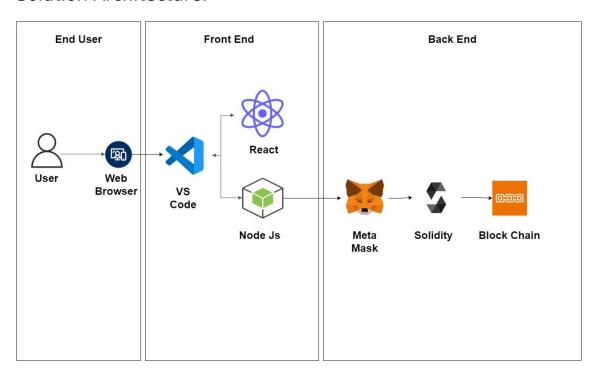
ProjectDesignPhase-I

Solution Architecture

Date	23 OCTOBER 2023	
TeamID	NM2023TMID00899	
ProjectName	Ethereum Decentralised Identity Smart Contra	act
Trojectivanie		
MaximumMarks	4Marks	

Solution Architecture:



Solution architecture Description:

Front End:

User Interface (UI):

☐ The frontend development phase begins with creating a userfriendly interface for users to interact with the Ethereum DID smart contract. This includes web or mobile applications where users can manage their identities, keys, another associations.

Wallet Integration:

☐ Integration with Ethereum wallets is essential to manage and sign transactions. Ethereum wallets allow users to interact with the

smart contra verification.	act securely and sign messages for identity
DID Management:	
update, and	erfaces should provide users with the ability to create, revoke their DIDs. These interfaces may include outting identity data and options for managing keys information.
Interaction with Smart (Contracts:
with Ethereu web3 librarie perform vari	velopment involves writing code that communicates im smart contracts. This typically involves using es to send transactions, query contract data, and ous DID-related operations.
BACKEND:	
Smart Contract Develop	oment:
manages DII writing, testi	Ethereum DID systems is the smart contract that Ds, keys, and related data. This phase involves ng, and deploying smart contracts to the Ethereum Smart contracts handle the validation, creation, and it of DIDs.
Blockchain Integration:	
☐ Backend dev blockchain. ¬	velopment also includes integration with the Ethereum This includes setting up infrastructure to interact with metwork and handling events emitted by the smart
Identity Verification Ser	vices:
verification s	eum DID systems may incorporate identity services, which could be part of the backend. These y include mechanisms for verifying the authenticity of ms.
Encryption and Security	
Ensuring the backend dev	security of user data and keys is a crucial aspect of velopment. Backend components may involve secure storage, and key management.
Event Handling:	
Smart contra should have	mechanisms to listen to and handle these events for ers of changes in their DIDs.