

Implementing a Reputation Token in Blockchain (Ethereum)

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Recently, there is a growing interest in using immutable distributed ledgers to implement decentralized applications that otherwise require a centralized trusted authority. One example of such applications is the reputation management on web based platforms. Reputation scores may incentivize people to contribute high quality content such as data, reviews, ratings, opinions, answers, products etc for the community.

The goal of this project is to implement a simple reputation token in Ethereum. The system, based on the correctness of the data contributed by a participant, should increase/decrease her reputation scores. The scores must also be determined in a decentralized manner without assuming any *accessible trusted sources of correct information*. The design of such a system may be very different from the currently available decentralized reputations systems. For example, the participants may not directly score one another but the data reported by them will be indirectly used by the system to come up with the scores.

You must be a senior masters student with a strong background in development and coding. You should either have some background in building apps in ethereum or be excited to learn quickly about it on your own. Enthusiastic undergraduate students with prior exposure to ethereum technology may also contact.

References :

1. Dasgupta, Anirban, and Arpita Ghosh. "Crowdsourced judgement elicitation with endogenous proficiency." *Proceedings of the 22nd international conference on World Wide Web*. ACM, 2013.
2. <http://www.verity.site>
3. <http://trustdavis.io>
4. <https://blog.colony.io/the-colony-reputation-system-5616293c3949>

Introductory Video :

1. <https://www.youtube.com/watch?v=mjMLrVLoDmE>