### **Project Design Phase-I**

### **Solution Architecture**

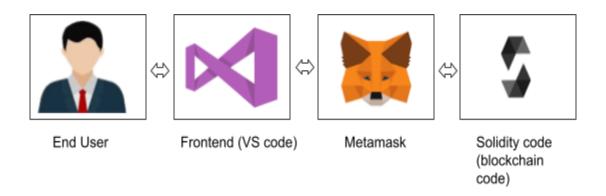
Date	30 October 2023
Team ID	13178E474296D588919458C07B021B8F
Project Name	Transparent Toll-Free Data Management
Maximum Marks	10 Marks

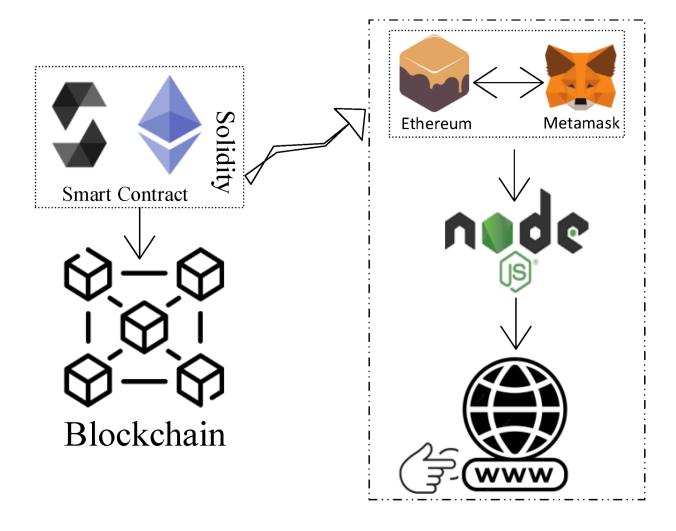
### **Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

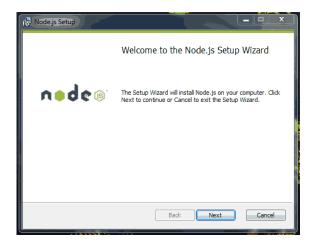
# **Example - Solution Architecture Diagram:**





### Prerequisites:

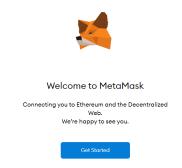
### Step 1:



# Step 2:

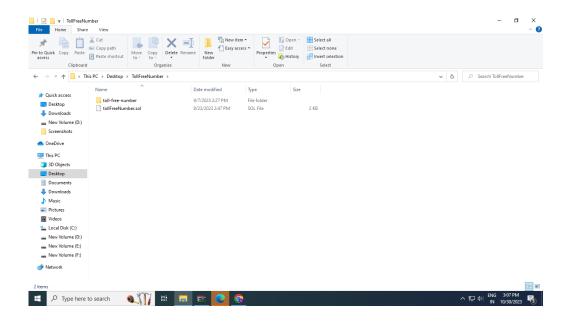


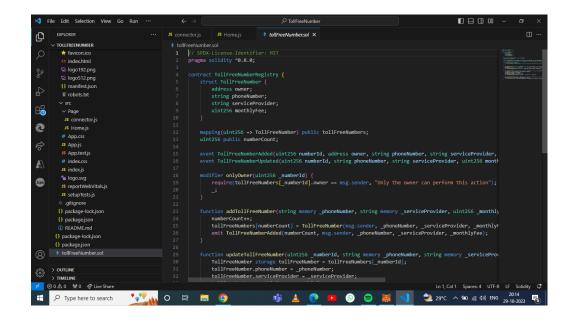
## Step 3:



#### Steps to complete the project:

### Step 1:





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                                                                                                                                                                                         ... JS connector.js JS Home.js 🕏 tollFreeNumber.sol 🗙
Ф
        EXPLORER
           logo192.png
                                                                   contract TollFreeNumberRegistry {
   struct TollFreeNumber {
      address owner;
      string phoneNumber;
      string serviceProvider;
      uint256 monthlyFee;
}

    robots.txt

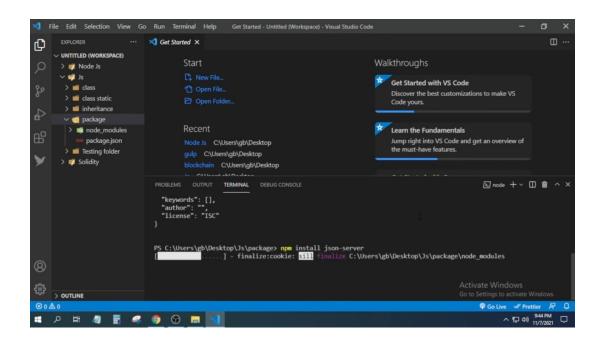
 PageJS connector.jsJS Home.js
 0
                                                                       mapping(uint256 => TollFreeNumber) public tollFreeNumbers;
uint256 public numberCount;
           # App.css
JS App.js
JS App.test.js
                                                                       event TollFreeNumberAdded(uint256 numberId, address owner, string phoneNumber, string serviceProvider, event TollFreeNumberUpdated(uint256 numberId, string phoneNumber, string serviceProvider, uint256 month
                                                                       modifier onlyOwner(uint256 _number1d) {
    require(tollFreeNumbers[_number1d].owner -- msg.sender, "Only the owner can perform this action");
           • logo.svg

Js reportWebVitals.js

setupTests.js
Jscn
          () package.json
() README.md
() package-lock.json
         {} package.ison
 tollFreeNumber.sol
                                                                        function updateTollFreeNumber(uint250 _numberId, string memory _phoneNumber, string memory _serviceProv
TollFreeNumber storage tollFreeNumber = tollFreeNumbers[_numberId];
tollFreeNumber _phoneNumber;
tollFreeNumber.serviceProvider = _serviceProvider;
> OUTLINE
> TIMELINE

S 0 \( \Delta \) 0 \( \Delta \) 0 \( \Phi \) 1 Live Share
                                                                                                                                                                          Ln 1, Col 1 Spaces: 4 UTF-8 LF Solidity C
```

#### Step 2:



### Step 3:

