# **Open Source Frameworks**

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

## Available frameworksHardhat:

Ethereum development environment for professionals. Ape - The smart contract development tool for Pythonistas, Data Scientists, and Security Professionals. Web3j - A platform for developing blockchain applications on the JVM. Create Eth App - Create Ethereum-powered apps with one command.

## **Ethereum Decentralized Open Source:**

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.

## open source Ethereum:



Ethereum is an open source blockchain based platform that is used to build Decentralized Apps.

#### Client

#### Front End

Web3-Interact with Smart contract

React - Client-side UI

#### Wallet

MetaMask-Managing personal accounts and private keys

## Server

## **Back End**

## Truffle

Development Framework for Smart contracts

#### **Ethereum Nodes**

Ganache- Local private network for smart contracts development

Testnets -Public test networks for smart contracts development before deploying to the main network

Main Network - Public networks for actual smart contracts development