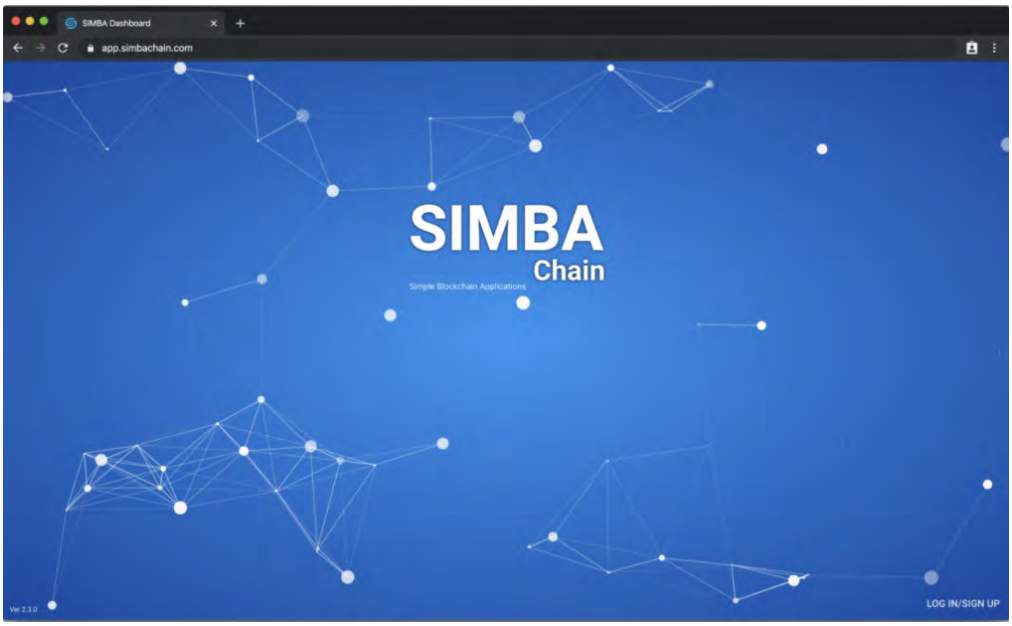
BUILD YOUR
FIRST APP

ethereum

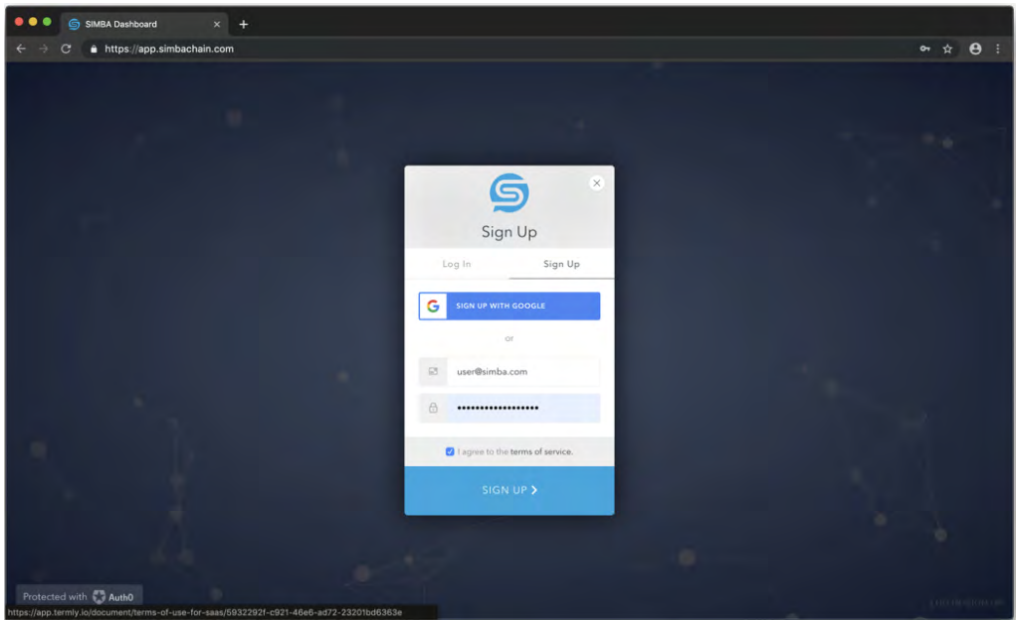
SIMBA

Build Your First App (ETH)

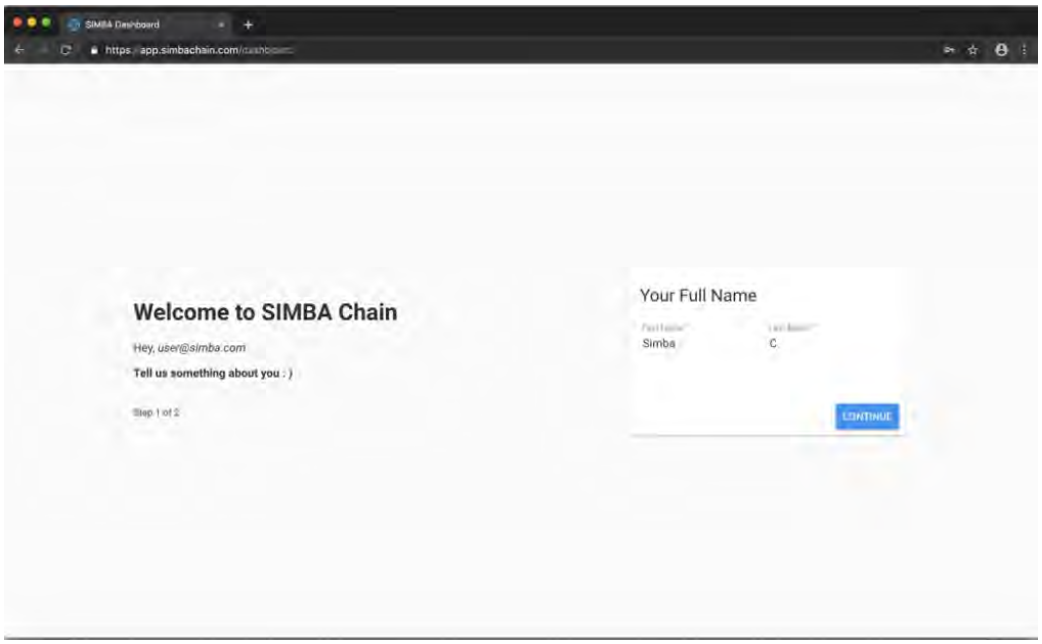
- **1. Get Started**
  - 1.1 Go to https://app.simbachain.com/.



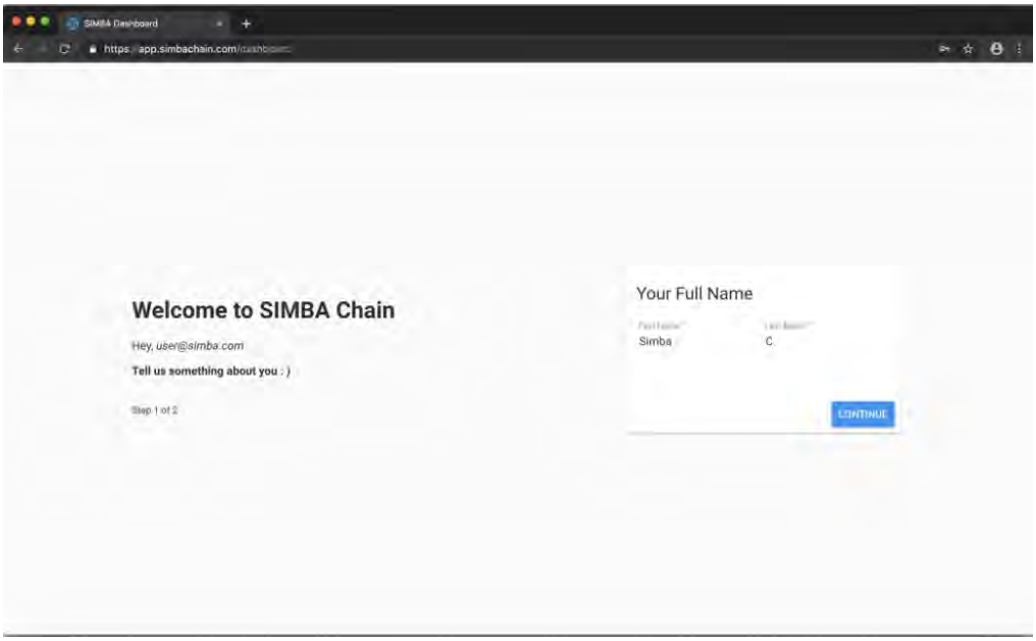
  - 1.2 Sign up/Log in with Google account or combination of email and password



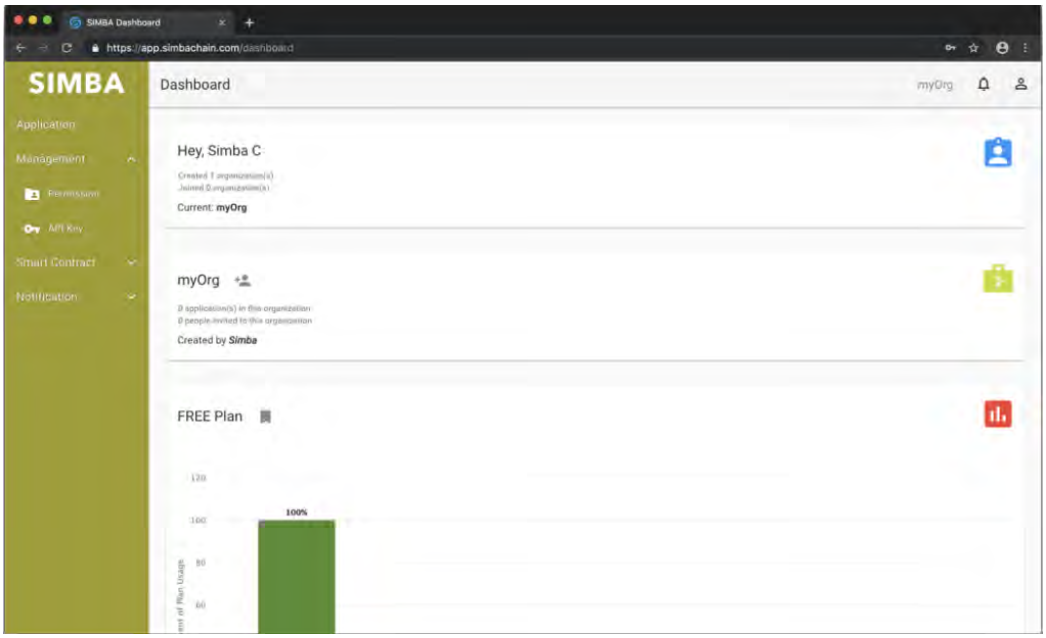
- 1.3 Create your account



- 1.4 Create your first organization

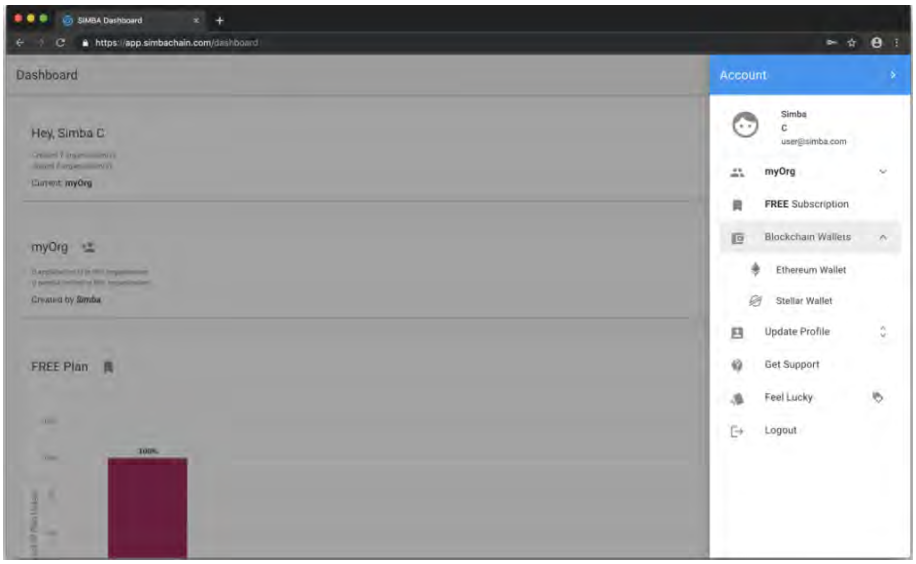


- 1.5 The SIMBA Chain Platform home page will appear

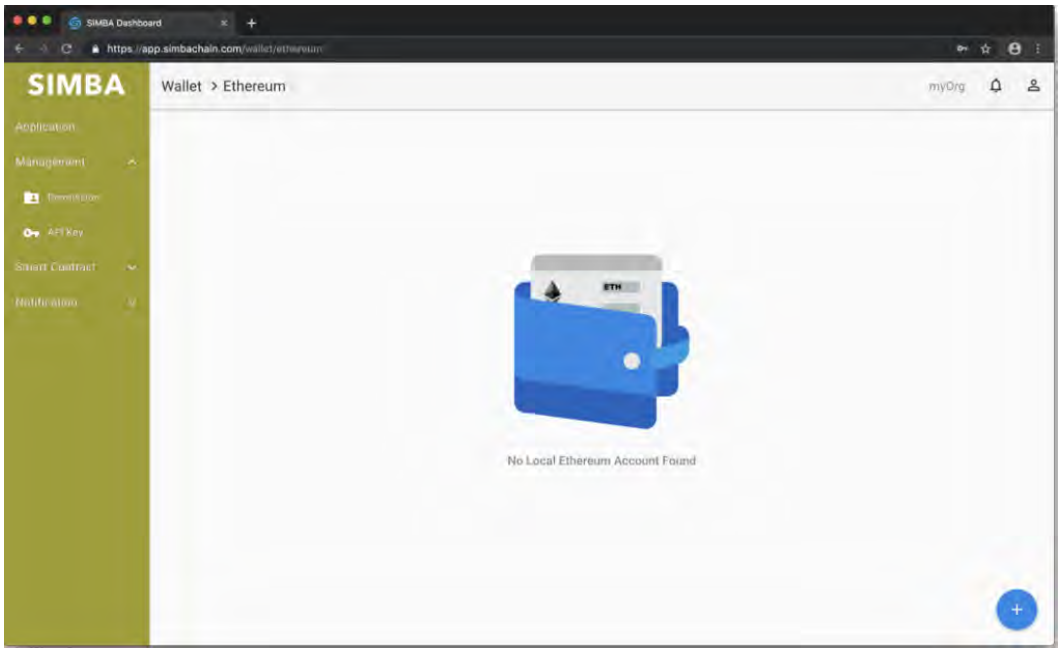


- **2. Set Wallet**
    - 2.1 Click top-right Account button to open the right navigation bar

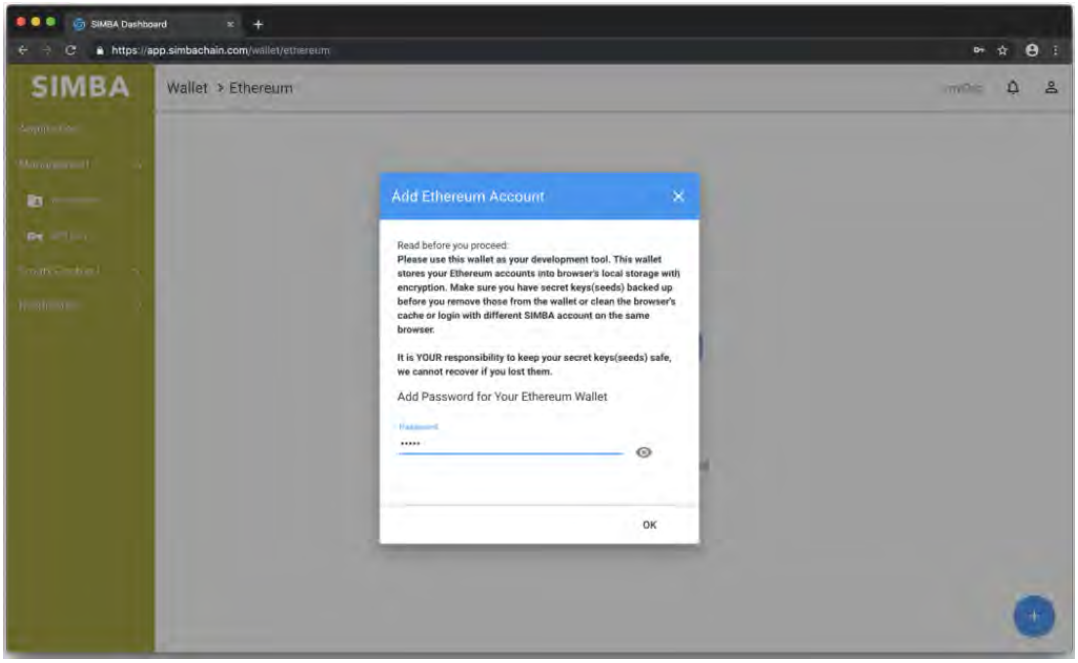
    - 2.2 Click to expand.
        - Then click: Blockchain Wallets
        - Then select: Ethereum Wallet



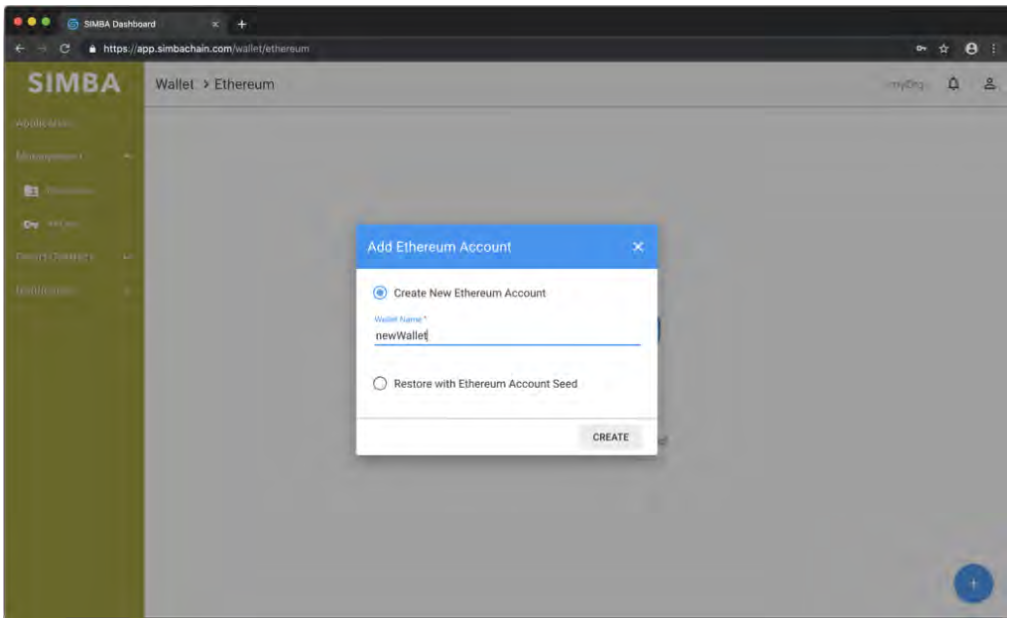
- 2.3 The page will be redirected to the Ethereum wallet page
    - Click the right-bottom (+) button to continue



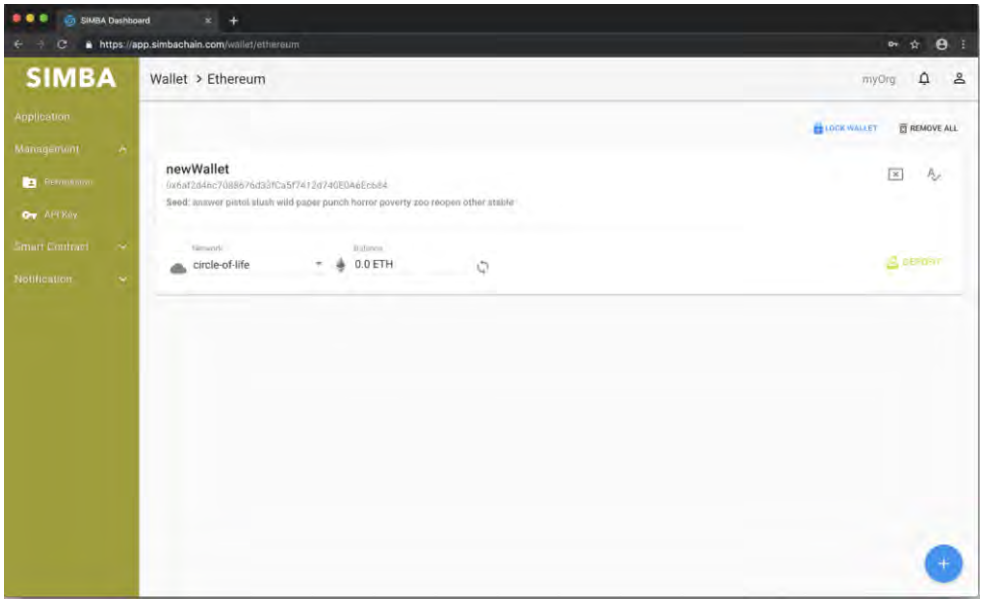
- 2.4 Add a password for your Ethereum Wallet



- 2.5 Create a new Ethereum Account

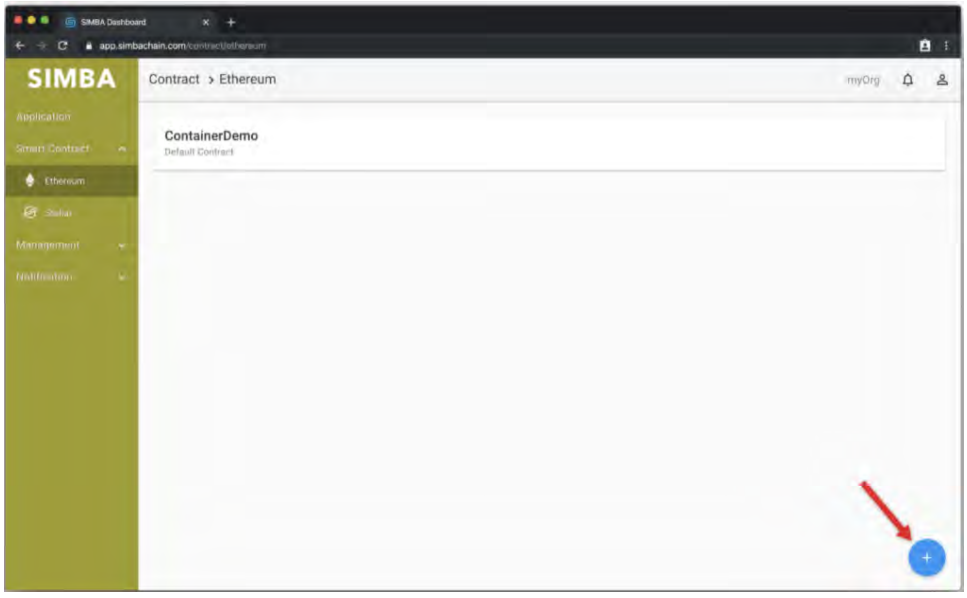


- 2.6 Check the balance of the created account on a network
  (For testing purposes you may use the “circle of life” network.)

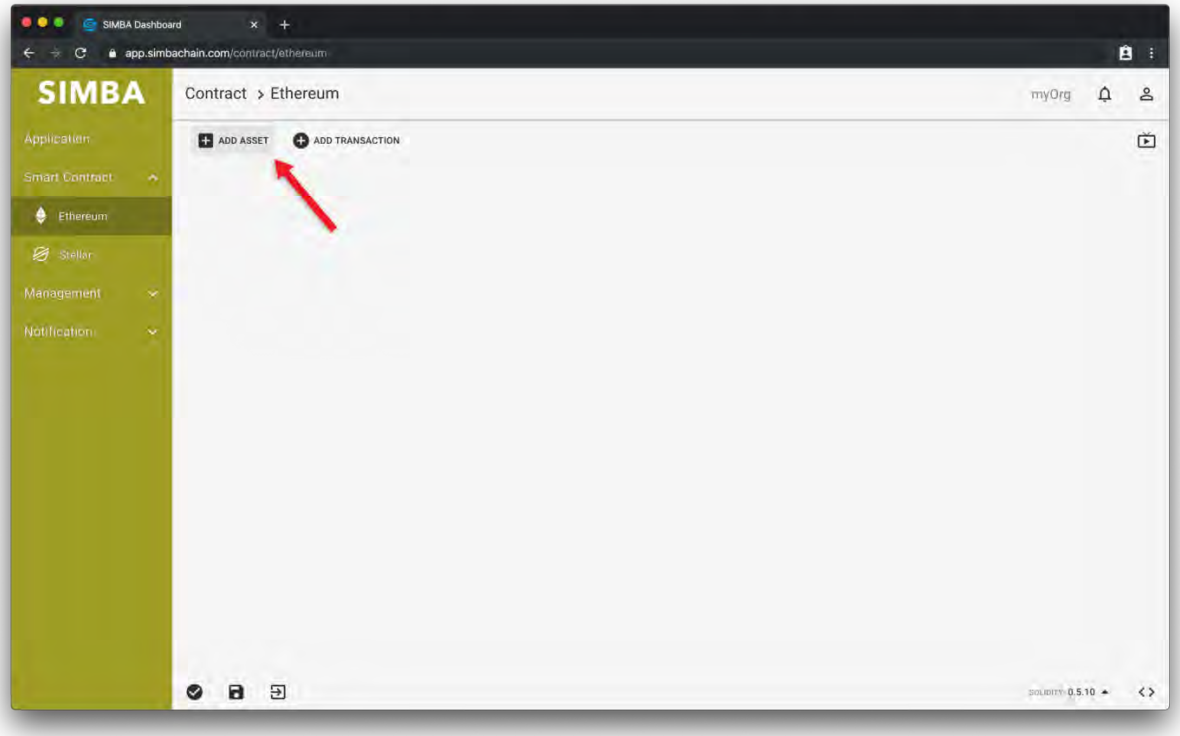


- *2.7* Click deposit to deposit 10 Ether”
  (Hit refresh button next to the Balance, it may take several seconds to appear. Refresh as needed)

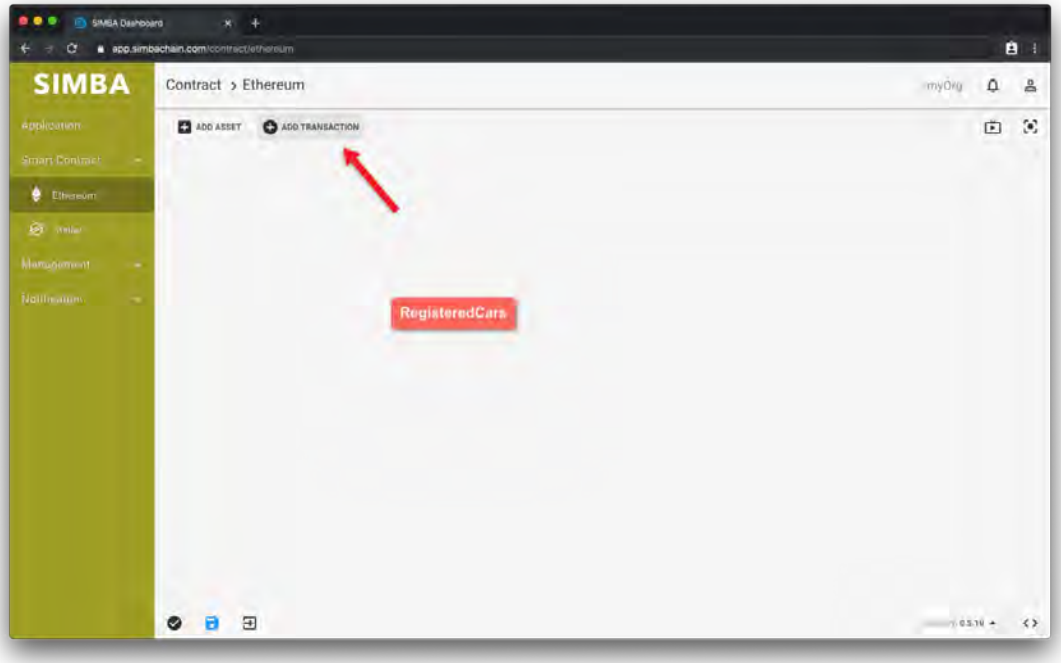
- **3. Create A Smart Contract**
  - 3.1 Click Solidity under Smart Contract on the left navigation menu and click the right-bottom (+) button to add a new contract



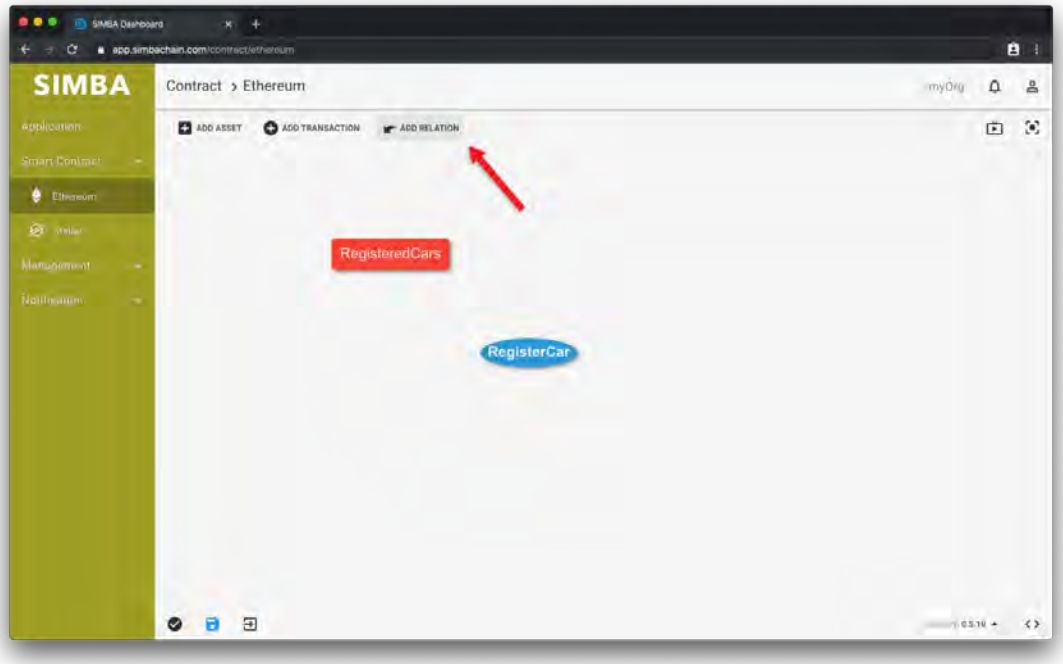
- 3.2 Click **ADD ASSET** button and type in `RegisteredCars` and hit Enter to add new asset to the canvas



- 3.3 Click **ADD TRANSACTION** and type `RegisterCar` and hit Enter to add a new transaction to the canvas

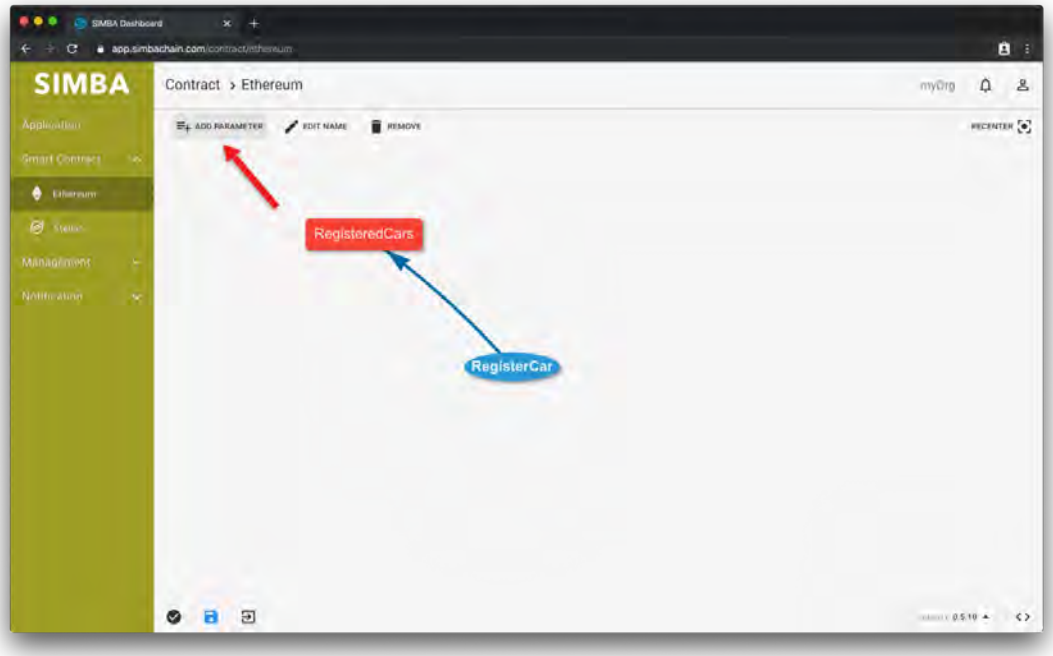


- 3.4 Click **ADD RELATION**

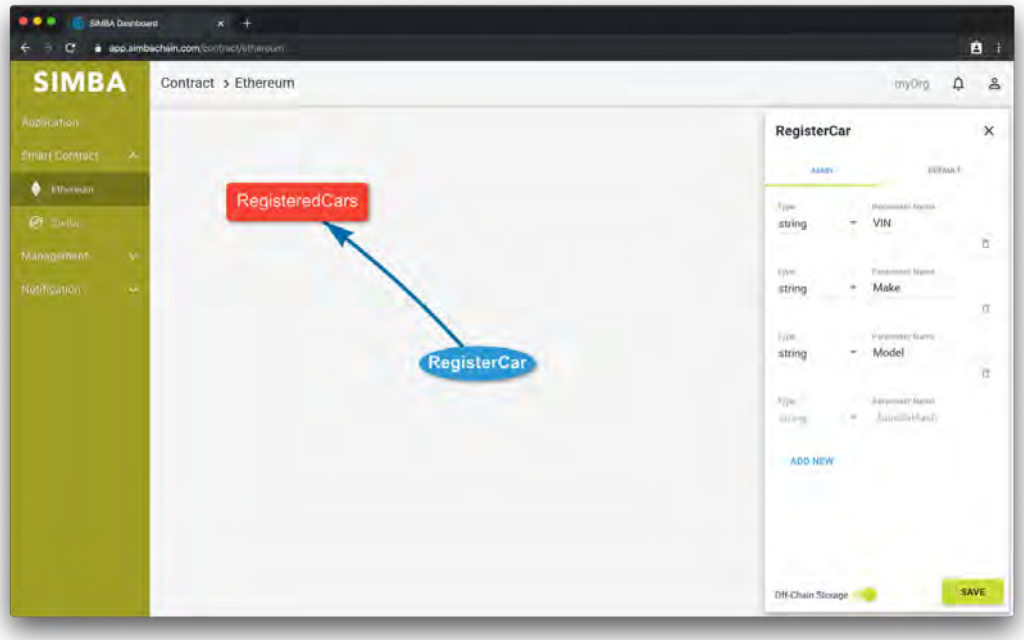


- 3.5 Click RegisterCar Transaction and drag arrow to RegisteredCars Asset

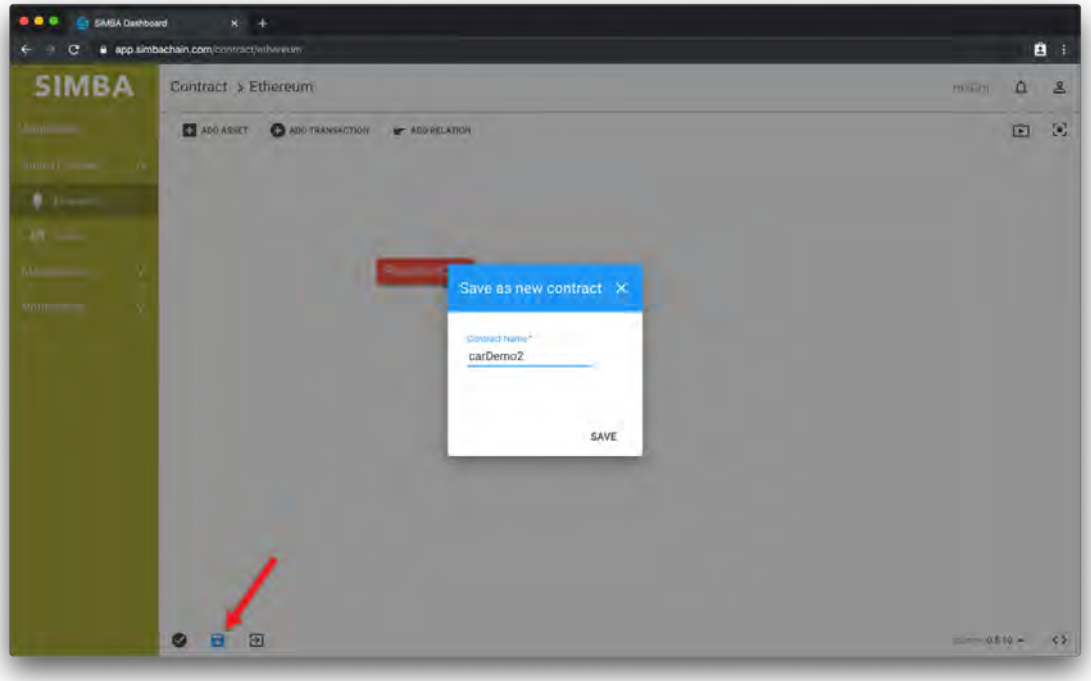
- 3.6 Double click the transaction RegisterCar to show the parameter panel



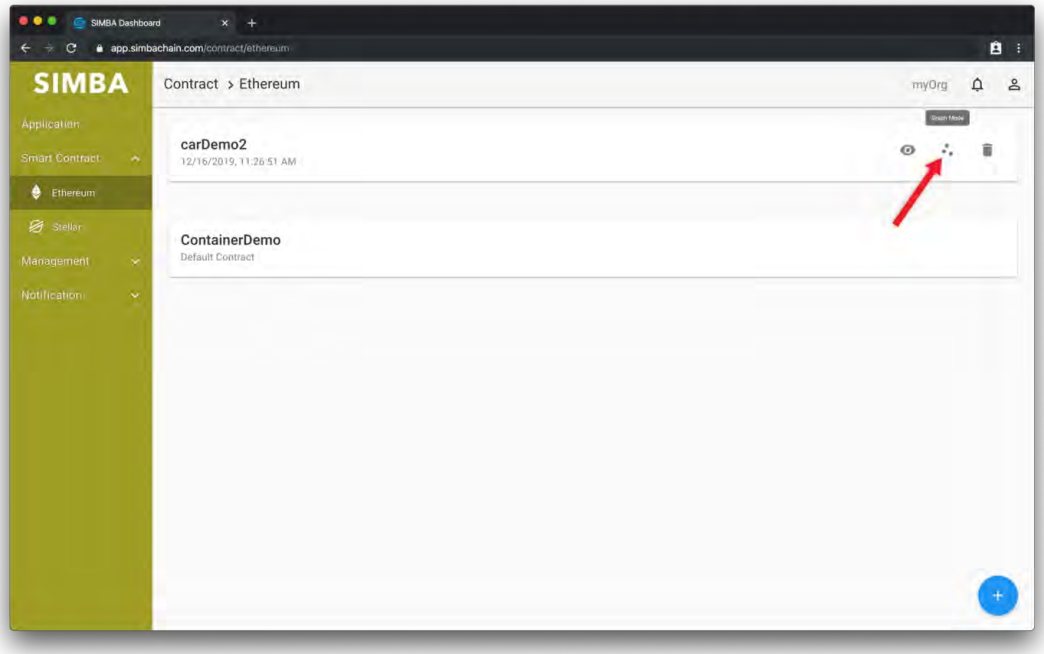
- 3.7 Add parameters that are needed when a car is being registered, such as `VIN`, `Make` and `Model`, and also have off-chain storage enabled where external files can be uploaded by switching on the Off-Chain Storage toggle



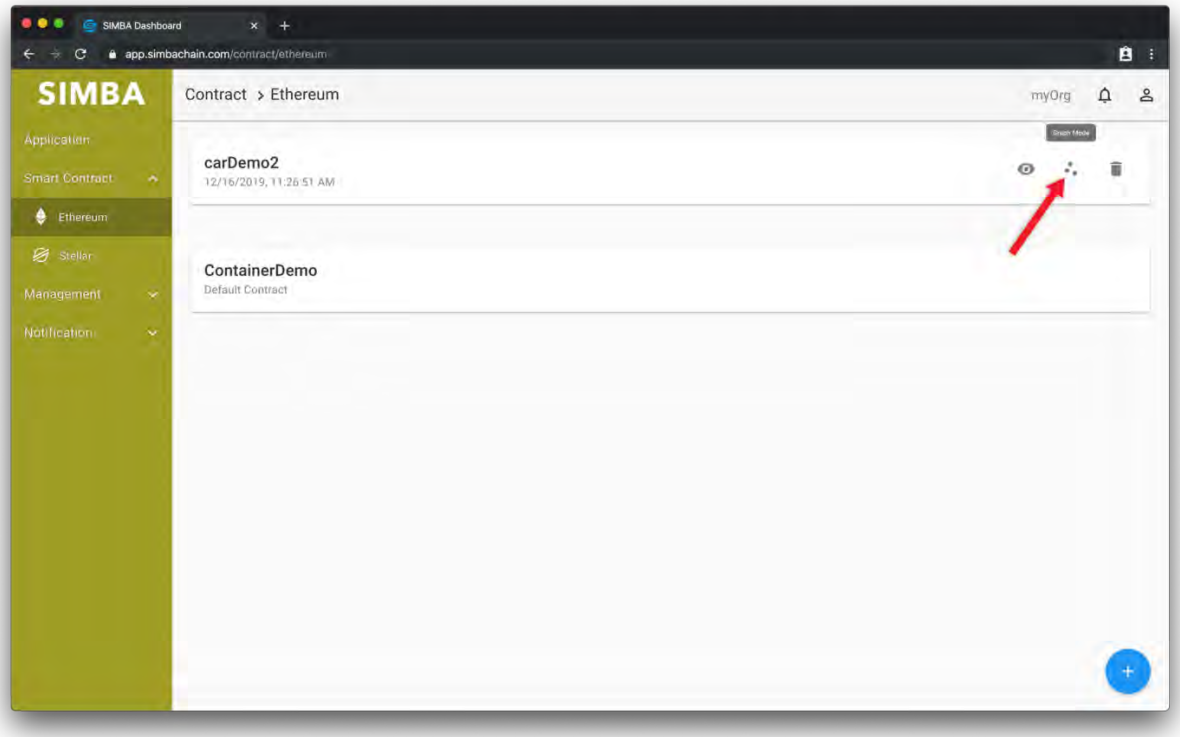
- 3.8 Save the contract as a new one called `CarDemo`



- 3.9 After saving, Select Quit in lower left corner to view list of smart contracts

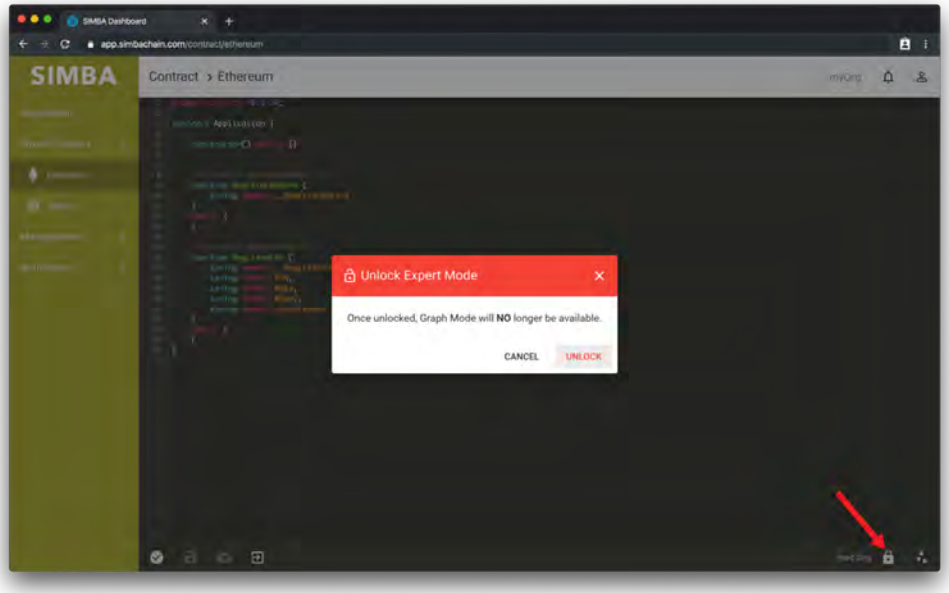


- 3.10 The saved contract can be found from the Ethereum smart contract list and can be opened as a graph again

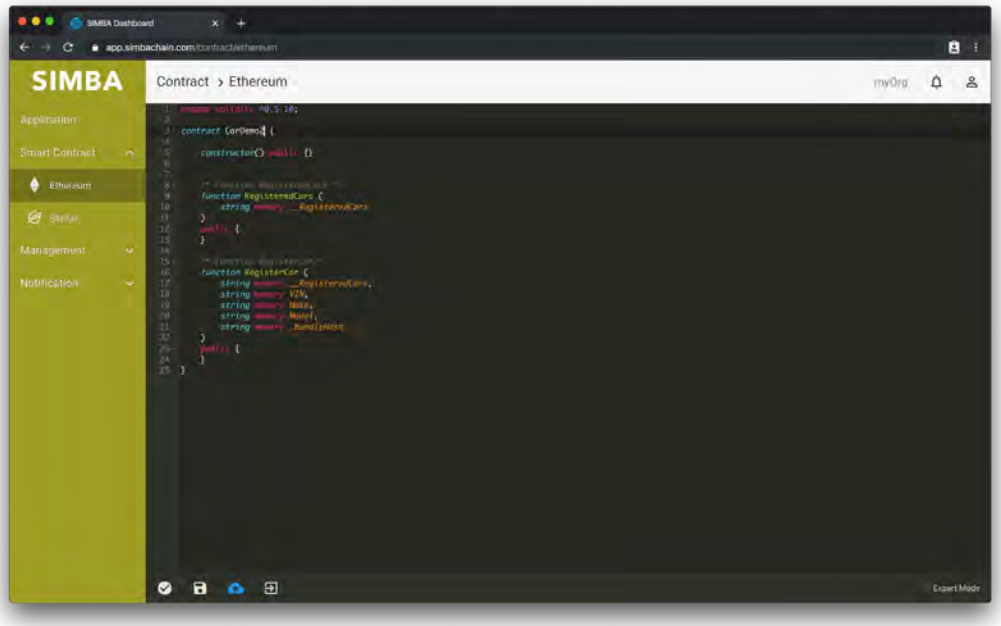


- 3.11 The smart contract code can be viewed by clicking the graph button which will switch the graph mode to code mode

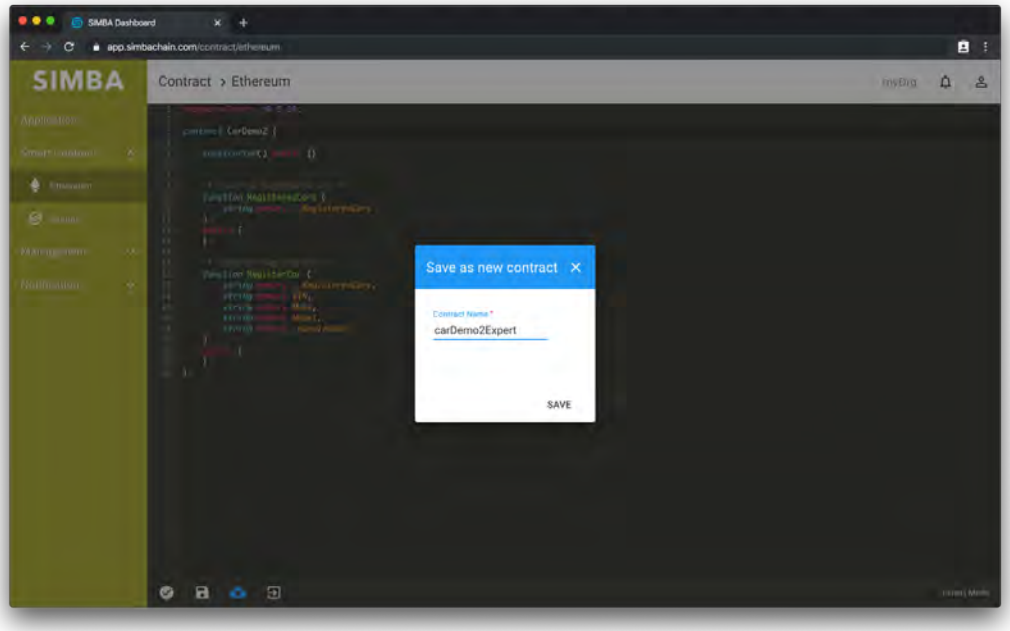
- 3.12 If you wish to edit code in the code editor, click the lock and confirm the unlock



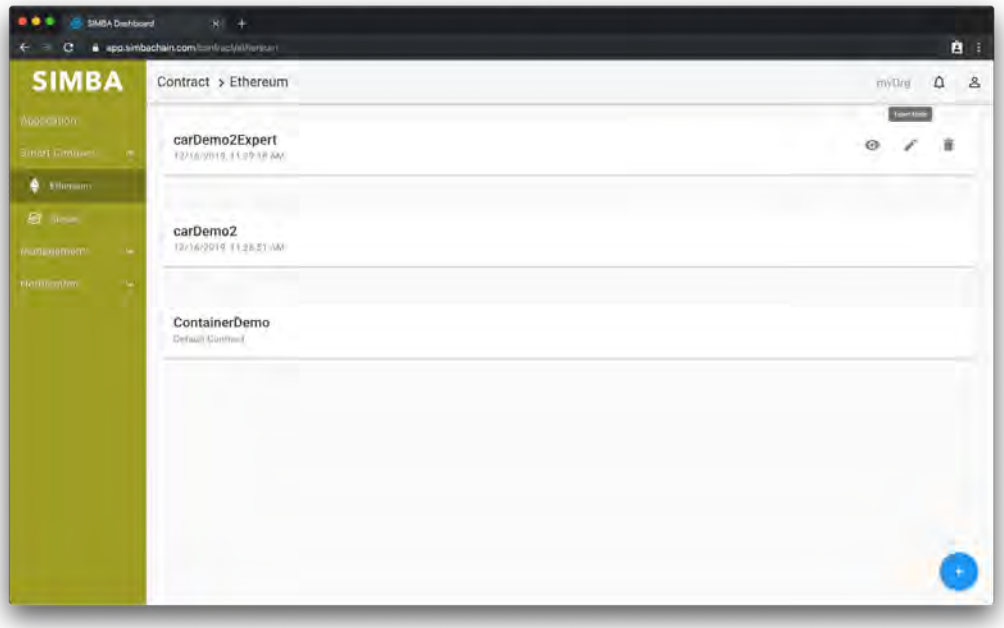
- 3.13 Once the expert mode is unlocked, you cannot switch back to graph mode but you can edit the code freely



- 3.14 Save the contract as a new one called `CarDemoExpert` with save button

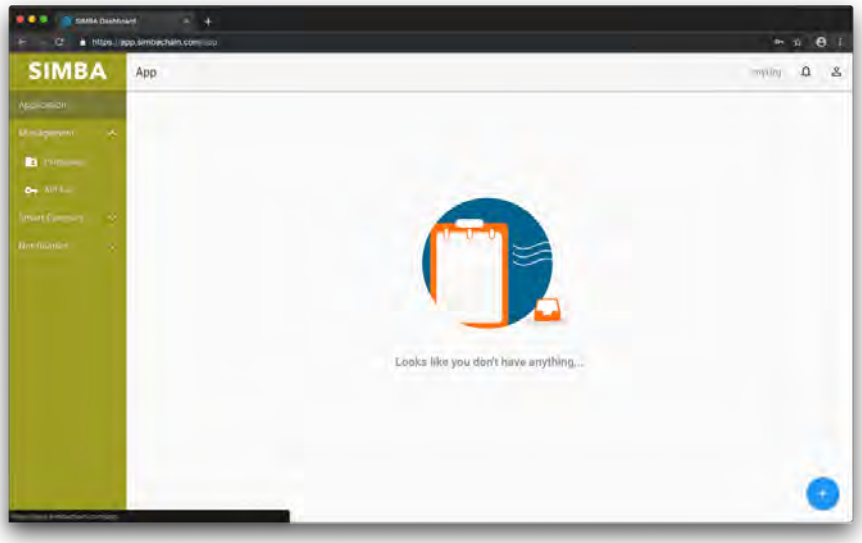


- 3.15 The saved contract can be found from the Ethereum smart contract list and can be opened as code again with edit button

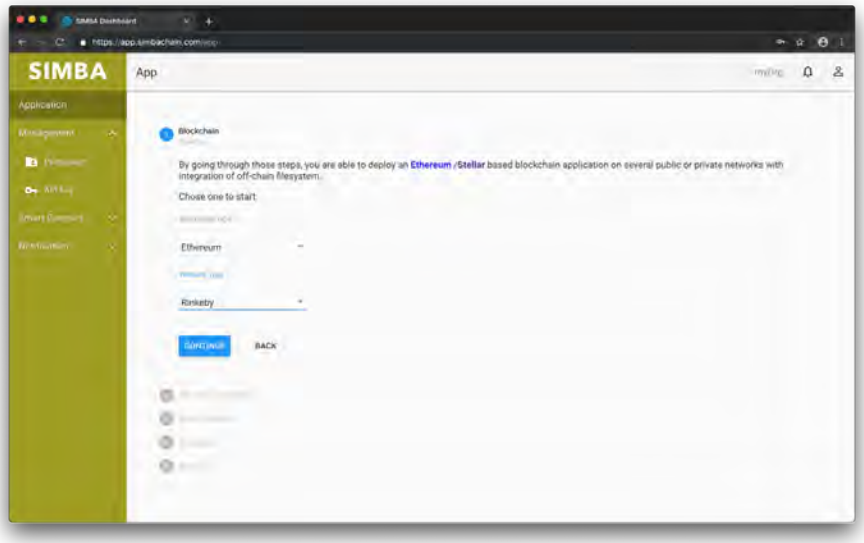


- 3.16 After saving, Select Quit in lower left corner to view list of smart contracts

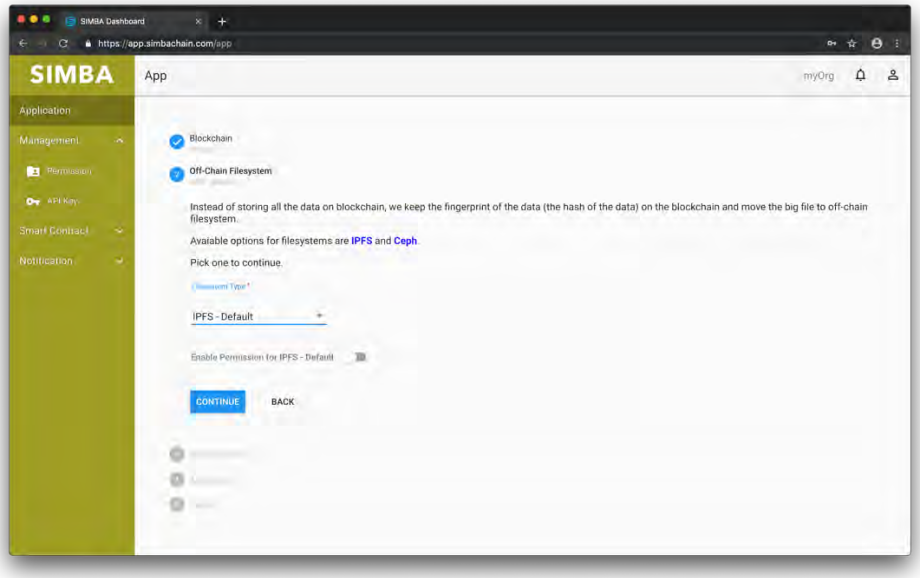
- **4. Configure Application**
  - 4.1 Click A**pplication** on the left navigation bar and click right-bottom button (+) to create new application



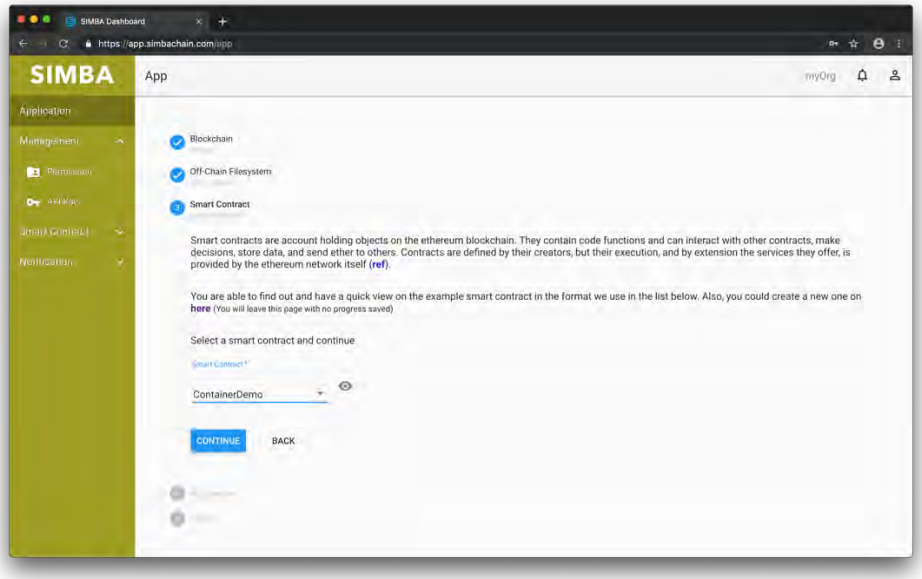
  - 4.2 Select Ethereum Network



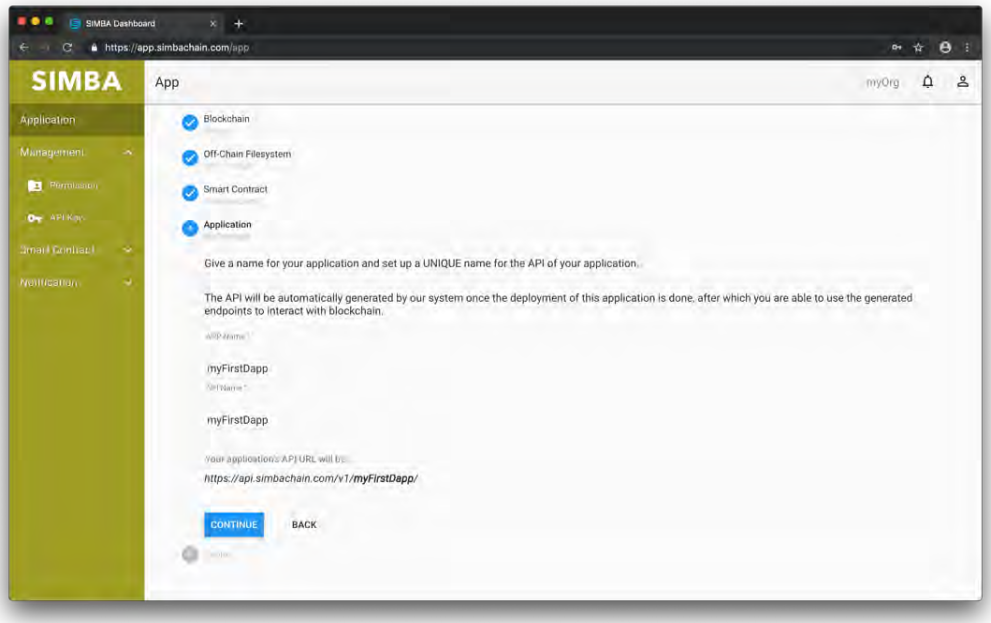
- 4.3 Select IPFS - Default



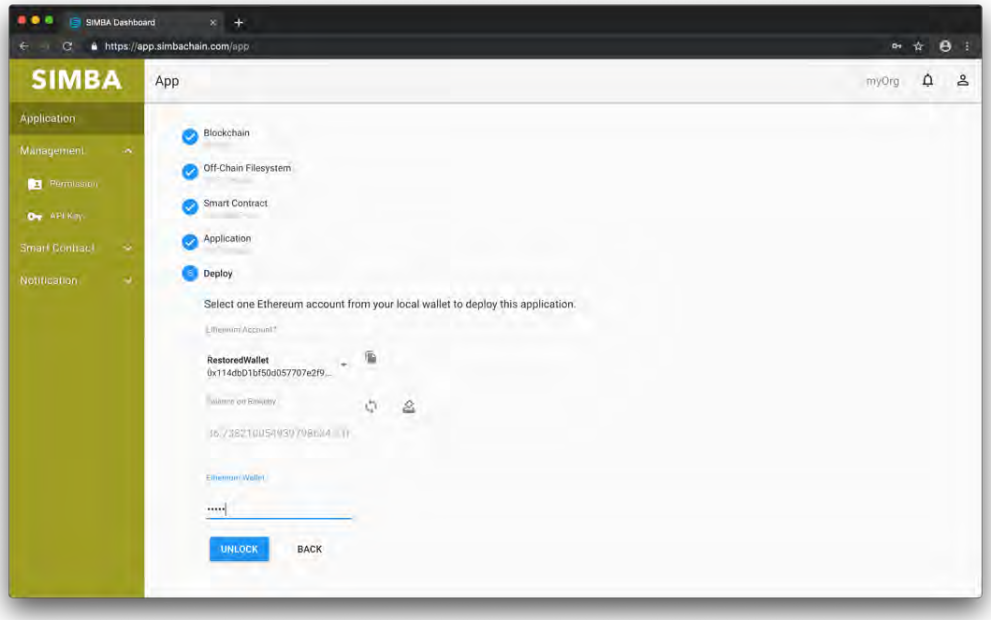
- 4.4 Select Smart Contract - CarDemo



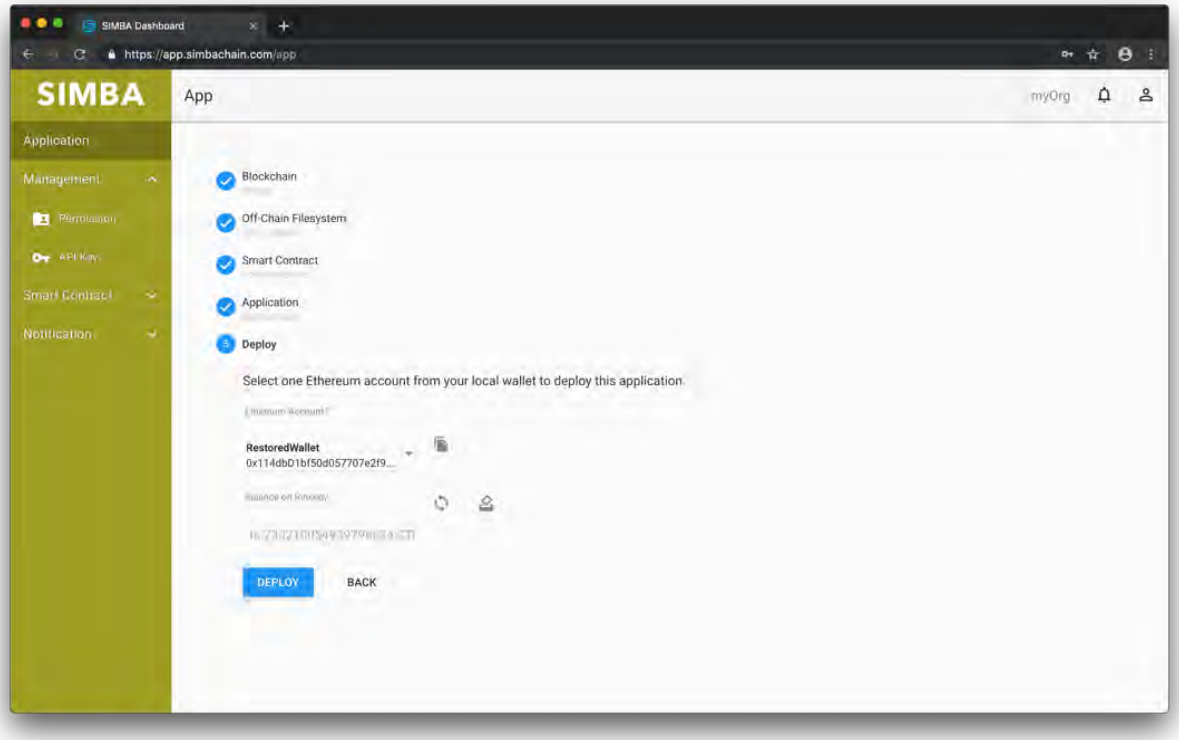
- 4.5 Give names for your application, and API which will be part of the API URL



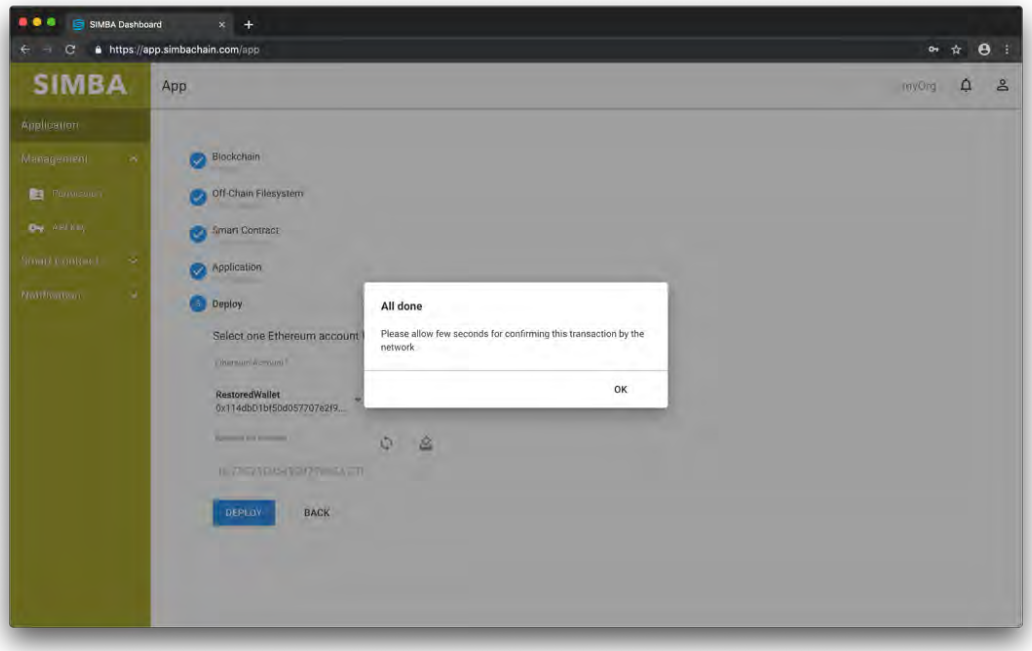
- 4.6 Unlock your wallet



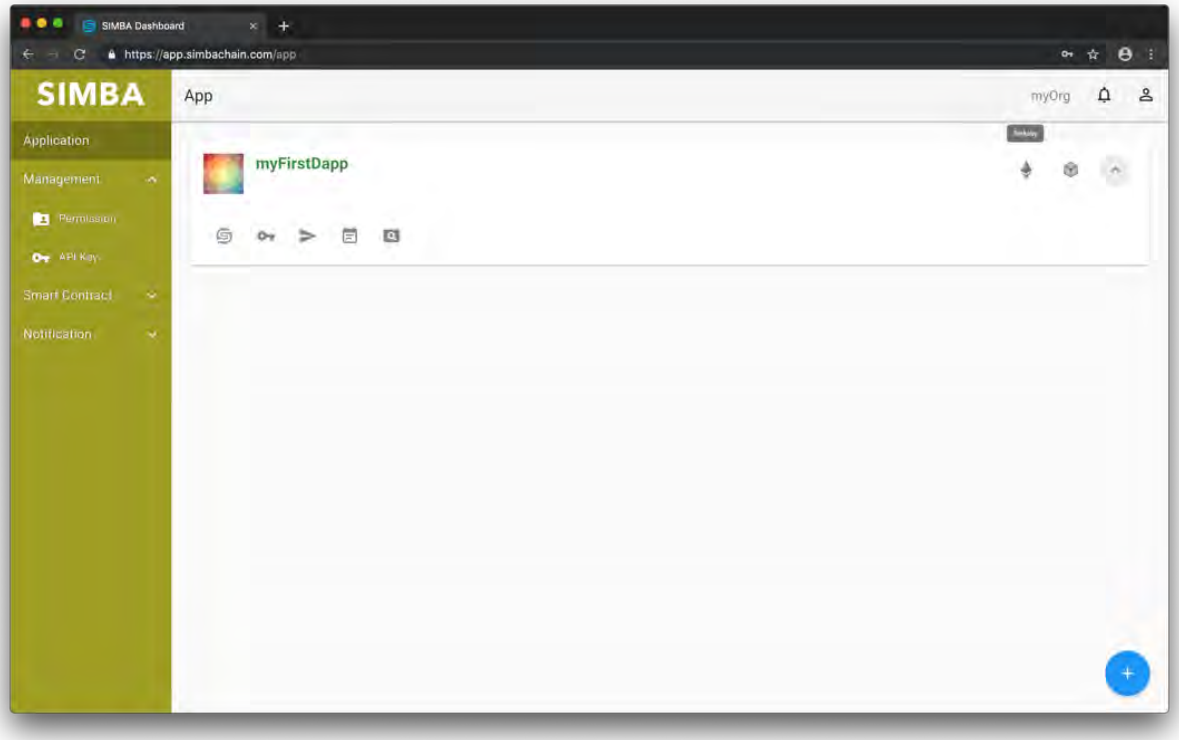
- 4.7 Deploy your application



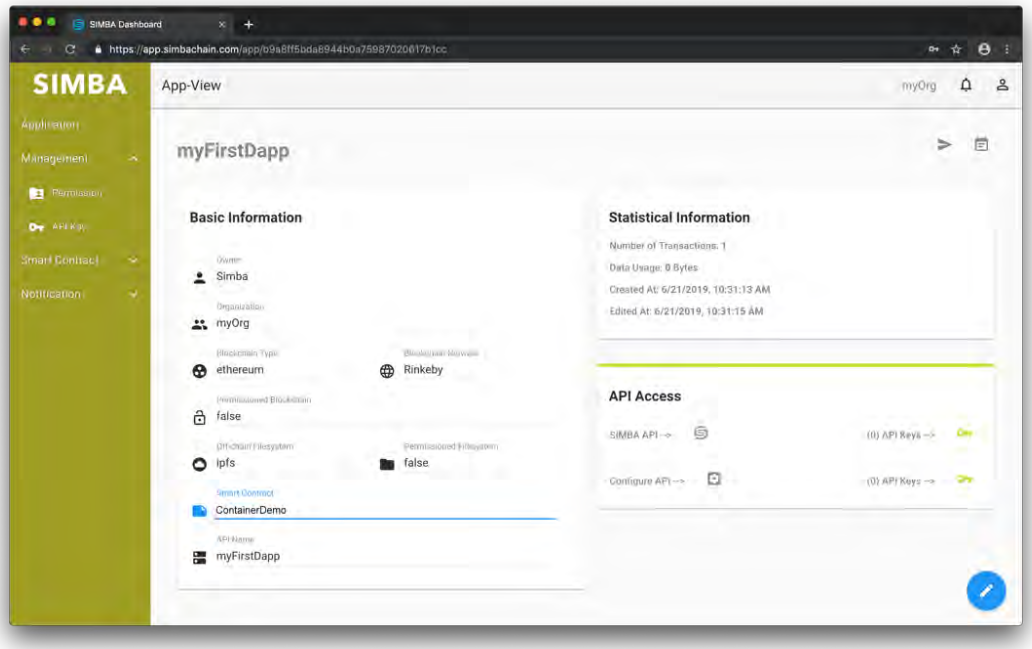
- 4.8 Wait for completion



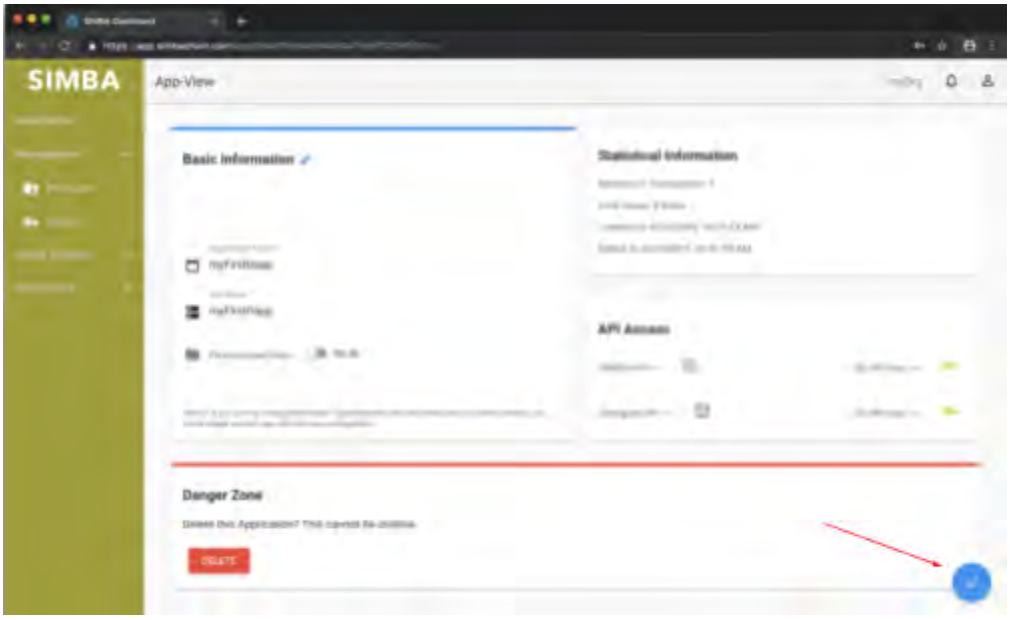
- 4.9 View Application List



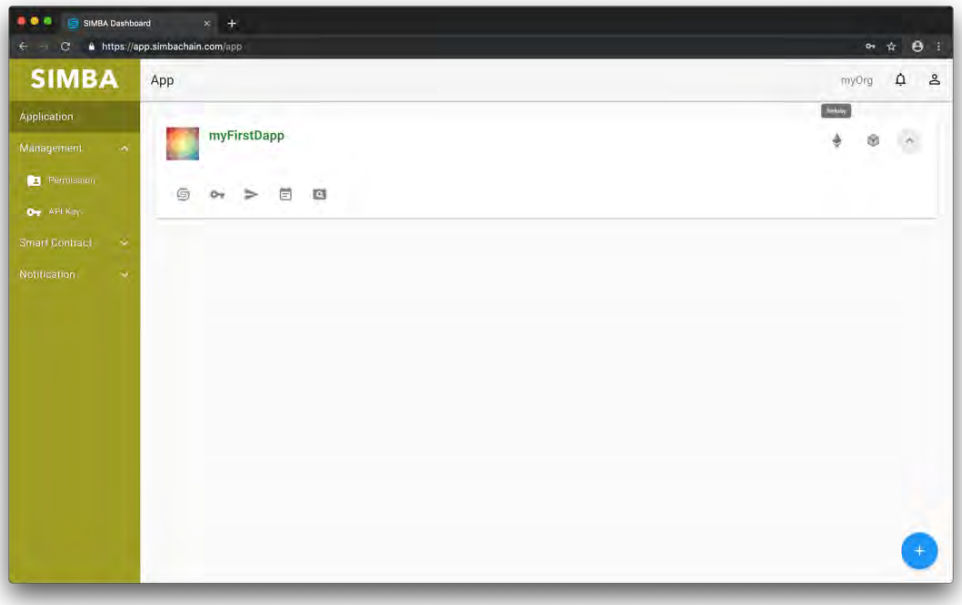
- **5. View Application**
  - 5.1 Click info button to check out the details of deployed application



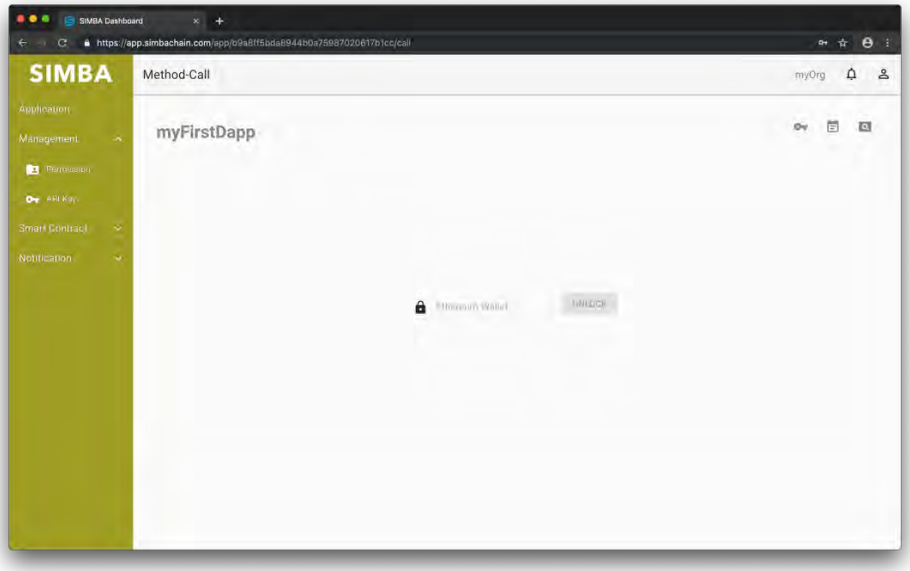
- 5.2 View Application details for Ethereum Application



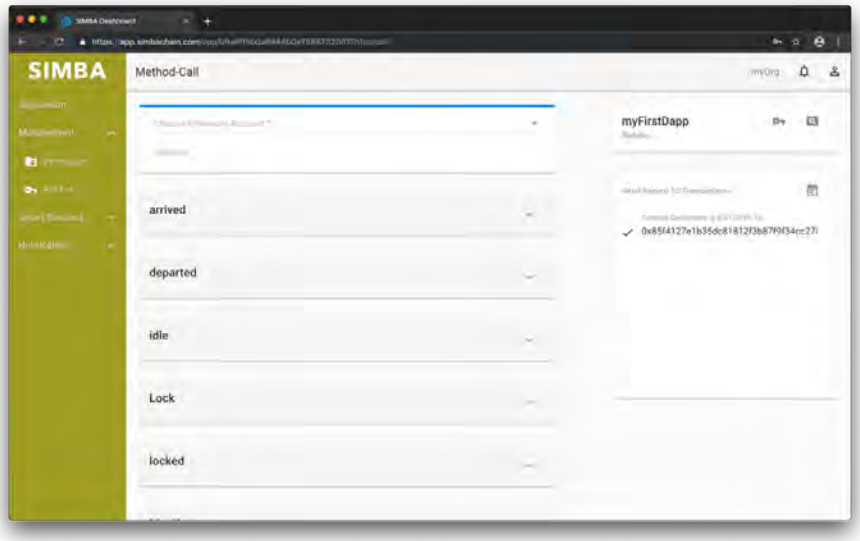
- 6. Make Transactions
  - 6.1 Click send button to make transaction



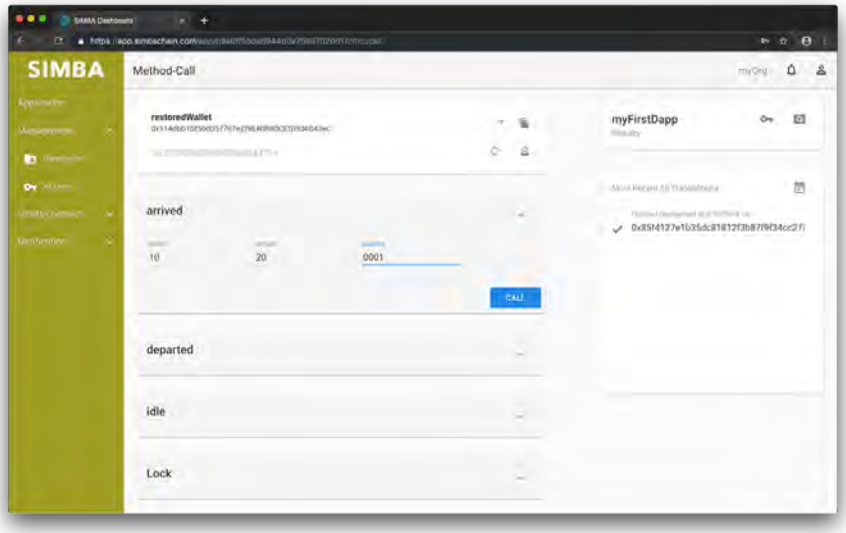
- 6.2 First unlock your wallet



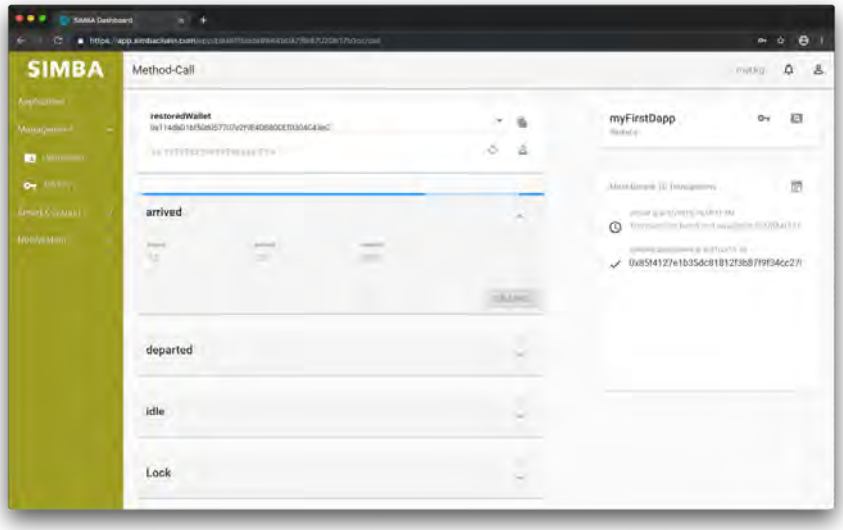
- 6.3 Select a wallet



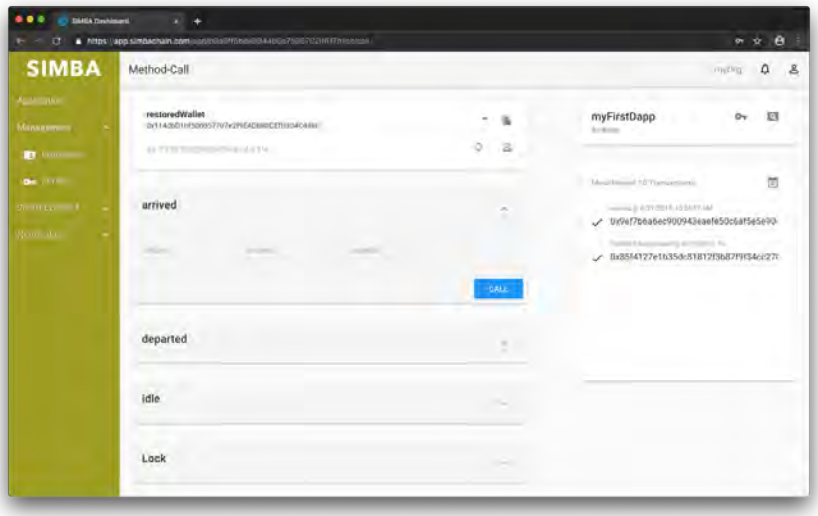
- 6.4 Fill out the parameters



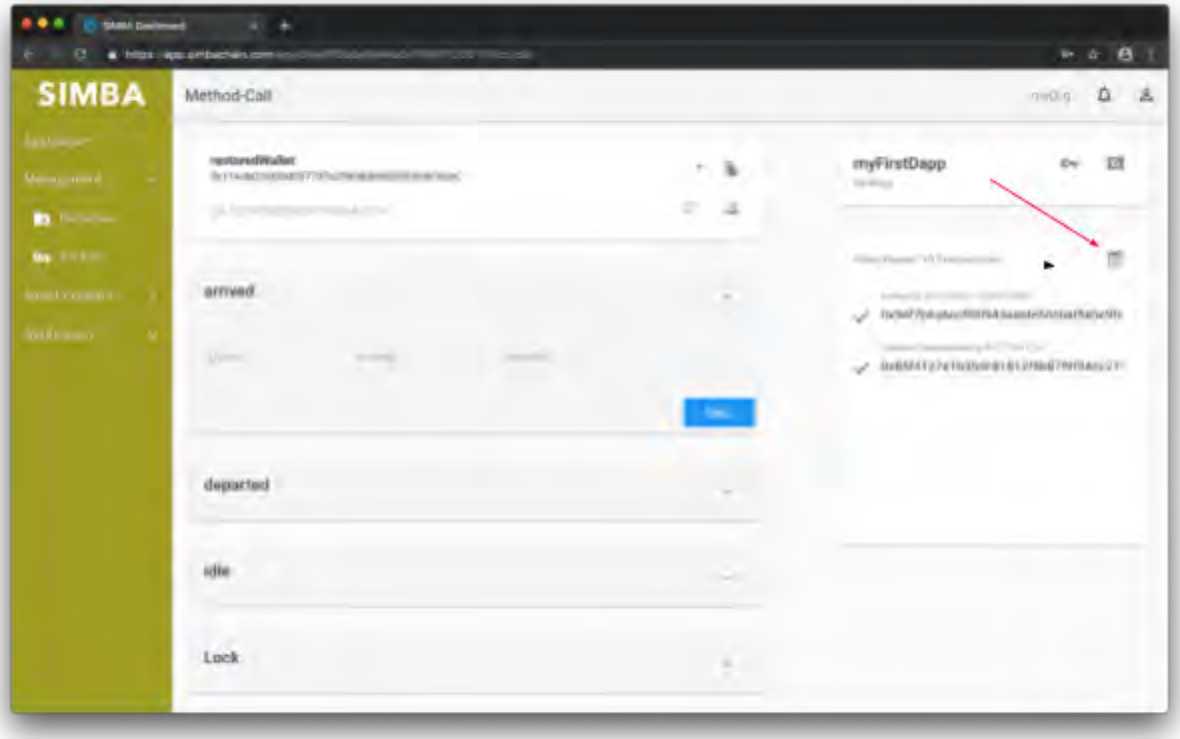
- 6.5 Hit the **CALL** button to make the transaction



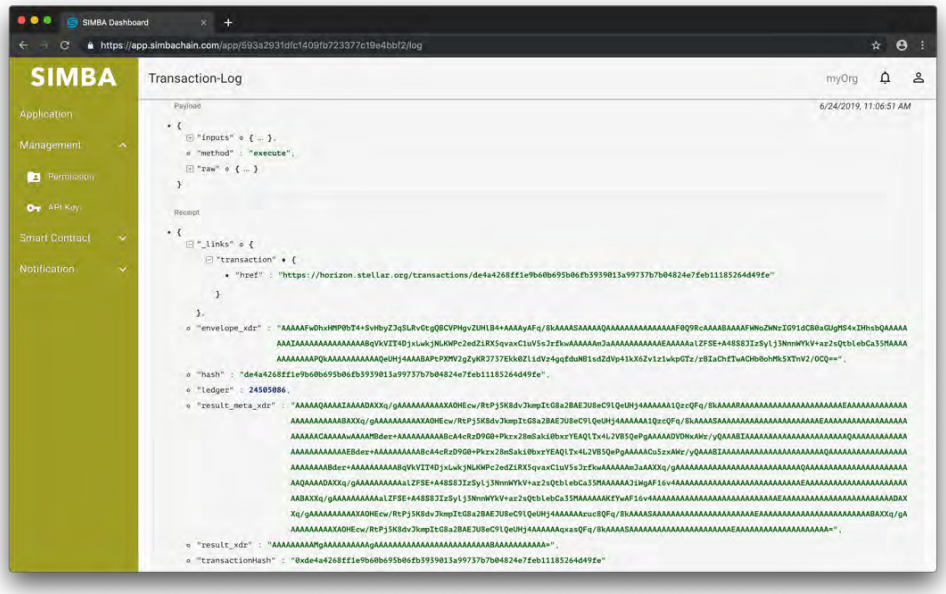
- 6.4 The transaction will show up on the list on the right side



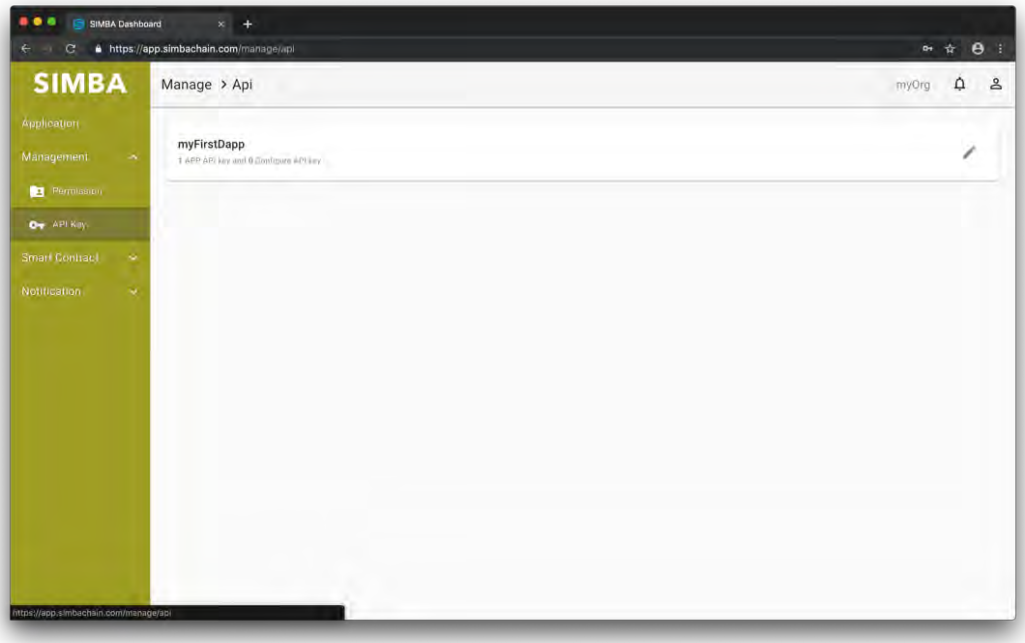
- 7. Check the Transaction
    - 7.1 Click clipboard to check transaction



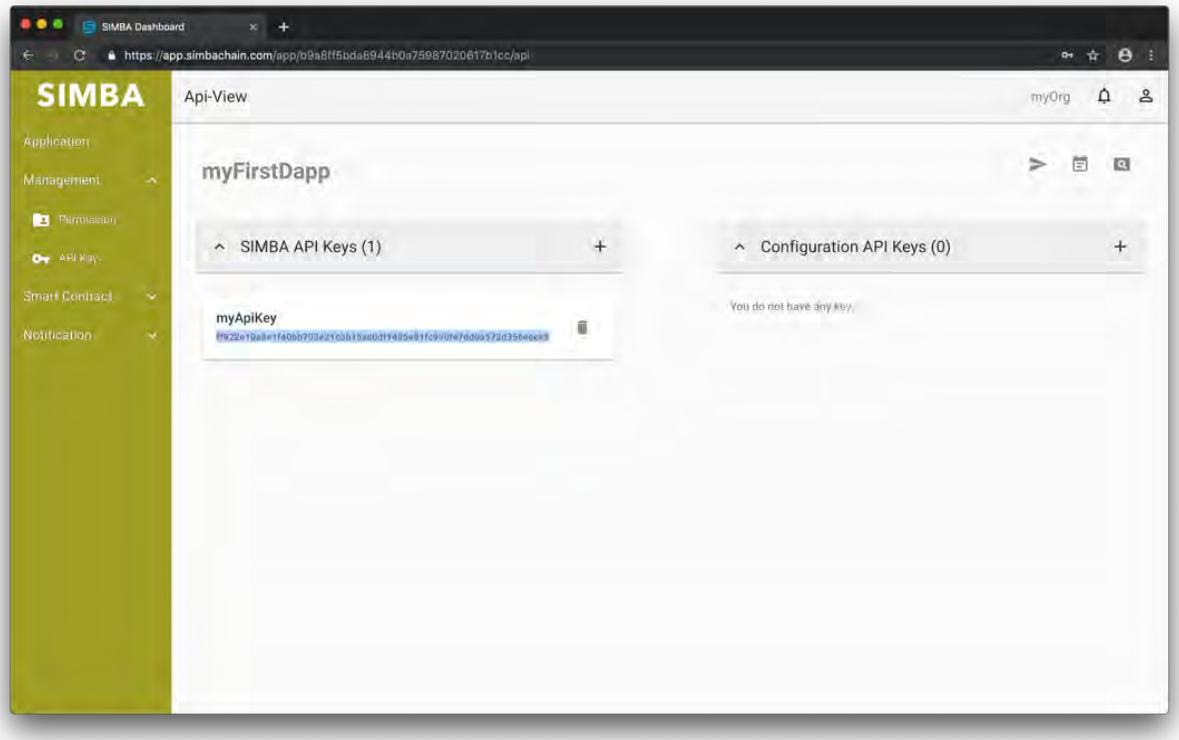
- 8. Add API Keys
    - 8.1 Click Key icon or **API Key** under **Management** on the left navigation bar then click application you want to add the API keys to add keys



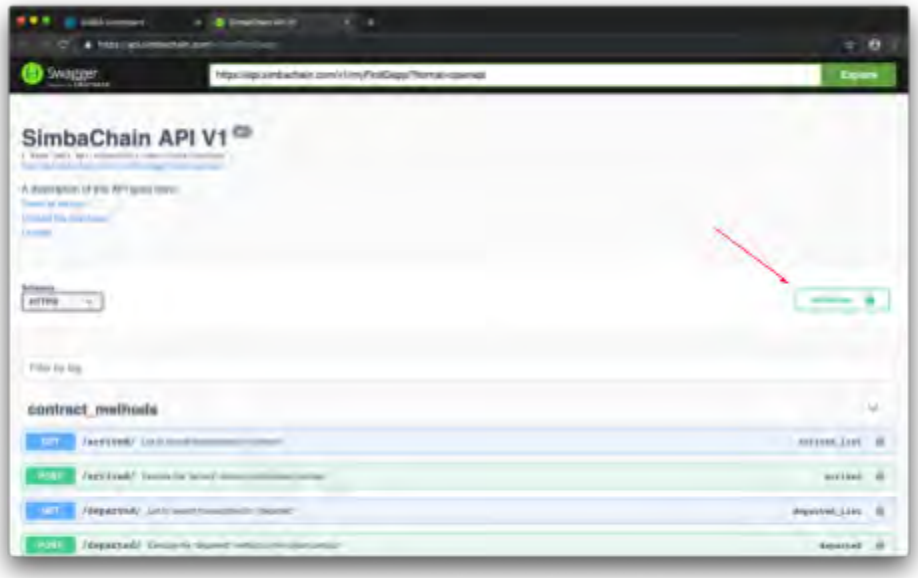
- 8.2 View Added Keys



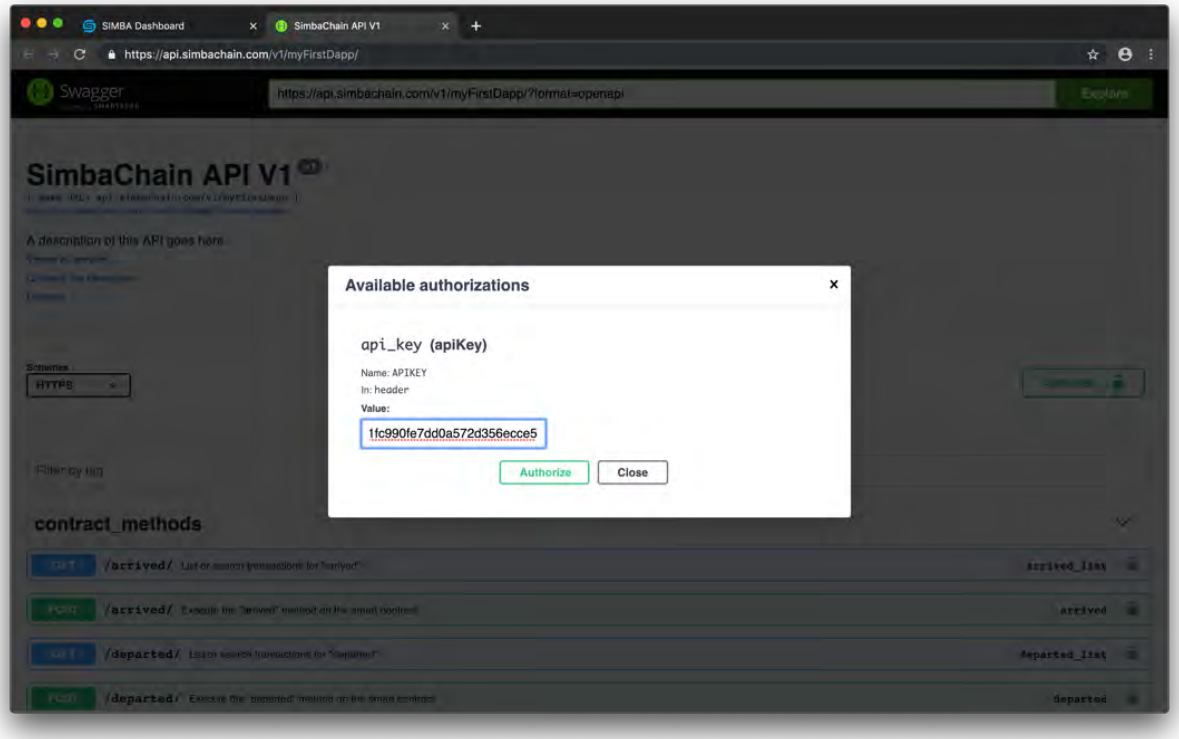
- 9. **CALL EXTERNAL API ON SWAGGER**
    - 9.1 Click the SIMBA icon to open Swagger API page
        - **Click on info icon in upper right to display application info**
        - **Click Simba Icon under API access to view Swagger API page**



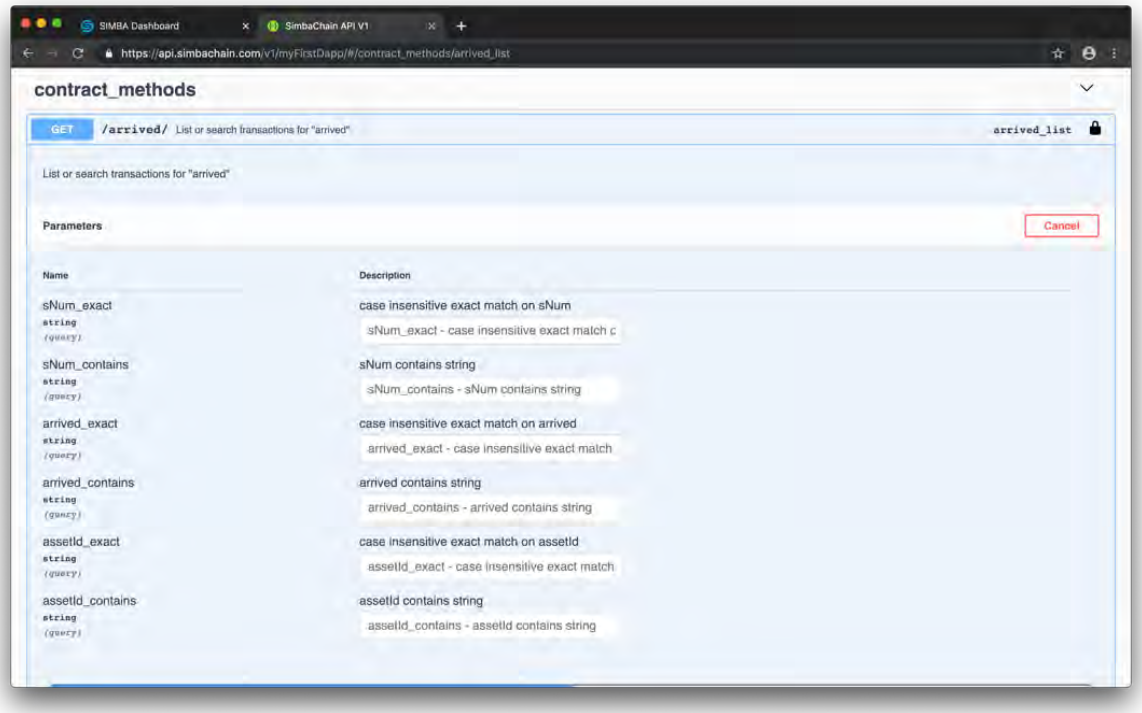
- 9.2 Click **Authorize** Button



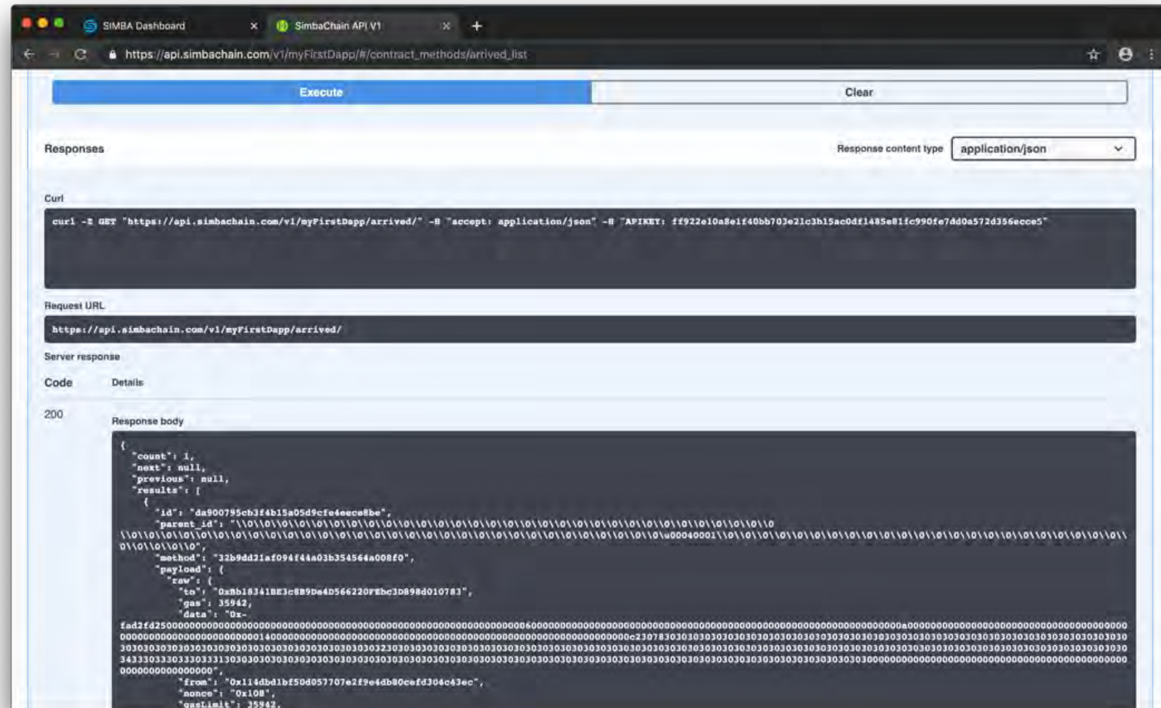
- 9.3 Authorize with the API key

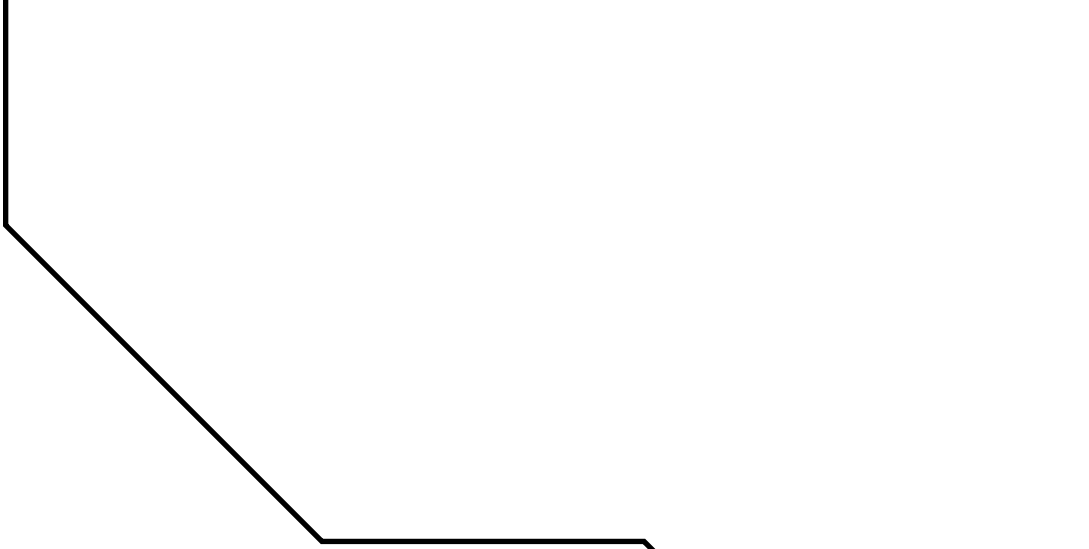


- 9.4 Make a GET request



- 9.5 Fetch the results that made on the dashboard





simbachain.com
574-914-4446
info@simbachain.com