

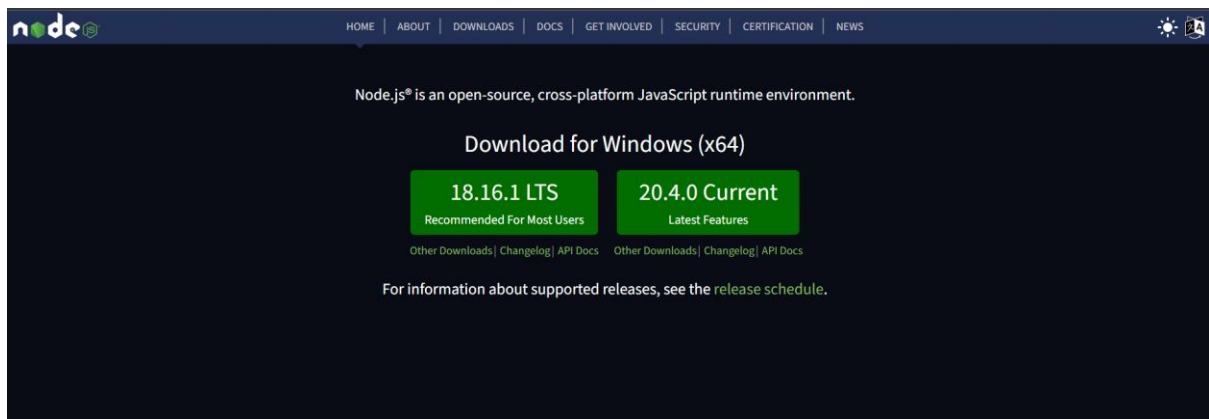
MANUAL STARTUP SYSTEM

Setup System

Installation Requirement

1. Node.js
2. MySQL
3. METAMASK
4. Connect METAMASK to Polygon Mumbai Testnet
5. Smart Contract Ownership

Node.js



Install node.js in your operating system

```
Microsoft Windows [Version 10.0.19045.3208]
(c) Microsoft Corporation. All rights reserved.

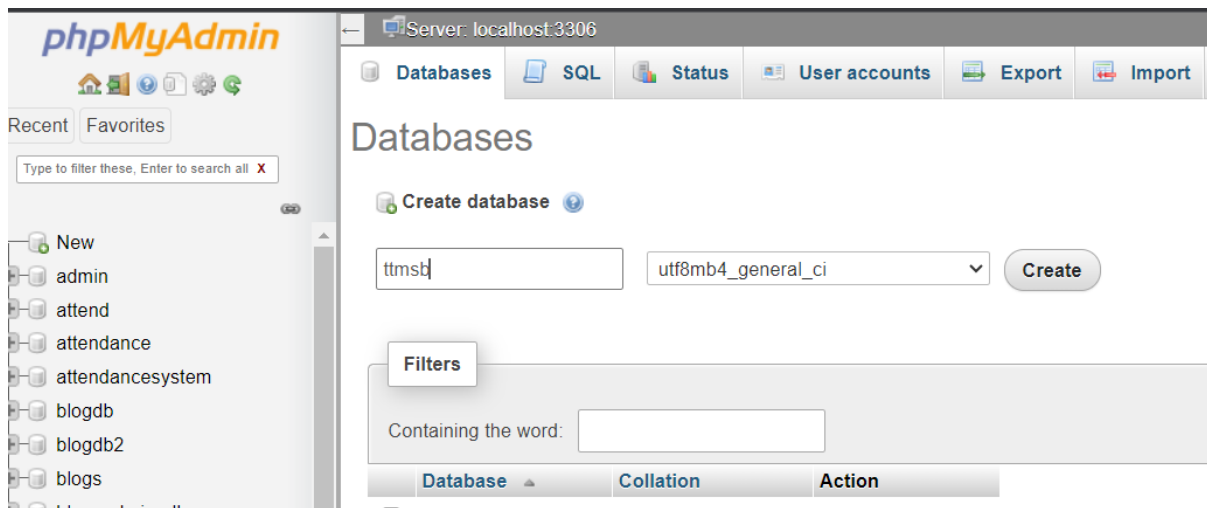
E:\TTMSB\TTMSB>npm install
```

Run in powershell npm install on the system directory to install all dependency

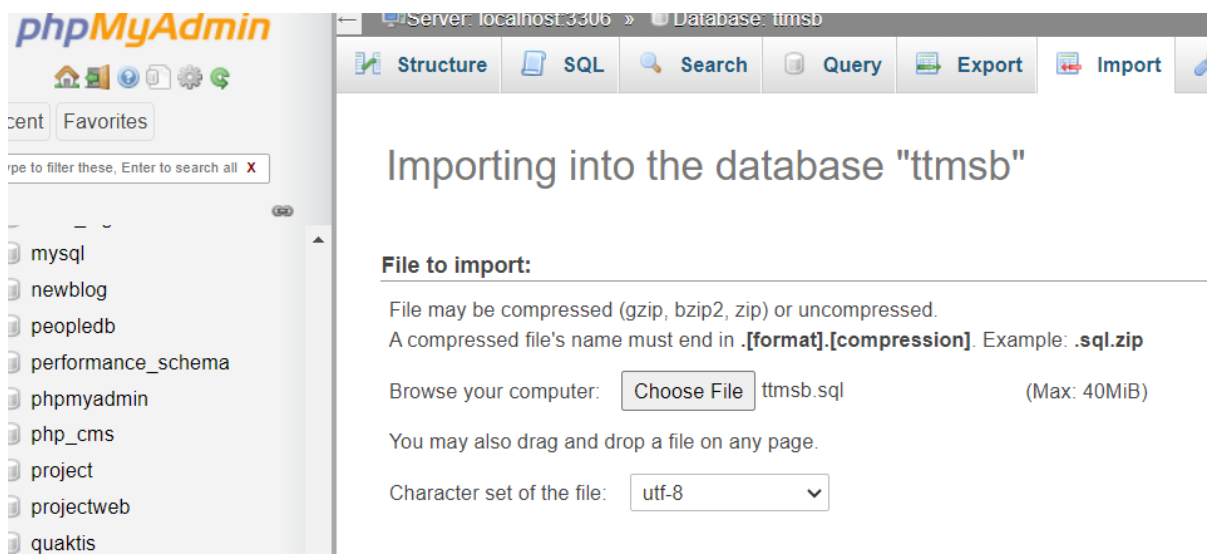
MySQL



Install XAMPP for PHPMyAdmin MySQL



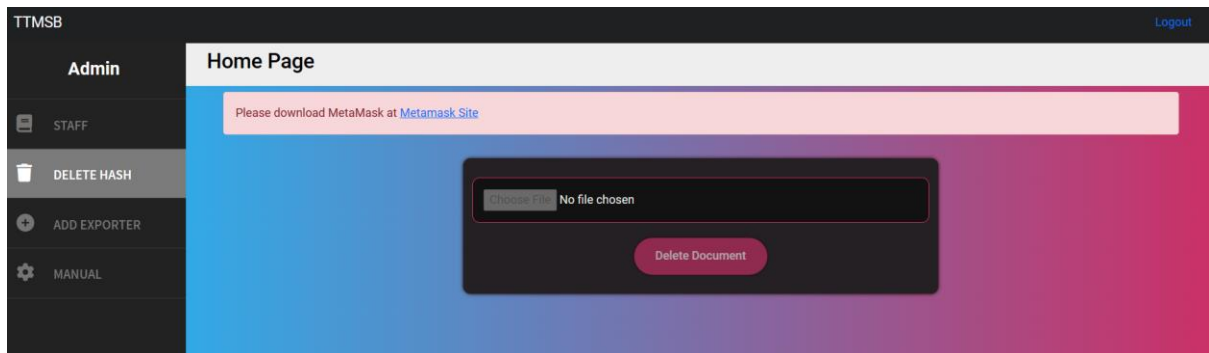
Create database ttmsb



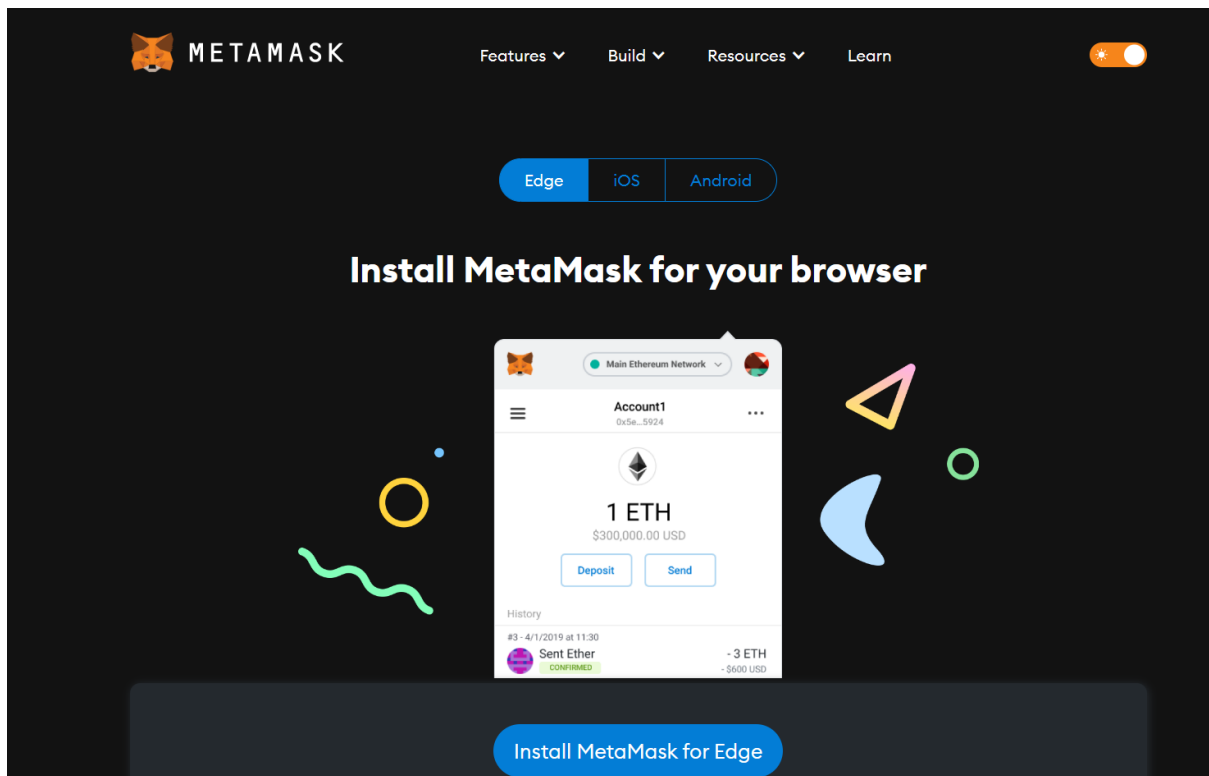
Import database ttmsb

METAMASK

Setup METAMASK



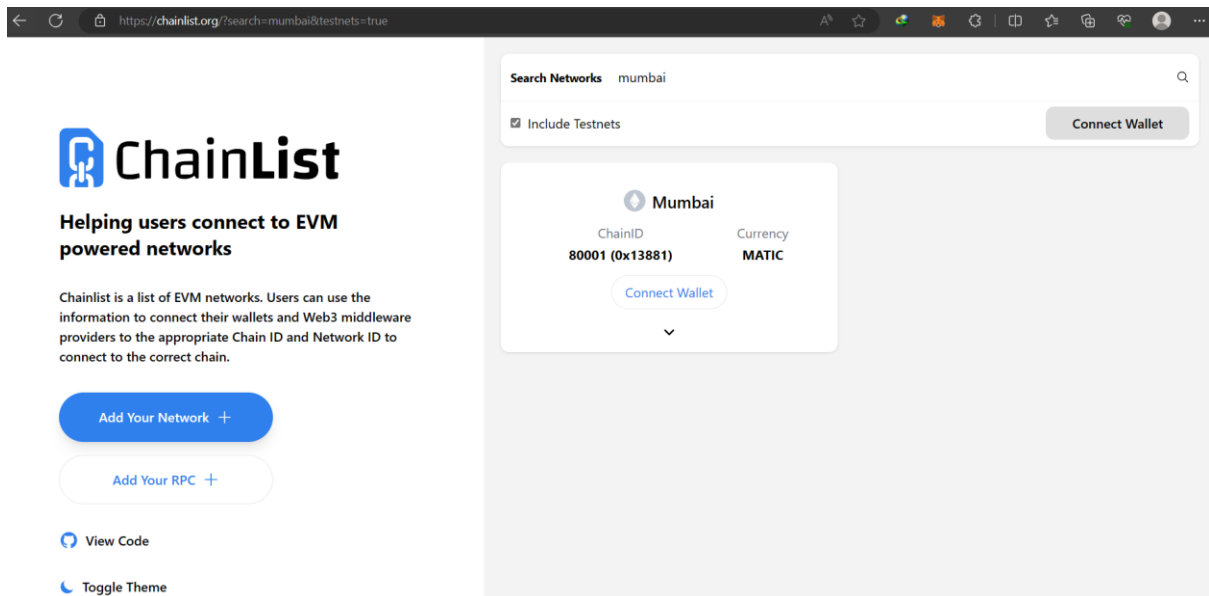
User require to install metamask to use the system



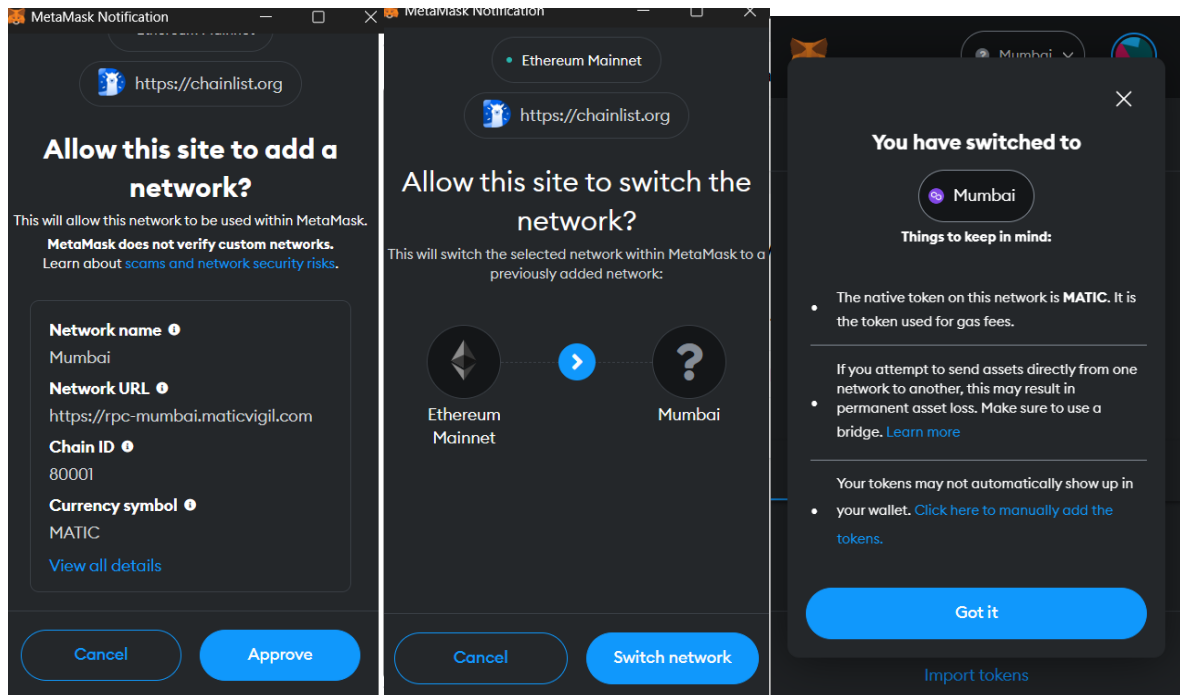
Install extension in your browser

Connect METAMASK to MUMBAI TESTNET

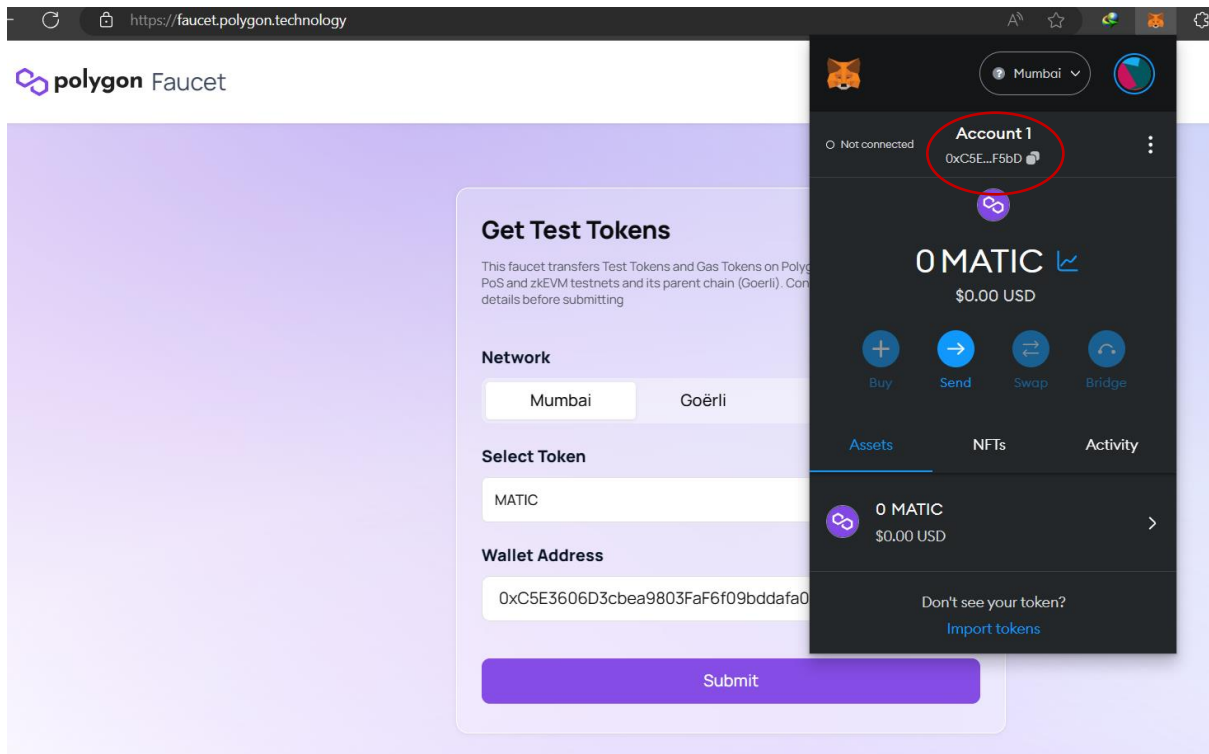
enable the Mumbai testnet for METAMASK (INSTALL METAMASK FIRST)



Go to chainlist.org and search MUMBAI and connect Wallet



Approve and switch Network to Polygon Mumbai Testnet

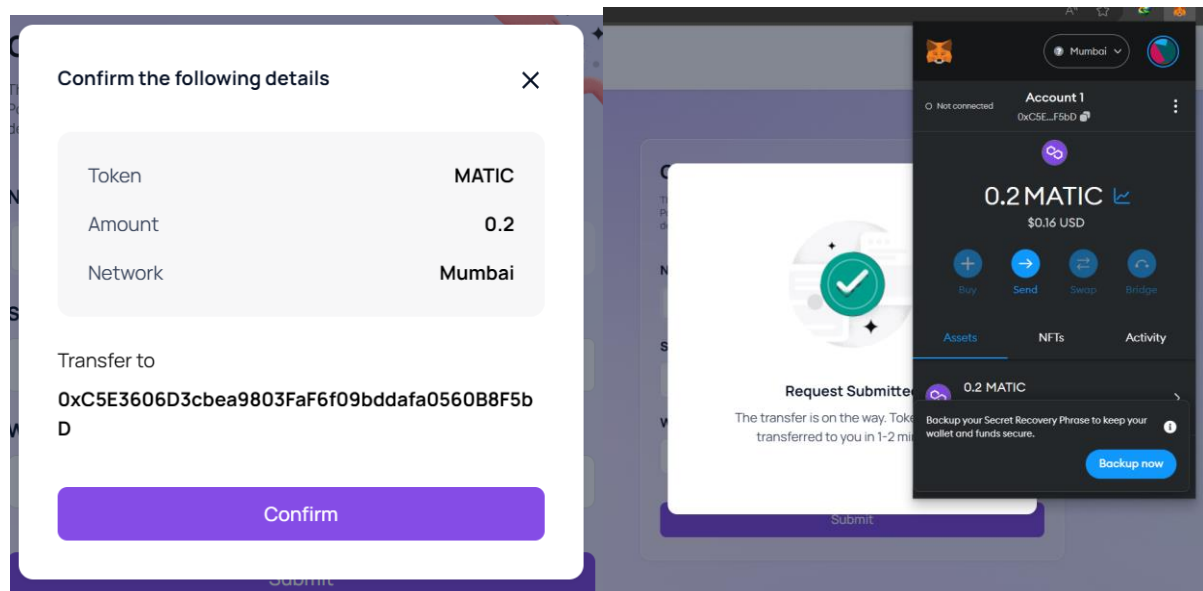


Go to faucet.polygon.technology

Get test token select Mumbai

Copy the Wallet ID (Circle in the figure)

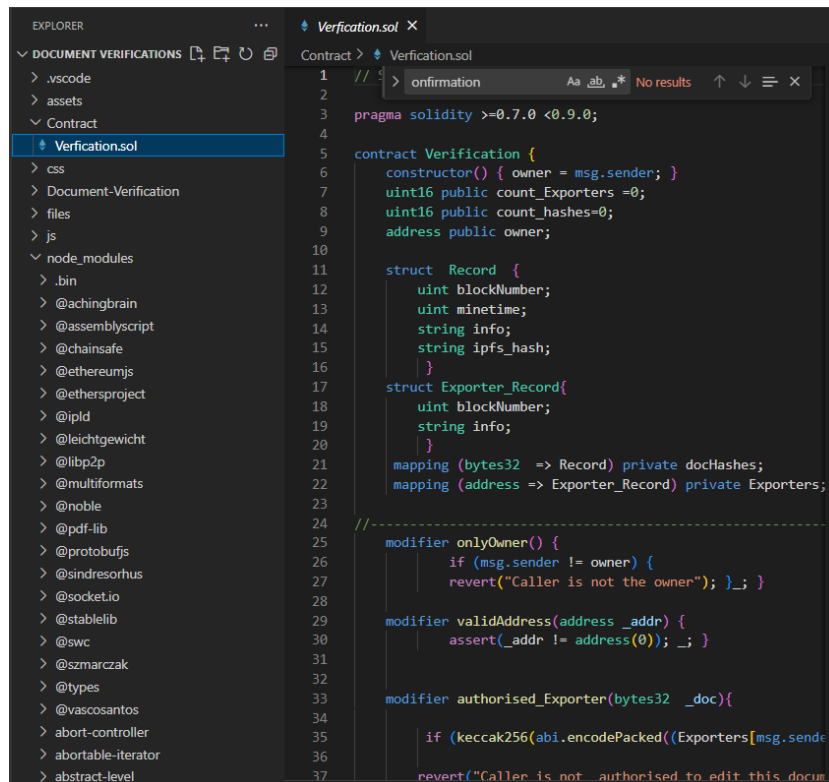
Paste in the form and submit



Confirm and wait for 5 minute to get the testnet token

SMART CONTRACT OWNERSHIP

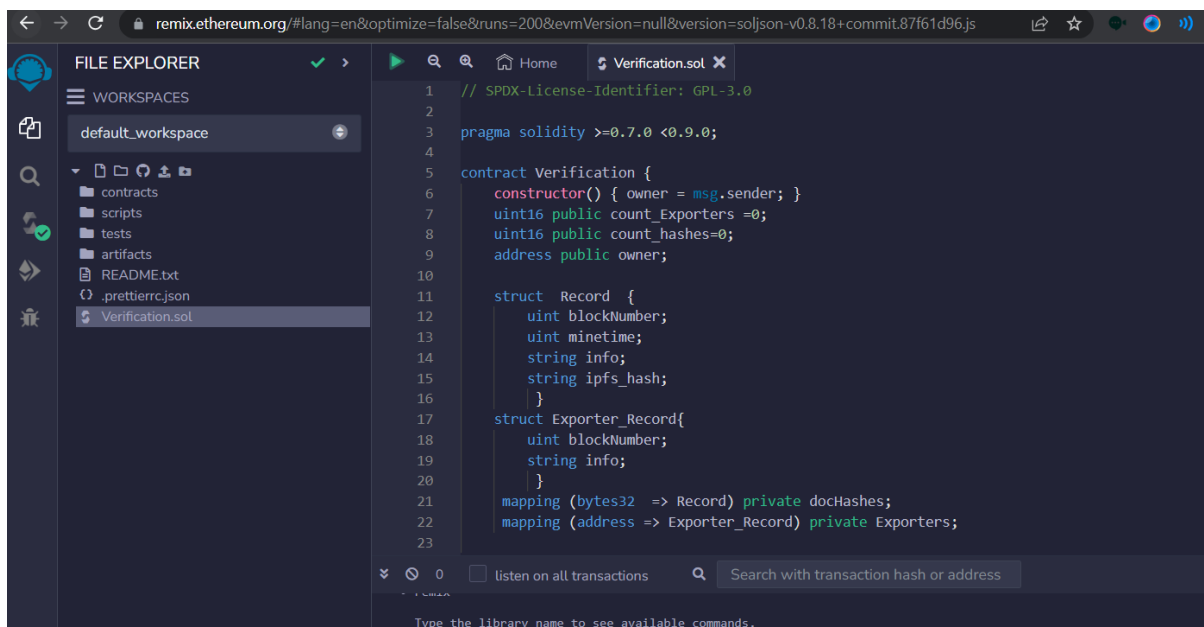
To enable ownership for Blockchain Smart Contract



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like .vscode, assets, Contract, and node_modules. The file Verification.sol is selected. The code editor shows the following Solidity code:

```
1 // SPDX-License-Identifier: GPL-3.0
2
3 pragma solidity >=0.7.0 <0.9.0;
4
5 contract Verification {
6     constructor() { owner = msg.sender; }
7     uint16 public count_Exporters =0;
8     uint16 public count_hashes=0;
9     address public owner;
10
11     struct Record {
12         uint blockNumber;
13         uint minetime;
14         string info;
15         string ipfs_hash;
16     }
17     struct Exporter_Record{
18         uint blockNumber;
19         string info;
20     }
21     mapping (bytes32 => Record) private docHashes;
22     mapping (address => Exporter_Record) private Exporters;
23
24     //-----
25     modifier onlyOwner() {
26         if (msg.sender != owner) {
27             revert("Caller is not the owner"); } _; }
28
29     modifier validAddress(address _addr) {
30         assert(_addr != address(0)); _; }
31
32     modifier authorised_Exporter(bytes32 _doc){
33
34         if (keccak256(abi.encodePacked((Exporters[msg.sender]
35
36         revert("Caller is not authorised to edit this document"); } _; }
```

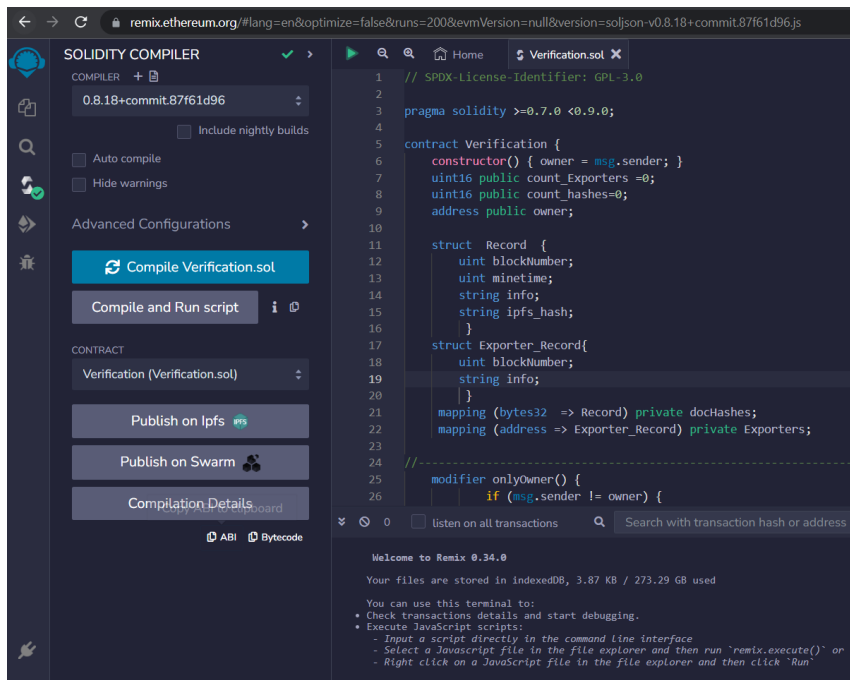
Find Verification.sol in Contract folder and copy the code



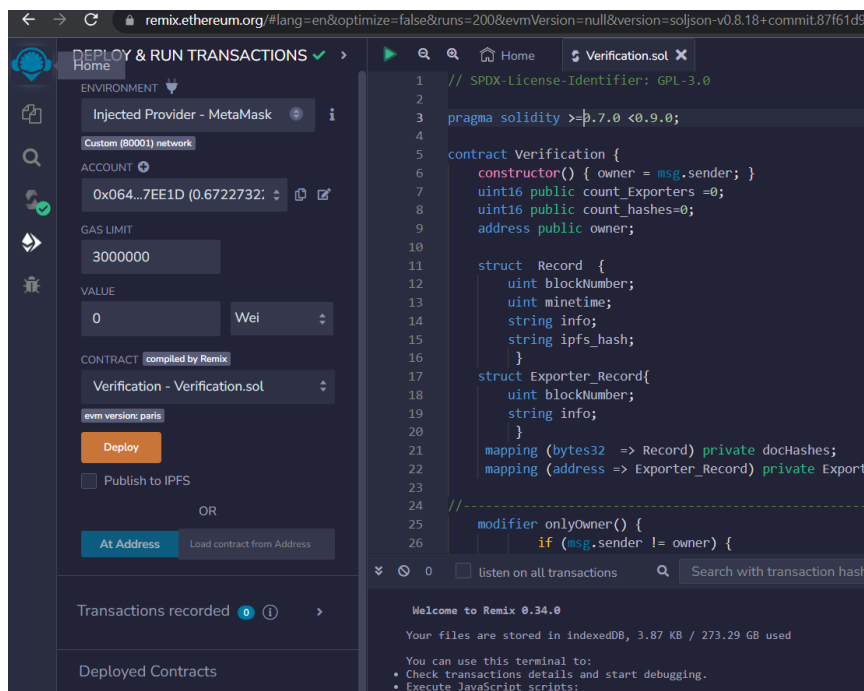
The screenshot shows a web-based IDE interface with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like contracts, scripts, tests, artifacts, README.txt, .prettierrc.json, and Verification.sol. The file Verification.sol is selected. The code editor shows the following Solidity code:

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Create new file and paste the smart contract code



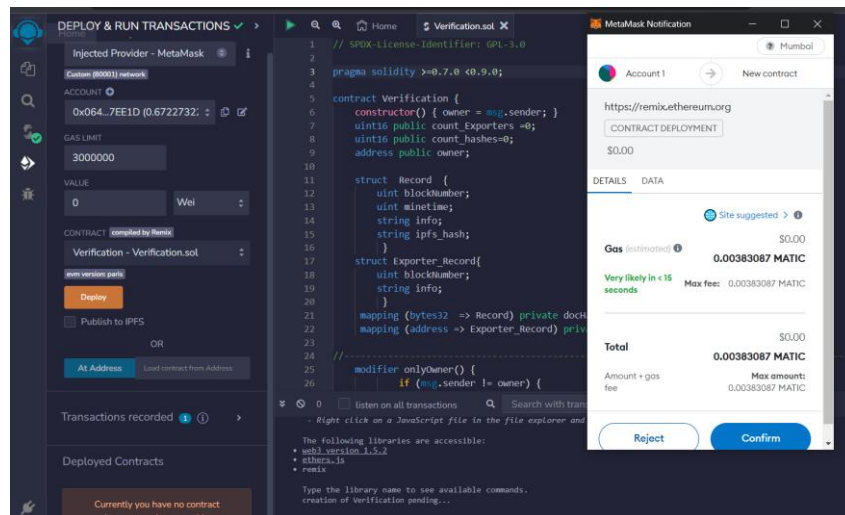
Compile the smart contract code



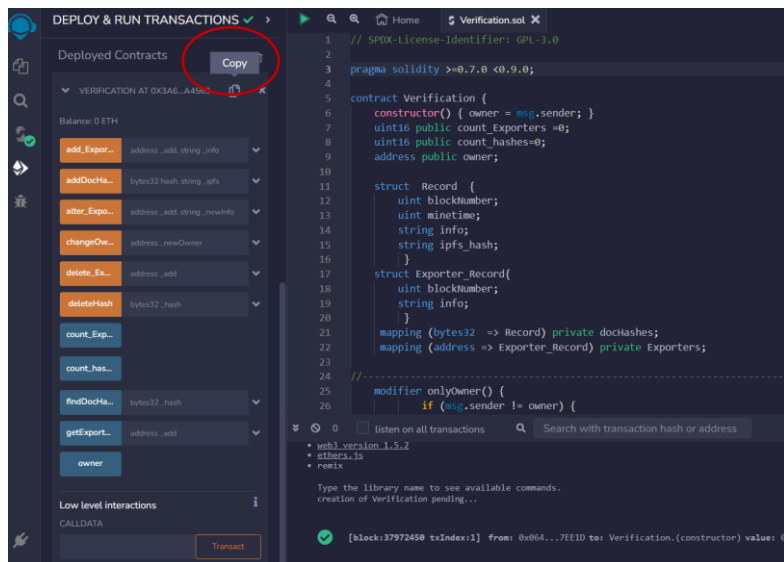
Go to Deploy and Run Transaction

Select in Environment = Injected Provider – Metamask

Click Deploy



Confirm the transaction



Click Copy the smart contract address

```
JS App.js X
public > js > JS App.js > address
1
2 window.CONTRACT = {
3   address: '0x5999F12C126d7f9c2767B50E05c68a49098F91f7',
4   network: 'https://matic-mumbai.chainstacklabs.com',
5   explore: 'https://mumbai.polygonscan.com/',
6   abi: [
7     {
8       anonymous: false,
9       inputs: [
10        {
11          indexed: true,
12          internalType: 'address',
13          name: '_exporter',
14          type: 'address',
15        },
16        {
17          indexed: false,
18          internalType: 'string',
19          name: '_ipfsHash',
```

```
JS App.js verify.ejs M X
views > pages > verify.ejs > html > body > script > address
201
202 window.CONTRACT = {
203   address: '0x5999F12C126d7f9c2767B50E05c68a49098F91f7',
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