BlockChain powered CryptoCurrency reward system to promote sustainable development

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Suggested Solution to Solve Problem

1. Problem Definition

The aim of this project is to employ Blockchain technology to implement a reward based cryptocurrency network, which allows and motivates citizens to achieve sustainable development goals by contributing to their community. This contribution is measured through a proposed community interaction platform

2. Purpose

The motivation behind this project is to address and participate in particulars of the 17 United Nations goals for sustainable development. More specifically we aim to achieve 2 of the 17 UN goals: “Partnership for the goals” and “Sustainable cities and communities”.

Sustainable development has been a theoretical solution to the climate crisis our world is facing. While solutions continue to pile in, viable implementations and real world architectures are yet to be created. Combining incentive and trending technologies, this project aims to promote the use of sustainable development solutions like solar panels and recyclable utensils that are often not purchased due to high price/maintenance costs, and in-turn promote community cooperation as well.

By creating a community interaction forum, we look to foster collaboration and constructive discussion amongst members of a community and help each other out. The amount of this interaction is based on the interesting incentive that is offered, a cryptocurrency created using blockchain specifically for this purpose only.

Furthermore, using the proposed community interactive forum and its consequent cryptocurrency rewards, community members can purchase a range of sustainable development products on a created online e-commerce platform. People can purchase items like solar panels, recyclable utensils, plants and garden products, and many more.

In the future, this project is aimed to be a framework for promoting the use of sustainable development products to help repair the damage done to our world and cultivate environmental conservation at every household.

3. Solution

Till now, we have performed the literature survey and analysed the recent methods used by authors to integrate blockchain technology with cryptocurrency.

We believe that our system is a novel ideology that utilizes the blockchain technology powered cryptocurrency and associates it with our sustainable development goals.

We split the project into 3 parts.

1. Implementing the blockchain to create and track the cryptocurrency (Purely backend)
2. Creating the user interface to keep count of the balance and the platform they can use to buy sustainable products. (Front -end predominantly and a connection to backend)
3. Obtaining the community interaction forum and connecting the cryptocurrency as a reward to the contributions of the users on our platform.

4. Requirements

To build a complete blockchain-powered cryptocurrency. We need a backend server to send the request and full testing of the suite. We are using a Node JS server with an express API. So, you are thinking what is Node.js. It is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the Chrome V8 engine and executes JavaScript code outside a web browser. Express, is a back end web application framework for Node.js, released as free and open-source software under the MIT Licence. It is designed for building web applications and APIs. To display the user about the details related to the backend we need a frontend web application. We are going to use React JS framework for the front development. Now , we have created a website and connected it with a server but how all the people can access it for that we are going to deploy the fully working website using Heroku (Cloud Application Platform) which help us to store the data on the cloud and everyone can use it.

References

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