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Developing a Reliable Service System of Charity Donation

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ABSTRACT: Zeroing in on the covering spaces of the co-ordinations business with countless mature blockchain applications and the public government assistance industry that requires high straightforwardness and believability, this paper plans and carries out an inventive charity co-ordinations stage dependent on blockchain innovation through the Ethereum stage. Our foundation utilizes the open, straightforward, and unavoidable elements of the blockchain, joined with a one of a kind Responsibility Relay System and Evaluation and Reporting Mechanism, and can accomplish the consistency of the information on the chain with true status, just as the credibility and straightforwardness of magnanimity co-ordinations information. This paper likewise sets up a model for assessing magnanimity material gifts for social government assistance dependent on the exemplary organization's most extreme stream calculation. Following four months of observational investigation, we have inferred that the blockchain stage can enormously expand the client's confidence in the venture, upgrade the framework's neatness coefficient and increment the nature of generously raised materials, consequently working on the public government assistance of beneficent gifts. The paper reaches the inference that this blockchain stage is a specialized answer for augmenting social government assistance.

KEYWORDS: Data Security, Smart Contract, Charity Application, Algorithm AES, Blockchain technology.

I. INTRODUCTION

Blockchain technology derived from Bitcoin is considered a subversive innovation of the computing model after mainframes, personal computers, and the Internet. A blockchain is strictly defined as a counterfeit-proof, irrevocable, decentralized cryptographic common ledger that chronologically combines data blocks into certain data structures. Therefore, pervasive blockchain technology is a new decentralized infrastructure and a distributed computing paradigm that uses encrypted chain block structures to review and store data and uses smart contracts to manipulate data on the blockchain. Technology has many areas of transparency, openness, traceability, and irrevocability for its broad application perspectives, as well as the areas of the common good and logistics trace ability are discussed in this article. In the area of public welfare, the total value of donations collected in 2016, using the data reported by China Charity Fed as an example, was 18.789 million yuan, including 578 million yuan of monetary donations, which is only 3.08. Equivalent to 18.211 conversion, corresponding to 96.92 percent.

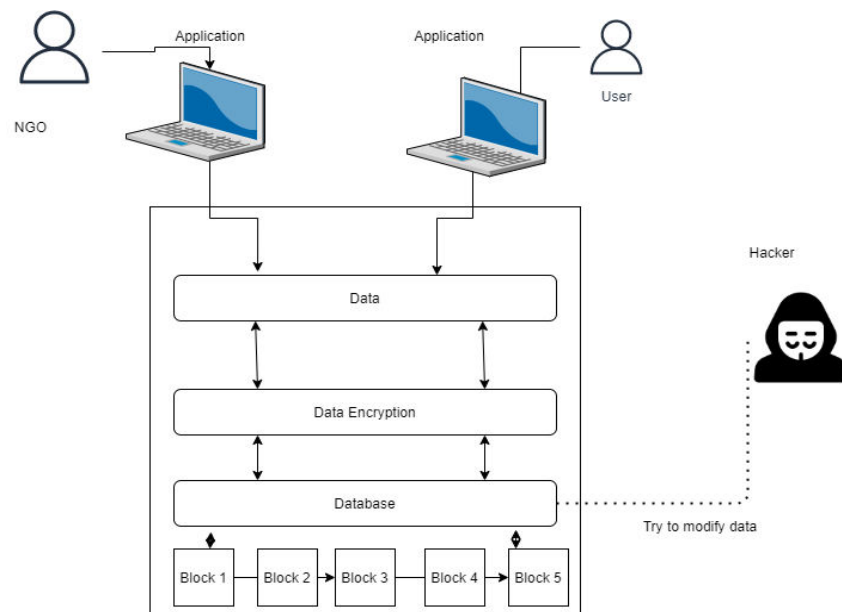
II. LITERATURE SURVEY

In recent years, the strategic status of logistics services in world-class firms has increased [4]. A series of surveys for logistics professionals have been conducted, which show that blockchain technology is expected to have a significant impact on the logistics industry [5]. The supply chain is defined as the various points involved in the production and delivery of a commodity from factory to customers [6]. Due to the complexity of the overall industry chain, tracking the origin of products has become more difficult. In addition, customers cannot determine the true value of the product or service and the responsibility for illegal incidents related to the supply chain, because of the lack of transparency in the supply chain. Blockchain technology brings a new perspective for the challenges in logistics supply chains with its transparency and indispensable modifications [7]. Countless efforts have been devoted to researching issues about how to use the blockchain to improve supply chain logistics traceability and management. Kari Korpela and Jukka Hallikas presented cloud integration to provide a cost-effective business model for the interoperable digital supply chain [8]. The authors in [9] proposed a certification model for supply chains based on the blockchain, which provided a new method for blockchain application in the B2B+B2C supply chain. Many companies have also begun to cooperate with

blockchain application development companies [10]. IBM is a pioneering firm in this field, studying the role of blockchain in the supply chain. U.S. retail giant Walmart plans to launch a pilot project to track the production of pork in China and its production in the United States based on distributed ledger technology [10]. In addition to the economic and commercial fields, blockchain technology can be applied to any area where the authenticity, traceability, and security of transactions are required. The global charity sector also faces the challenge of lack of transparency and lack of trust between donors and charities because of corruption. Several Indian scholars led by Apurv Mehra aimed to design a credible framework based on leverage blockchain technology which would enable philanthropic donations to be as trusted and transparent as direct charities [11]. Danushka Jayasinghe contributed to a new philanthropic model that leverages the Bitcoin blockchain [12]. In China, material philanthropic donations account for 25% of the total value of donations, with 26.3 billion philanthropically donated items, which is an undeveloped field in the charity market. There is a huge need for information transparency [3]. At present, nearly all philanthropic donation applications apply to fundraising. Through deep investigation of some public non-profit organizations, it is known that, due to the requirements of China's relevant policies, a large number of philanthropic donation money will also be exchanged for donations goods before transportation. So, this paper puts forward a supply logistics information platform applied to the philanthropic donation goods yield along with blockchain technology. It provides transparent, credible, traceable and irrevocable logistics information services for billions of philanthropy logistics markets.

III. PROPOSED METHOD

A. SYSTEM DESIGN



B. IMPLEMENTATION

• USER

Check request from NGO.
Donate money.

• NGO

Post request for donation.
Check status.

• HACKER

Try to change data of transaction.



IV. CONCLUSION

We have proposed a framework utilizing Block-chain alongside digital currency for a noble cause work to make it more straightforward through a decentralized framework. Urbanization has made a ton of individuals more worried about others and this has made a ton of individuals charitable. And yet there are additionally individuals who need to at last bring in unlawful cash all the while. This framework will give both the necessities which are better credibility and security. Likewise, it will furnish with a believed framework and will make the whole cycle more straightforward. This will help dispose of center men between contributors and noble cause practitioners.

REFERENCES

- [1] S. Nakamoto, "Bitcoin: a peer-to-peer electronic cash system," 2008.
- [2] Ministry of Industry and Information Technology, "Ministry of industry and information technology: white paper on 2016 blockchain technology and application development in China," 2016.
- [3] T. Yang, "Annual report on China's philanthropic development (2016)," Chinese Academy of Social Sciences, 2016.
- [4] J. T. Mentzer, D. J. Flint, and G. T. M. Hult, "Logistics service quality as a segment-customized process," *Journal of Marketing*, Vol.65, October 2001, pp.82–104.
- [5] N. Hackius, M. Petersen, "Blockchain in logistics and Supply Chain: Trick or Treat?," *Supply Chain Management and Logistics*, Wolfgang Kersten, Thorsten Blecker and Christian M. Ringle (Eds.), October 2017.
- [6] M. C. Cooper and D. M. Lambert, "Supply chain management: More than a new name for logistics," *The International Journal of Logistics Management*, January 2014.
- [7] I. Britchenko, T. Cherniavska and B. Cherniavskyi, "Blockchain technology into the logistics supply," *Development of small and medium enterprises: the EU and east-partnership countries experience: collective monograph*, Igor Britchenko and Yevheniia Polishchuk(Eds.), March 2018, pp. 307–318.
- [8] A. Badzar, "Digital supply chain transformation toward blockchain integration," *SMMM20 Masters Thesis*, Helsingborg, May 2016.
- [9] J. Zhu and Y. Fu, "Blockchain-based supply chain dynamic multi-center cooperative authentication model," *Chinese Journal of Network and Information Security*, Vol.2 No.1, January 2016, pp.27–33.
- [10] K. Sadouskaya, "Adoption of blockchain technology in supply chain and logistics," April 2017.



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