Date	27October 2023
Team ID	NM2023TMID06771
Project Name	Climate Tracksmart Using Blockchain
Maximum Marks	4 Marks

Project Overview

Climate TrackSmart is an innovative blockchain-based solution aimed at addressing the critical challenges of climate change and environmental accountability. The project leverages blockchain technology to create a transparent, secure, and immutable system for tracking, verifying, and incentivizing sustainable practices and carbon reduction efforts.

Purpose

1)Transparency and Trust: Climate TrackSmart aims to create a transparent and trustworthy platform for tracking and validating environmental data. Blockchain's immutable ledger ensures that all recorded information is tamperproof and can be independently verified, fostering trust among participants.

 2)Verification of Sustainable Practices: By using smart contracts, ClimateTrackSmart can automate the verification of sustainability efforts. This helps ensure that actions taken to reduce carbon emissions and promote environmental responsibility are accurately recorded and authenticated.

3)Incentivizing Sustainable Behavior: The project intends to encourage individuals and organizations to engage in sustainable practices by offering rewards and incentives. These rewards can be in the form of blockchain-based tokens, providing tangible benefits for environmentally responsible actions.

4)Collaboration and Data Sharing: Climate TrackSmartpromotes collaboration between different stakeholders, including individuals, businesses, governmental bodies, and environmental organizations. It facilitates the sharing of environmental data and best practices, creating a collective effort to combat climate change.

5)Empowering Individuals and Organizations: The platform empowers individuals and organizations to take control of their environmental impact.

LITERATURE SURVEY   Existing problem

1)Data Accuracy and Trust: Ensuring the accuracy of data recorded on the blockchain can be a challenge. Without accurate data, the verification and tracking mechanisms may be compromised, leading to incorrect assessments of environmental actions.

  2)Data Integration: Integrating data from various sources, including IoT devices, sensors, and government databases, can be complex. Inconsistent data formats and standards can hinder the seamless flow of information into the blockchain system.

3)Scalability: As more users and organizations join the platform, the blockchain network may face scalability issues. High transaction volumes can lead to slower processing times and increased costs.

4)Regulatory Compliance: Different regions and countries may have varying regulations and standards for tracking and verifying environmental data. Ensuring compliance with these regulations can be challenging, especially in a global context.

   References

1)https://metamask.io/

2)https://www.mural.co/templates/empathy

3)https://www.mural.co/templates/empathy-map-canvas