**REQUIREMENT**

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| DATE | 23OCT2023 |
| TEAM ID | NM2023TMID03128 |
| PROJECT NAME | CLIMATE TRACK SMART USING BLOCKCHAIN |

**FUNCTIONAL REQUIREMENTS**

**Data providers:** These are the organizations that will be collecting and providing data to the system. This could include government agencies, businesses, and research institutions.

* **Data users:** These are the organizations that will be using the data in the system. This could include government agencies, businesses, and investors.
* **Regulators:** These are the organizations that will be responsible for overseeing the system and ensuring that it is compliant with all applicable regulations.
* **Data collection:** The system must be able to collect data from a variety of sources, including IOT sensors, government databases, and private company datasets.
* **Data storage:** The system must be able to store the collected data in a secure and tamper-proof manner.
* **Data sharing:** The system must be able to share the collected data with authorized users in a secure and controlled manner.
* **Data analysis:** The system must be able to analyze the collected data to generate insights into climate trends and patterns.
* **Carbon credit management**: The system must be able to track and manage carbon credits, including issuance, transfer, and retirement.

**4.2 NON FUNCTIONAL REQUIREMENTS**

* **Performance:** The system must be able to handle a large volume of data and a large number of users without any significant performance degradation.
* **Availability:** The system must be highly available. so that users can access the data and services they need when they need them.
* **Security:** The system must be secure and protect the confidentiality and integrity of the data it stores.
* **Scalability:** The system must be scalable, so that it can be expanded to meet the needs of a growing user base.