platform Bug of Blockchain. They are a prime source of truth for Manufacturing companies. We need this to free flow for best results. A smart contract can automatically draw up a virtual contract using code and then send a copy to both you and the buyer at the same time, unlike a paper contract that has to be copied or transferred. One increase in Computing power of solve keys. When certain conditions are met, the smart contract can also initiate the financial transaction and transfer the money directly from the buyer's account to yours. So the probability of over-committing and under-performing is very high.No single version of the truth with internal teams, enterprise level or third-party levels.Challenges of Adopting Blockchain in Enterprises DataChallenges of Adopting Blockchain in Enterprises DataHacking/Phishing Attempts to System and DataEncrypted Data might get decrypted after a few years. Due to immutability and every new version will have different Data Block Format. The ability to conduct financial transactions with strangers virtually — which was something many people hesitated to do before because other methods were less secure — is proving to be invaluable when it comes to buying and selling virtual assets such as cryptocurrency. This person is a total stranger, and you're not sure if you trust them or the check they're paying with. All nodes maintain copies of the blockchain database instead of storing them on a centralized server. It will have more probability and chances of attack due to cost/benefits from Competitors/Hackers.Supply chain stakeholders and ex-Employees can have threats to Blockchain System. The manufacturer can only do it with internal teams consent.Just Imagine, all this data is shared between companies and third parties with machines, ERP softwares, IoT devices, emails, excels sheets, CCTV and images with a need-to-know basis and preserving trade secrets. Currently, only blockchain can solve the problem of integrating all this data with consensus between parties and immutability for fraud-proof.Basic guidelines for DesigningThis solution list of the foundation of product development. Brands will deliver more information about ad campaign performance, digital eCommerce performance, and planning process.Once this data will open, and a new consensus model will evolve at every stage. This information will be provided with a timestamp in it.ConclusionWe have to understand blockchain from philosophical lens and actual implementation. They need to be highlighted in UI with actions to resolve by consensus with parties involved.Screen planning, Tree System planning, Stakeholders wise Access to blocks.Alert System configuration based on order, supplier, manufacturer, brands, stores, and shipping companies.Security of data and the entire system. You set up an account online to sell the vehicle on a car classifieds website, and someone contacts you wanting to purchase it for the full price. Any user can create new information, but once that information has been stored in a block, it cannot be manipulated in any way and is effectively set in stone. Editing of ETD rights should be always allowed to Brand.One version of Truth can be derived only by knowing chain of events and consensus of that event with timestamp stored with immutability.Every interaction with stakeholders, internal teams, top management is event. Precaution is better with Blockchain)Time ETD is non-sensitive information but within the ecosystem of stakeholders.Information Distribution in real timeWe have only Information Asset within the supply chain network. Photo Courtesy: Jordan Kitchen/Getty Images Blockchain technology, on the other hand, stores pieces of information in groups known as blocks. It will become an embarrassing situation for stakeholders. Information like time, raw material, ETD for order and time-sensitive information within the network. Decentralized applications, or "dApps," are run on a peer-to-peer system. We need to write all possible hacks, security threats, access control threats, data stealing within teams, consensus breaking and leakage by stakeholders.Planning for double confirmation and blocks, which need them. Blocks inside Blockchain are immutable.The consistency of System is based on permission and consensus. Feel free to reach out to me on LinkedIn | (About EngineerBabu— Medium).In addition EngineerBabu Help startups, enterprises, and owners to grow their business by building high class IT solutions. Whereas a centralized system is in big trouble if a hacker is able to breach its security protections, Netsolutions explains that it's "practically impossible to bring down a dApp because it will require a hacker to take down all the distributed hosting nodes." That means separately accessing all the different devices that contain copies of the blockchain database — a much more time-consuming endeavor than hacking into one computer's centralized database. What Does the Blockchain Storage Structure Look Like?Other key differences between a regular database and a blockchain involve the ways information is stored and which users have the ability to change it. It sounds vaguely digital, perhaps like it's some kind of computer part. Users can request copies of the information in this ledger, but only the owner of the database has the ability to change it in any way. It should be approved by both parties. While it's still a relatively new technology, blockchain appears to be one that'll continue to grow as the world begins learning more about its possibilities. It is probably theorem but effective for triggering danger orders. Photo Courtesy: D-Keine/Getty Images While these contracts are often used to trade cryptocurrency like Bitcoins, let's use another analogy for the sake of clarity. They might use this information for reducing the profit margin for other stakeholders.Planning in every phase should be strong and future ready. They use primitive technology for communication with outside parties, like emails, excel sheets, invoices, and POs. Those third parties also use manual teams to again digitize them in own systems for using that information.Potential Problems Due to this Model:A considerable amount is unstructured and unactionable in communicationLost in TranslationChances of Skipping interactionManual digitization by all parties after receiving copiesByzantine General Problem (No trust of information)Email/Interactions don't become generally enforceable law.Expected time of Delivery and promised quality is compromised due to clear communication.Every third party's company is a black box for the enterprise. They're not controlled or managed by any single authority. Blockchain technology also holds huge implications for philanthropic fundraising. While it doesn't actually make a lot of sense when it comes to writing a paper, it's much clearer when you apply it to the world of finance.What Role Do Smart Contracts Play?Blockchain technology is often used in the digital-currency world to keep track of something called smart contracts. Then smart contracts will start shaping up in the supply chain industry. It will be based on a need-to-know basis for the manufacturer. But blockchain technology is actually a tool that's becoming increasingly prominent in the world of finance. We have to achieve all the mentioned points in various phases of the project.Truth is Key to unlock the potential of organizationsOne version of TruthTruth is defined by the maximum ability to know reality. By making sure that everyone has access to a copy of the agreement at once, no one has to worry that the other party made any changes to the agreement that they don't know about. While a centralized database is accessible by a number of users at the same time, it's ultimately stored, managed and owned by a single authority. We can plan penalties for not responding and delaying in system.Department/Head/Employees agility should be tracked and rewarded.Top management should be kept in driving seat rather than receiving information from the hierarchy.Predictive Logic: Foundation of this logic will be written on stakeholders past record of supplied orders. Every enterprise has their softwares, databases, and systems to validate, record and retrieve information. Stakeholders like suppliers, manufacturers, shipping companies, brands, and stores. The New York Institute of Finance (NYIF), is a global leader in training for financial services and related industries. Even if you're just dipping a toe into online currencies and transactions, you'll increase your financial fluency when you gain a better understanding of blockchain's design, storage and potential. It can be cracked after 20 years when technology is ready. But shipping companies is tough.)Process FlowOrder from Brand to ManufacturerRequesting QuotesNegotiation and discussions for best ETD and Price with SuppliersSuppliers SelectionGenerating order for each supplier.Account team will create Invoice and send Suppliers.Supplier delivers Quantity and Quality approved raw materials to shipping companies.Shipping received for manufacturing.Process Flow of Supply ChainPlanning Process for developmentMethods for Interaction between stakeholders and departments.Trade Secrets outline, what needs to protect in the supply chain. Manufacturers will need bank balance assurance from brands with all future commitment included.Shipping companies have to open capability and capacity data for better booking. Taks a look at the basics of blockchain technology to start learning more.Getting Started: Blockchain BasicsFirst things first. The supplier will need bank balance assurance from Manufacturers with all future commitment included.Manufacturers have to open production line data, human resources data, the condition of human resources, waste management and the actual time of delivery updates at a real time. Think of a traditional database like a bank ledger. MORE FROM REFERENCE.COM Co-Founder & COOIn a global economy, everything is negotiated, traded and recorded in silos. Quantum computer posses that threat.Supply chain stakeholders business data, employee data, and systems are costly. Data planning is needed for it.JERP(Structured Data and System. Then we can have accountability and streamline the process. They have to provide real-time data of ship/air positions to supply chain. This way, all users have access to both the old and newly amended agreements and are easily alerted to any inconsistencies between the two. It will make the system hard to upgrade over time.Fraud/Risk/Push/Gaps exploited by StakeholdersFew Solutions:Selecting Private Blockchain with strong fundamental architecture.We will select private blockchain solution which is resilient, data critical for time, no loss to business and trade secret.Selection of private blockchain solution should be focused on big three companies. Consensus parties should be decided based on the hierarchy of parties and decision permission for that block.Every Consensus Blocks will always be controlled by stakeholders 2–5 employees per Stage. Photo Courtesy: Bloomberg/Getty Images As you can see from the above example, blockchain technology is quite valuable for accounting purposes because it generates such thorough financial records. 30+ funded by VCs, Win most innovative Premier Design Award, selected in Y-Combinator 2016 & 2017.Join HackerNoon e.g Supplier shipped material from China.Extracting one version of Truth/Chain incase of any conflict with Store/Brand/Manufacturer/Supplier/Internal TeamSegregation of Information based on necessity.Cost is sensitive data but time is critical performance data, which needs to free flow from Store/Brand/Manufacturer/Supplier/Internal Team.Two level of data encapsulation and security is needed when we will insert supplier, manufacturer, Brand, Shipping and Stores data in Blockchain.Non-Sensitive information in Blockchain.We will never insert Encrypted or Unencrypted sensitive information about price/cost in Blockchain.Every NYIF courses cover everything from investment banking, asset pricing, insurance and market structure to financial modeling, treasury operations, and accounting. Everything You Need to Know About Smart Contracts: A Beginner's Guide, Also on Hackernoon5. They expect same from stores.Stores have to open data of user behavior with brands in the deeper level like style trait room visits, a style which has more hand touch and sales graph with user profiling. (It is a complicated process, and creative ideas are needed.)Basic Process of Supply ChainSupply Chain in 2025:Supply Chain in 2025Stakeholders have to open data to work with each other. Humans will interact with natural language, and it has to be converted to actionable items, event recording, stage shifting and consent given/not given the model.Consensus Model will be based on the Byzantine General problem. It will need machine learning on past data and conversation.Mode of Communication of StakeholdersStore, Brand, Manufacturer, Supplier, and Shipping companies.Email(Heavy used system with maximum inefficiency)Image Proof/CCTV footage(Applied to all stakeholders.)Excel Sheet (Non-standard Formats and highly different across emails and ecosystem.)RFID(Complicated and temper-proof with maximum implementation by each stakeholder. Say that you want to sell something relatively expensive, like a newer car. We have taken the process from brand ordering to manufacturer and manufacturing orders to suppliers.Manufacturer Chain to specific orderRFID Data in the same BlockchainWe are giving you an example from a Brand perspective. Assuming we have low ranking suppliers (low ranking means delaying inventory suppliers) in particular brands. If and when any changes are made by either party, a smart contract automatically reflects that by generating a new version of the contract in the blockchain. The smart contracts also make it much safer to execute this kind of money-transfer agreement online. e.g, Change of date for the expected time of delivery cannot be done, supplier. Otherwise, it will become obsolete, cumbersome, costly and time consuming to upgrade.Upgrades are tough in blockchain. This authority, or "administrator," is usually a business or company, and the information is stored in a single location called a node. It should be tracked and inserted in chain.Few events will require double confirmation before entering in the chain. At a level of inconsistency, we need flags and systems.Upgrades will always be deployed at network start genesis chain start level, which is order from store or brand. Eg. Fedex Tracking API is easy. The institute has a faculty of industry leaders and offers a range of program delivery options, including self-study, online courses, and in-person classes. Top 10 Reputable Blockchain Development Companies, Also on Hackernoon3. A node is simply any computer or electronic device that participates in the peer-to-peer blockchain network. Both parties will verify smart contract code and accept. Then teams can create proper roles and data pack they are generating in System.Data Packet Design for Blocks in the chainData Block insertion rights, editing rights, and updates rights.Data Block planning, stage segregation systems, Flags from one status to another, highlighting blocks and confirmation of stage crossing.Blockchain Nodes for team stage crossing and coloring system with a satisfaction level.Consensus between team for crossing stage, creating orders, ETD and actionable buttons will be planned.Conflict Data Blocks inside the chain. As events are immutable. AI in 2019—What Tech Companies are Betting Big On76. Many processes and orders are pending and waiting in the long supply chain due to approvals and confusions if we share that information with other stakeholders concerned with it. IBM, Microsoft, and Amazon. We will not give control to stakeholders to edit expected time Deliver (ETD) without Manufacturer permission or Manufacturer to edit expected time deliver (ETD) without Brand Approval.Controlling Access, Permission for reading, writing, and editing based on need-to-know and involvement is essential.In case of an upgrade, the code should have a version number in each block to understand the algorithm and study those blocks. Photo Courtesy: WaitforLight/Getty Images One of the primary differences involves a concept called centralization. One of the reasons that decentralized applications have become especially popular in the cryptocurrency world is that they tend to offer better security than centralized systems. Once accepted it would be implemented in that stage or at purchasing order.It has to record a chain of events by a machine to machine, machine to software and software to software interaction. It will need a consensus of trust and confidence to do business together.Suppliers have to open current raw material and finished good inventory to Manufacturers before purchasing order. If Brand is giving an order to Manufacturer following data should be added in Blockchain for better tracking and following up with teams.Using RFIDs in Supply ChainThe small process explained for RFID implementation and data generation:Raw Material entry in ProductionProduction startedFinished Production in FactoryFactory Shipped to Forwarding WarehousesShipmentsShipment to the destination in DirectShipment to US WarehousesReceived in US WarehousesShipping to Client to StoresReturn ShipmentThe chain will be having all data blocks coming from RFID devices and stitched to the chain.

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