

NOT ALL HEROES WEAR CAPES.

BLOOD BANK

Give the gift of blood and help
save a life.

Blood is one of the most important essentials of human life. The journey of blood from a donor to a receiver is a complex landscape process. The blood after donated is tested, stored, transported and finally transfused. But when the blood is donated in many places the details of the sample are written using pen and paper or on traditional servers. Bloodline helps conquer this issue using blockchain technology. This helps in tracking the blood from the time it is donated, till it is transfused. When the blood is donated, the blood camp that takes the blood will create a new block that will store the blood. every transaction details are

Result

Our project aims at improving the existing Blood supply chain management system. We propose an innovative blood collection chain system based on blockchain technology using a distributed ledger structure and transaction execution process of the situation where the collected blood reaches the final stage - hospitals. Existing centralized blood management systems have various drawbacks including lack of information on blood bags, inability to reflect real-time updates in details and the trust factor. In this respect, the blockchain technologies offer the possibility to maintain a transparent blood management system, especially since data cannot be counterfeited and tampered with. In addition, the system stores blood contracts between hospitals in the event of emergencies through the transaction and consensus flows. This approach is to allow hospitals that are far from the blood banks to accrue blood supply in emergency situations. Since blood has a certain storage period, it is expected that it will be possible to fulfill the demand of blood bags by supplying and using the bags that are nearing their expiration. Not only does it solve the primary purpose that is it helps to save lives, but it will also act as a waste management strategy for Blood by using near expiration bags first. Keywords: Blockchain, Blood, Supply Chain Management, Distributed Ledger.

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