



BlockChain powered CryptoCurrency reward system to promote sustainable development

Team Members:-

Abhav Thakur - 18BLC1087

Gugan K - 18BLC1089

Sanjay Tholani M - 18BLC1090

Nagharjun M - 18BLC1129

Anirudh M - 18BLC1135

Aadil Abdul Ghani - 18BLC1151

Tarun Rahul - 18BLC1160



Abstract

As a overall definition, the aim of this project would be to utilize Blockchain to implement a reward based cryptocurrency network, which allows and motivates citizens to achieve sustainable development goals by contributing to their community.

In a deeper view,

At the moment, there are multiple solutions to promote and practice sustainable development in our world, but there lacks public cooperation and apprehension to participate in activities that are not familiar. Hence, this system aims to provide an incentive of sorts to the general public, that can encourage more citizens to utilize sustainable and alternative resources.



Abstract

The proposed system employs the currently trending ideology of cryptocurrency (additional attractive factor) with the use of blockchain systems. Community members must participate in different kinds of group forums ranging from university level virtual library and student doubt conversation platforms, to a large scale technological and everyday query and response platform (similar to Quora).

With a quality check and rating system in place, contributing community members are awarded proportionate cryptocurrency, which they can use to purchase environmentally friendly goods like recyclable items, buying solar devices, recharging electric vehicles and more.

By doing this we achieve 2 of the 17 UN goals “**Partnership for the goals**” and “**Sustainable cities and communities**”.



Objectives and suggestive action

- The proposed solution is the development of a blockchain based cryptocurrency, implemented in association with a specific community forum, and integrating it with our sustainable development objectives.
- There are a wide range of options to implement community forums, in this project we take few of the most inclusive forums that can address large groups of people, query+response and student/academic interaction forums.
- The objective is to promote both sustainable communities and public cooperation for the same.
- The attractive feature that encourages the public to participate is the proportional reward system, that rewards the public based on their contribution.
- This cryptocurrency can further be used for collaborated and integrated sustainable solutions, which the public do not utilize to the fullest.



Objectives and suggestive action

- To implement this system we need background knowledge in implementing a blockchain server network to establish the cryptocurrency.
- Additionally we need means to implement such community forums as web based services or mobile applications.
- Finally we need the integrations of volunteered sustainable solutions given the accessibility and feasibility.



Technologies Used and Methodology description

To build a complete blockchain-powered cryptocurrency . We need a backend server to send the request and full testing of suite. We are using 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 License. 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.



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This can be implemented on large scale as Stack Overflow 2.0 which provides a platform for people to share the knowledge and to know new things like cryptocurrency.

For university students we have the virtual library where students can interact with each other share their knowledge and also help each other for the better of the future.