

Requirements Analysis

Team ID	NM2023TMID04387
Project Name	Project – Ethereum Decentralised Identity Smart Contract

Functional Requirement:

Identity Creation:The smart contract should allow users to create a new decentralized identity by generating a unique DID and associating it with their Ethereum address.

DID Resolution:The smart contract should provide a way to resolve DIDs to their associated Ethereum addresses.

Authentication:Users should be able to prove ownership of their decentralized identity by signing messages or transactions using their private key.

DID Methods:Support for various DID methods such as "ethr" (Ethereum) or others, allowing users to choose the method that best suits their needs.

DID Document Management:Users should be able to update their DID documents to include information such as public keys, service endpoints, and other relevant metadata

Ethereum is a decentralized blockchain platform that establishes a peer-to-peer network that securely executes and verifies application code, called smart contracts. Smart contracts allow participants to transact with each other without a trusted central authority.

