QModeler-Gnosis Integration

Content

Introduction

The **purpose of this document** is to specify the requirements and scope of the project that is going to integrate existing QModeler products and Gnosis Safe. We will Call the project QModeler Gnosis Integration.
The project would integrate the Gnosis safe protocol with our No-Code protocol assembler, QModeler, so that Gnosis safe would appear as an icon on the pallet of our platform's development screen (see image 1) that could be dragged onto our artboard and connected with other other protocols to allow the easy assembly of payment systems, reward cards, asset tracking etc. More about our platform here->. explainer video. By interacting with an icon on QModeler's artboard users will be able to.
(i) create safes
(ii) transfer money between Safes
(iii) transfer safes between individuals (swap owners)

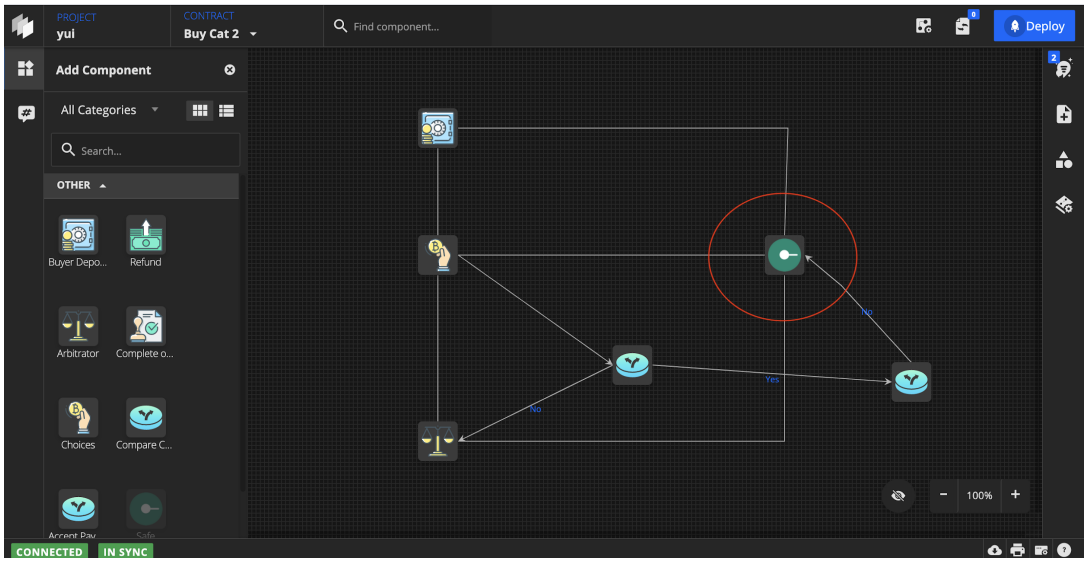

Image 1

The use of No-Code is new but is picking up speed and according to Gartner, 65% of application development will be low code by 2024 and has gone mainstream. Example Venture Beat.

No-Code widens the developer pool by decreasing the technical requirement for technical proficiency. Blockchains steep learning curve and disruptive nature makes it an ideal application for No-Code technologies and for applications developed by citizen programmers.
Gnosis safe's unique deployment model and integration with a relayer makes it ideal for an integration component. Our team is also very familiar with Gnosis Safe.

By integrating QModeler and Gnosis Safe it is likely to see the number of deployment of Gnosis safes as well as the amount of crypto held in Gnosis safe to increase.

The integration of Gnosis Safe will be an important step in creating a platform that supports most major protocols to enable building new as yet undiscovered applications by dragging and dropping existing protocols.

User Requirements

This section describes user requirements that describe the scope of the final technical solution for the QModeler and Gnosis Integration

1. Users will be able drag a Gnosis safe icon from the pallet to the artboard.

2. Users will be able to connect other components to the Gnosis safe icon and set an operation send, clone, swap owner,
3. Users will be able to connect Gnosis wallet to another component and select an operation to send token
4. Users will be able to view the chain of wallet ownership in our Dapp
5. Users will be able to sign transactions for Gnosis safe wallets to any wallet that uses WalletConnect
6. Users will be able to see tokens and amounts from our DApp
7. User can pay for gas using tokens in his wallet
8. User can deploy an application that uses Gnosis safe to Ethereum, XDai
9. Users will be able to deploy applications that use the Gnosis Safe to:
    a) Ropsten Network
    b) Kovan network
    c) Rinkeby network
    d) GanacheCLI

Technical Requirements

This section describes technical requirements that describe the scope of the final technical solution for the QModeler and Gnosis Integration

1. The Gnosis safe icon will be used as a component in our artboard pallet.
2. On deployment of our model new instances of Gnosis Safe will be created with the owners configured. .
3. QModeler routing logic and send compomponent will become Gnosis Safe aware.
4. Ferdon will develop visual layer/UX for those templates/smart contracts
5. QModeler will automatically formally verify the Gnosis Safe code on deployment to provide deep verification according to the users requirements.
6. Documentation on how to use the Gnosis Safe component will be provided as well as tutorials and video tutorials

7. Integration with the Gnosis Safe Transaction Service will be provided. Analytics will be provided by the QModeler DApp framework

Project

Task	Time	Deliverables
UX Design	2 weeks	High Resolution Wireframe from Artboard and Dapp
Focus Group Testing	2 days	Verification of design. Proper lexicography, UX modifications
DApp Integration with Transaction Service	3 weeks	Can view wallets, wallet ownership hierarchy and Tokens within the analytics page of the DApp
DApp Integration with Relayer	3 weeks	Users of the DApp can pay for transactions in five tokens of their choice. To be decided.
DApp Integration Wallet Connect	3 weeks	Users of DApp can sign transactions using any wallet supported by Wallet Connect
Art Board Addition of Gnosis component	4 weeks	Users can view the Gnosis Safe icon in the palette. Drag the component on the artboard. Configure the owner and policies. Gnosis wallet can be used in payment flows by being the source or target of transaction flows.
Deployer - parse deployment description or Gnosis safe and create safes	4 weeks	Users can select to deploy a process that includes Gnosis Safe to Ethereum, XDai, Ropsten, Network,Kovan network,Rinkeby Network. After successful deployment new Gnosis Safe wallets will be deployed and ready to participate in the defined process.
Final integration testing	3 weeks	Users will be able to implement new use cases that use Gnosis Safe without writing code and interact with the implementation using a DApp framework.

Team

Name		
Lan Phuong		project management, DApp development
Tim O’Brien		Architecture, project management, blockchain development, Java
Vu Vo Than		Java, Solidity developer
Nguyen Tim		Backend Python

Total Cost
$100,000 USD