COURSE NAME: **BLOCKCHAIN**

GROUP NUMBER:**07**

PROJECT TITLE:**BLOCKCHAIN IN IDENTITY IN MANAGEMENT**

PROJECT SUBMITTED TO: **ANNA UNIVERSITY/NAAN MUDHALVAN**

YEAR: **II YEAR (2022-2023)**

DEPARTMENT: **ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

SEMESTER:**04**

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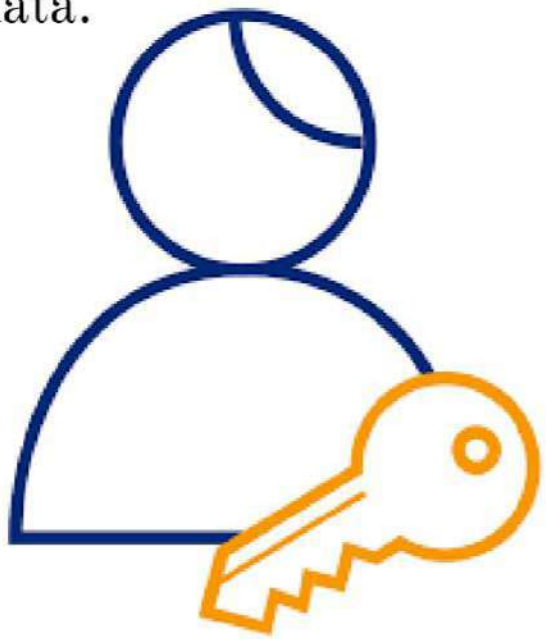
GUIDED BY:**Ms. S.H. ANNIE SILVIYA**

SPOC NAME: **Dr. SRIDHAR S**

Identity Management

Identity management refers to the processes and technologies used to manage and protect digital identities. This includes the management of user authentication, authorization, and access control for computer systems, networks, applications, and data.



Personal Data Theft

Proving your identity

Produce and provide identity documents

Prone to hacking

Lack of transparency & control

- Lack of transparency
- No clarity on the usage and access rights of the data of the consumer
- Users' data sold to third parties without their consent and knowledge
- Data, then, used for marketing and selling by these parties

Decentralized identity

With a blockchain-based identity system, users can have complete control over their own identity data, rather than relying on centralized authorities such as government agencies or corporations. This can provide greater privacy and security for users.

Verification of identity

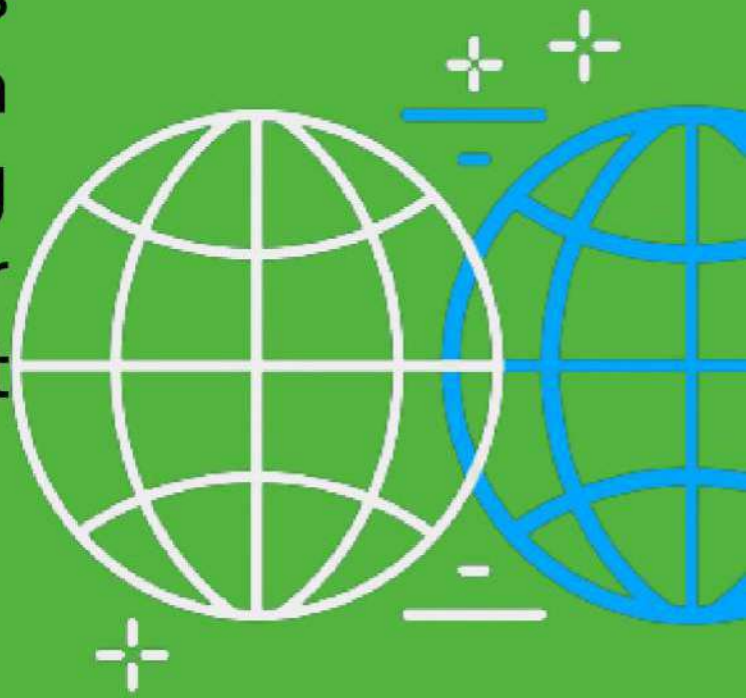
Blockchain technology can be used to verify the authenticity of identity documents such as passports or driver's licenses. This can help prevent fraud and identity theft.

Immutable records

Once data is recorded on a blockchain, it cannot be altered or deleted. This can ensure that identity data remains accurate and trustworthy.

Interoperability

Blockchain-based identity systems can enable interoperability between different identity systems, allowing users to easily access and use their identity data across different platforms.

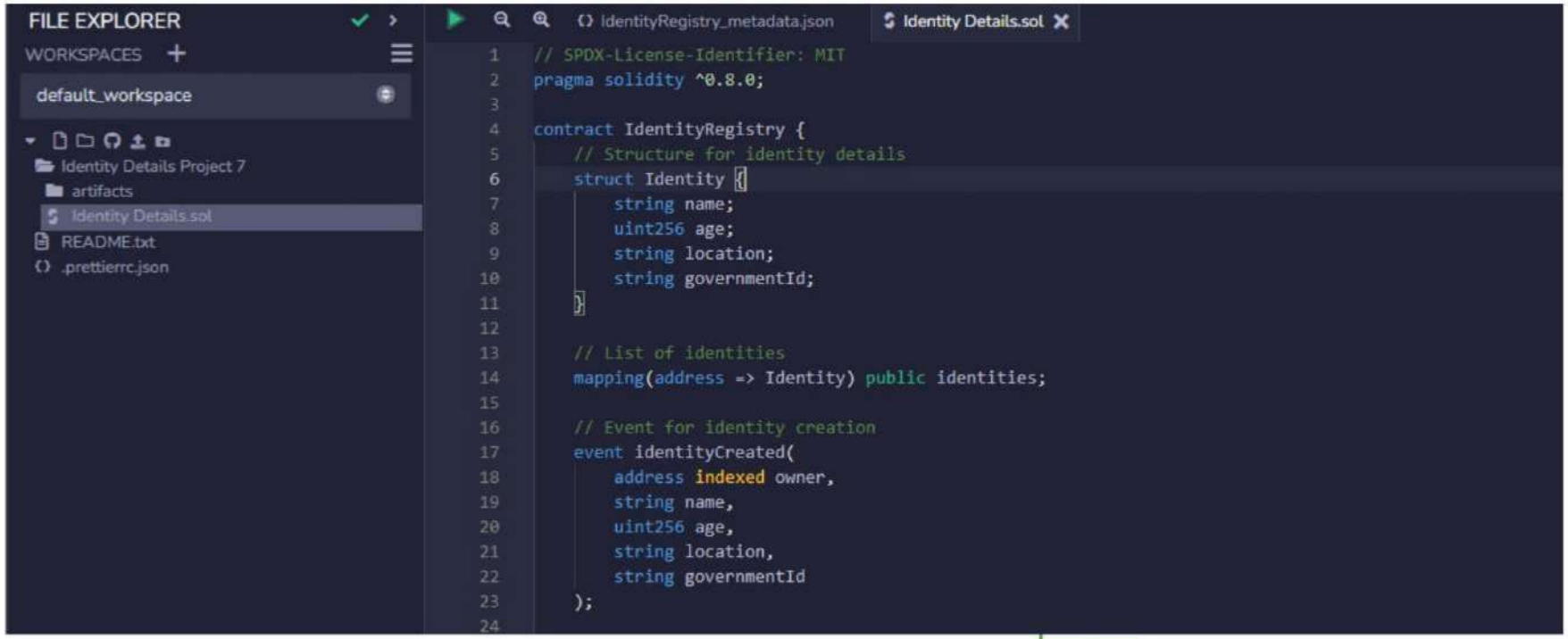


Self-sovereign identity

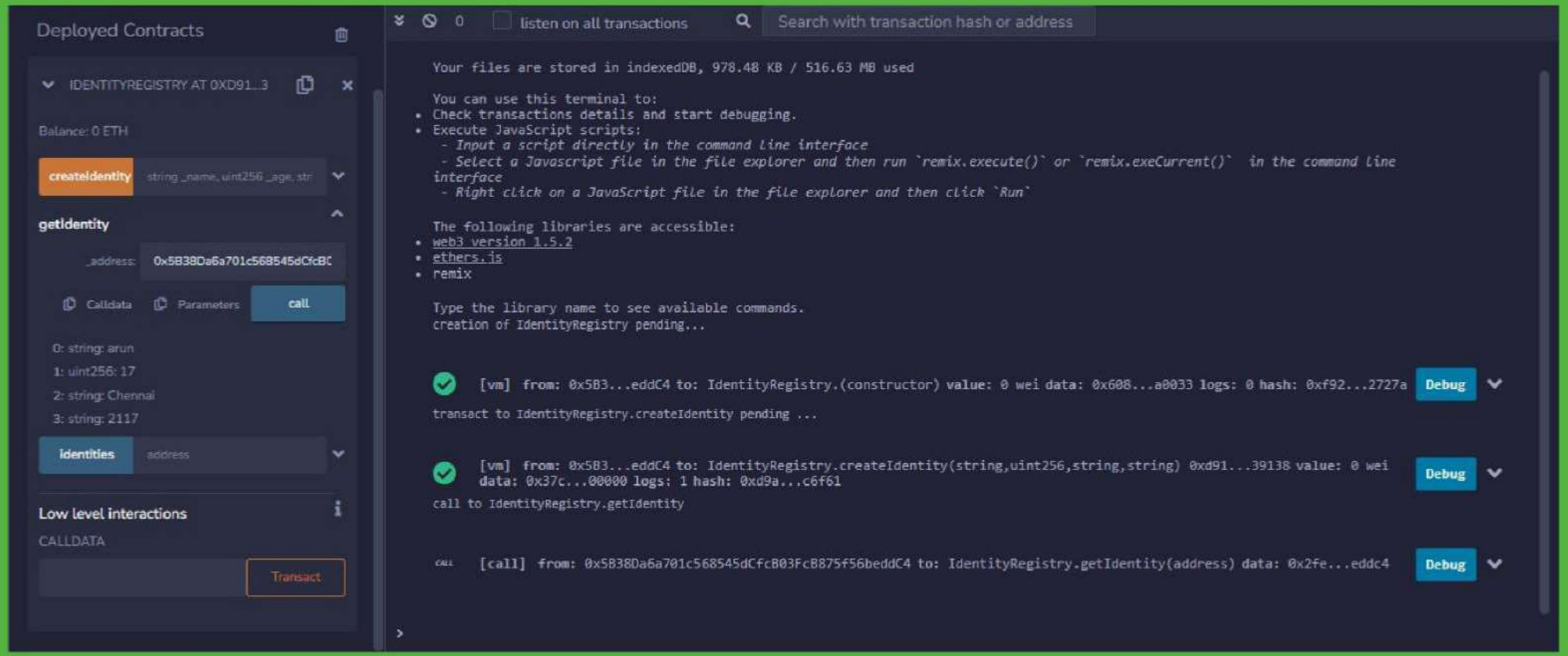
With a blockchain-based identity system, individuals can create and manage their own digital identities without the need for intermediaries. This can give users greater control over their personal data and how it is shared.

code work on solidity

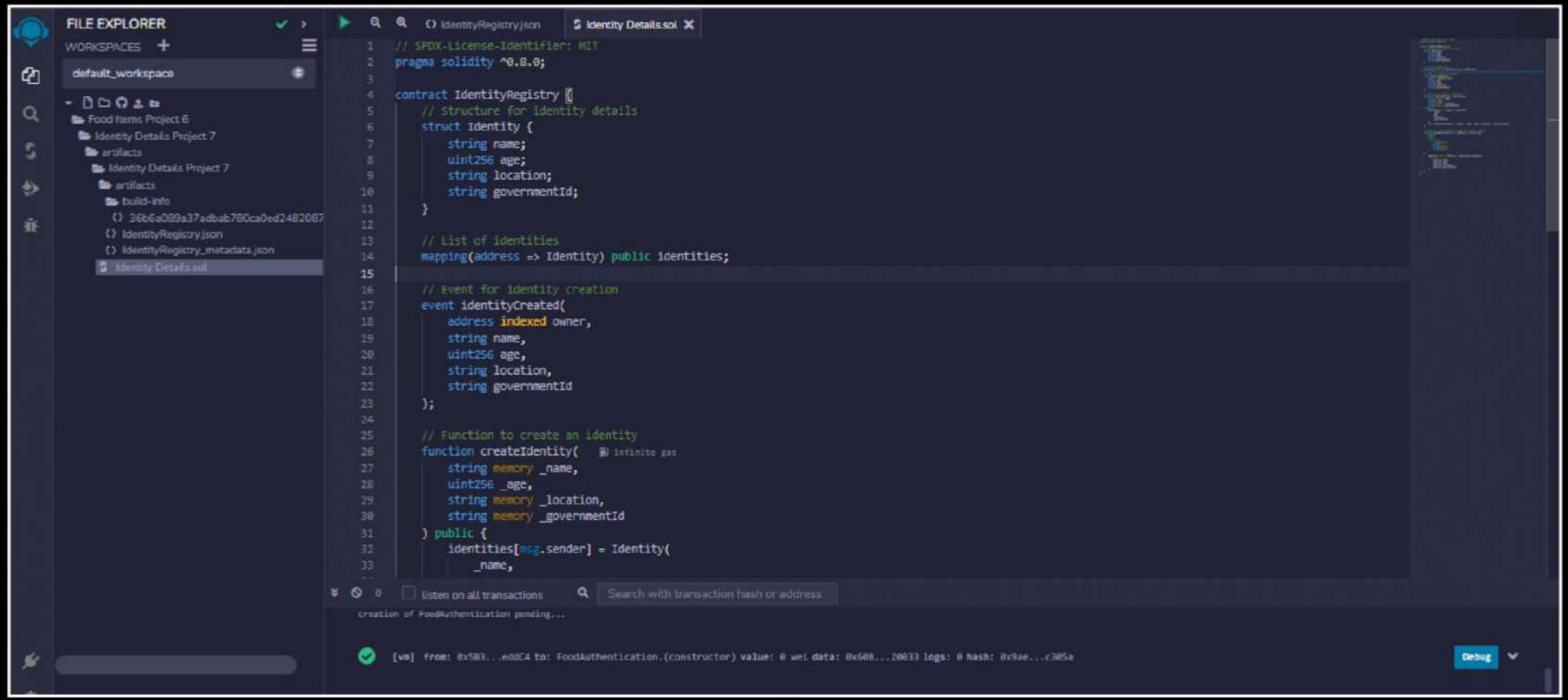
Elaborate on what you want to discuss.



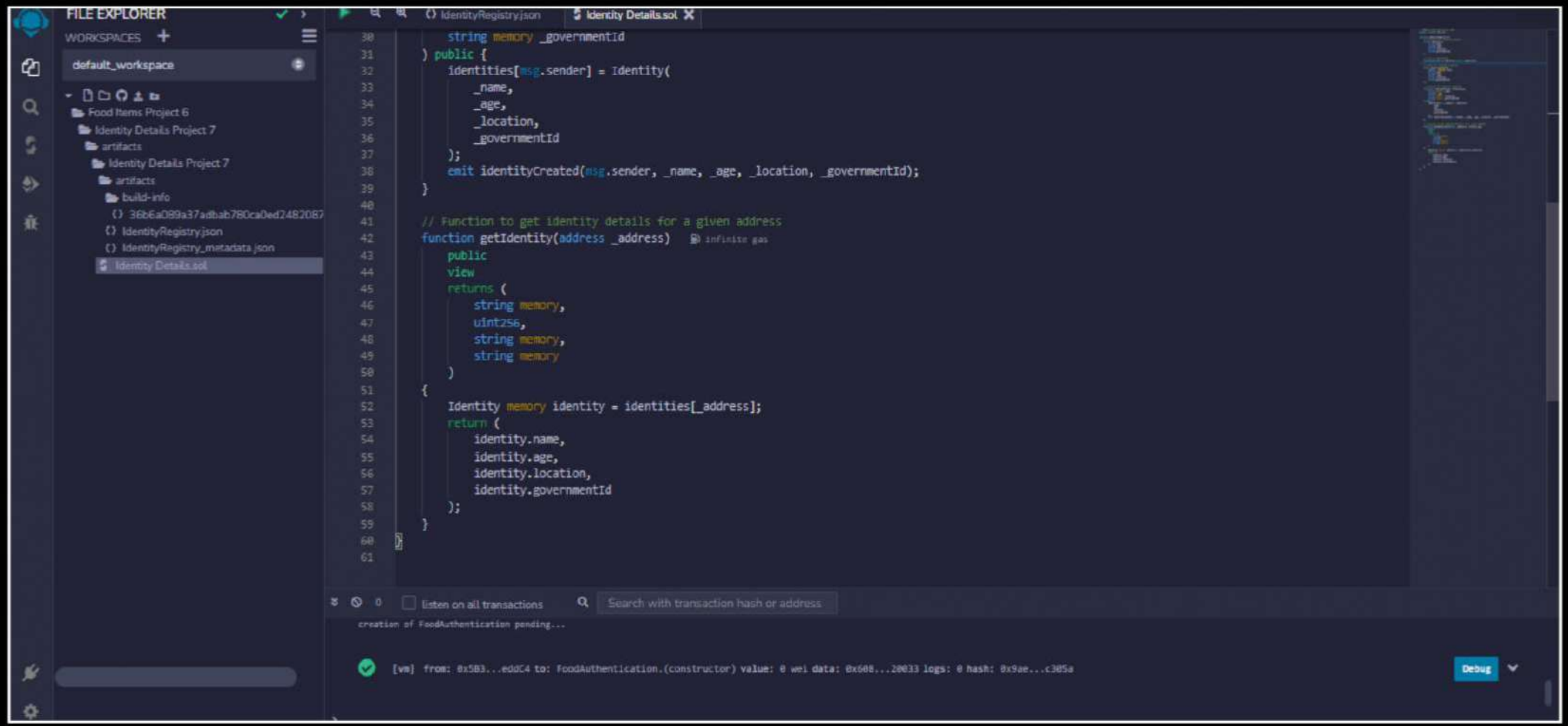
My Work



What can you say about
your projects? Share it here!


FILE EXPLORER
WORKSPACES
default_workspace
Food Items Project 6
Identity Details Project 7
artifacts
Identity Details Project 7
artifacts
build-info
36b6a089a37adbab7B0ca0ed24820B7
IdentityRegistry.json
IdentityRegistry_metadata.json
Identity Details.sol
IdentityRegistry.json
Identity Details.sol
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract IdentityRegistry {
// Structure for identity details
struct Identity {
string name;
uint256 age;
string location;
string governmentId;
}
// List of identities
mapping(address => Identity) public identities;
// Event for identity creation
event identityCreated(
address indexed owner,
string name,
uint256 age,
string location,
string governmentId
);
// Function to create an identity
function createIdentity(infinite gas
string memory _name,
uint256 _age,
string memory _location,
string memory _governmentId
) public {
identities[msg.sender] = Identity(
_name,
0
listen on all transactions
Search with transaction hash or address
creation of FoodAuthentication pending...
[vm] from: 0x5B3...eddC4 to: FoodAuthentication.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x9ae...c305a
Debug

CODE :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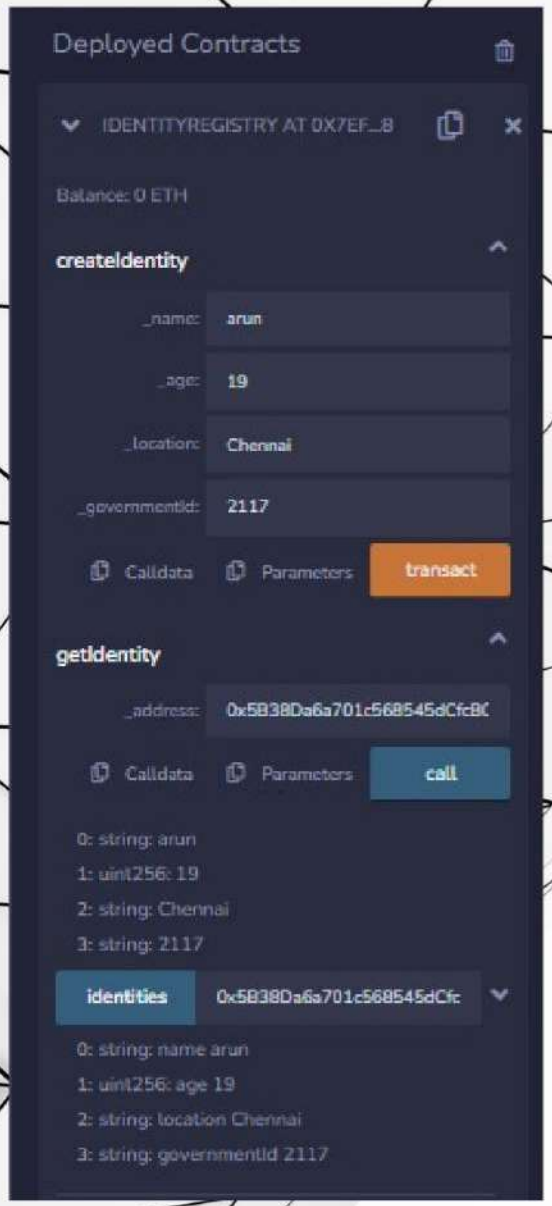
IdentityRegistry.json
IdentityRegistry_metadata.json
Identity Details.sol
IdentityRegistry.json
Identity Details.sol
string memory _governmentId
) public {
identities[msg.sender] = Identity(
_name,
_age,
_location,
_governmentId
);
emit identityCreated(msg.sender, _name, _age, _location, _governmentId);
}
// Function to get identity details for a given address
function getIdentity(address _address) infinite gas
public
view
returns (
string memory,
uint256,
string memory,
string memory
)
{
Identity memory identity = identities[_address];
return (
identity.name,
identity.age,
identity.location,
identity.governmentId
);
}
Listen on all transactions
Search with transaction hash or address
creation of FoodAuthentication pending...
[vm] from: 0x5B3...eddC4 to: FoodAuthentication.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x9ae...c305a
Debug

finally our work & output



Thank You