

**Project Design Phase
Solution Architecture**

Date	23 october 2023
Team ID	NM2023TMID01014
Project Name	REAL ESTATE MANAGEMENT USING BLOCK CHAIN TECHNOLOGY

SOLUTION ARCHITECTURE:

Blockchain Network: Implement a private or consortium blockchain network, which ensures that only authorized participants (e.g., property owners, buyers, real estate agents) can participate in the network. Popular blockchain platforms like Ethereum, Hyperledger Fabric, or a purpose-built solution can be used.

User Interfaces: Build user-friendly web and mobile applications for different user roles, such as buyers, sellers, real estate agents, and property inspectors. These interfaces provide access to the blockchain network and allow users to interact with smart contracts.

Identity and Access Management (IAM): Implement IAM solutions to manage user identities, access control, and permission settings. This ensures that only authorized individuals can perform specific actions on the blockchain network.

External Data Integration: Connect with external data sources, such as property registries, government databases, and credit bureaus, to verify property information, ownership records, and conduct Know Your Customer (KYC) checks.

Tokenization (Optional): If fractional ownership is a feature, create a mechanism for tokenizing real estate properties. This allows properties to be divided into tokens that represent ownership shares and can be traded on the blockchain.

Solution Architecture Diagram:

