

CIFI-MVP-MARKETPLACE			
Document Title	Installation and User guide for CIFI-MVP-MARKETPLACE		
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1	1.0	NFT MARKETPLACE	1

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HOW TO CREATE A LISTING FOR YOUR NFT(ASA)?

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Introduction:

This plan serves as the primary guide and record for deploying notebooks, views, and supplementary configuration associated with the reporting component deployment in the Algorand Network. This document includes:-

- The context for the system
- Contract Creation instructions
- Ui Deployment instructions
- User Guide to test the functionalities.
- Evidence is required to document the execution of the installation process, which may include screenshots captured in this document or links/references to other documents produced during the installation.

Prerequisite:

This Technical Installation Plan uses the following tools.

Table 1 – For Contract(APP) Deployment

Tool	Definition	Link
IntelliJ ide	IntelliJ IDE is a Development Environment used to write, compile and debug Teal code.	https://www.jetbrains.com/idea/download/#section=windows
AlgoDea	AlgoDEA IntelliJ plugin provides an end-to-end development life-cycle on the Algorand blockchain using IntelliJ IDE. For that end-to-end development, we need to config the algorand node.	https://plugins.jetbrains.com/plugin/15300-algodea-algorand-integration https://developer.algorand.org/articles/making-development-easier-algodea-intellij-plugin/
Myalgo wallet	Myalgowallet is an algorand wallet used to store, send and receive algorand and ASA.	https://wallet.myalgo.com/home
Purestack api	PureStake provides highly reliable, secure access to native Algorand REST APIs for MainNet, TestNet and BetaNet.	https://developer.purestake.io/

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Test algos	For Testing purposes, we need some test algo coins. We can get the algo coins from the algo dispenser.	https://bank.testnet.algorand.network/
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Contract Creation Steps:

Here are the Steps for Deploying the Contract

NOTE: Before entering into the Contract Creation steps following need to be prerequisites.

- The IntelliJ Ide needs to be configured with Algorand Node.
- Contract Developer needs to have accounts with some test algos

Step1:

Create new algorand project on IntelliJ idea and create following program file.

- approval_program
- clear_state_program
- escrow_program

You can get the Code for the following files below Github link

<https://github.com/BosonLabs/CIFI>

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```

// approval_program.teal
// 770101
// app_local_put
// txn 3 TypeEnum
int axfer
==
bz failed
gtxn 3 AssetReceiver
byte "E"
app_global_get
==
gtxn 4 AssetSender
gtxn 1 Sender
==
&&
gtxn 4 ConfigAssetManager
byte "E"
app_global_get
==
bnz finished

```

Algorand Console

```

{
  "gen": "Testnet-v1.0",
  "gh": "SG01GKSzyE7IEP1TxCBYw9x8FmnrCDex19/cOUJ01I=",
  "lv": 18760526,
  "snd": "FLEQB17JkgDQA+Gs2J0XNgeTp18y+mvr0m125A4QVJ8=",
  "type": "appl"
}

```

Check transaction details here : <https://testnet.algoexplorer.io/tx/XFLME7F6F3BR2V06FXVW06F37CPXUCDH86TAM3WSQFOXAH2YFA>

Stateful smart contract app updated with app id : 54915727

Step2:

To **CREATE APP** follow the below step. Open **approval_program**. The teal file then, In the configuration, contract setting set local and global state as shown in the below screenshot.

To set local and global states, follow this step.

Right-click → Algorand → Stateful contract → create app

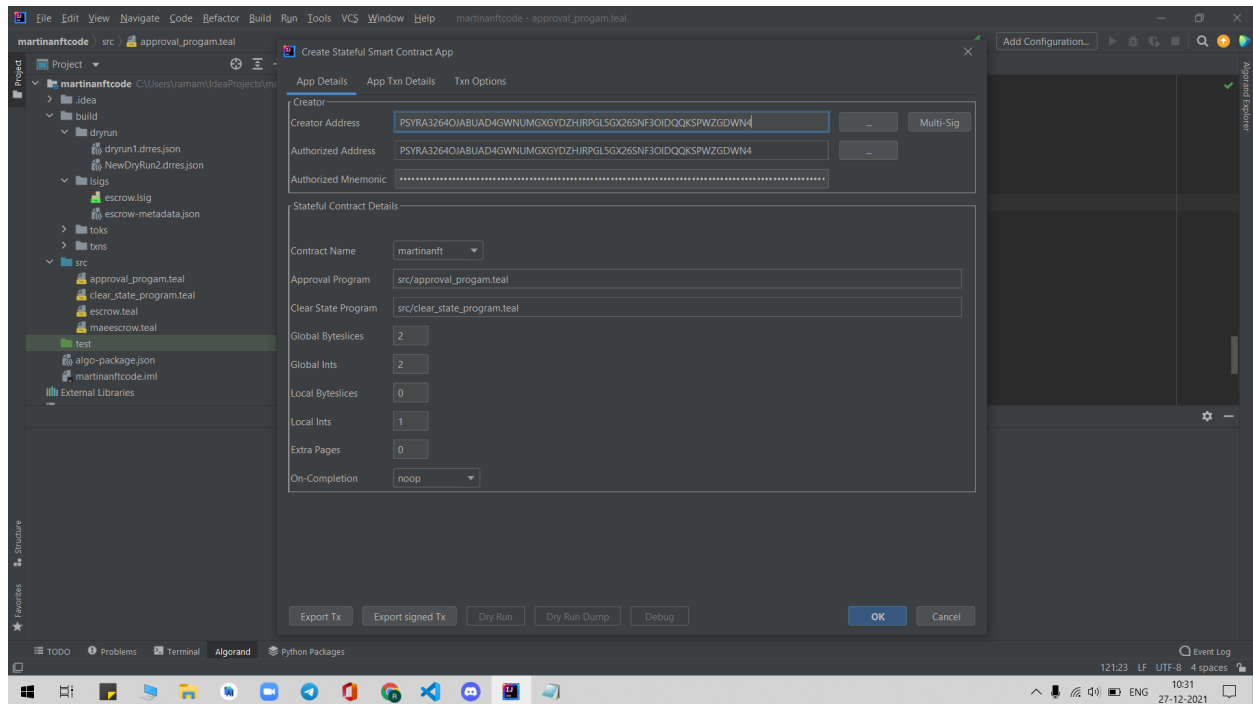
Global Byteslice → 2,

Global Ints → 2,

Local Byteslices → 0,

LocalInts → 1

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NOTE: After clicking **ok** App-id will be created, note that App-id, we will use that App-id in upcoming steps.

Step3:

Get App-id and replace the App-id in the escrow contract. Follow the below step and refer to the below screenshot.

Right-click → Compile TEAL

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NOTE: After clicking **ok** Escrow Address will be created, note that Escrow Address, we will use that Escrow Address in upcoming steps.

Step4:

To **UPDATE APP** follow the below step. Open **approval _program. the teal** file then,

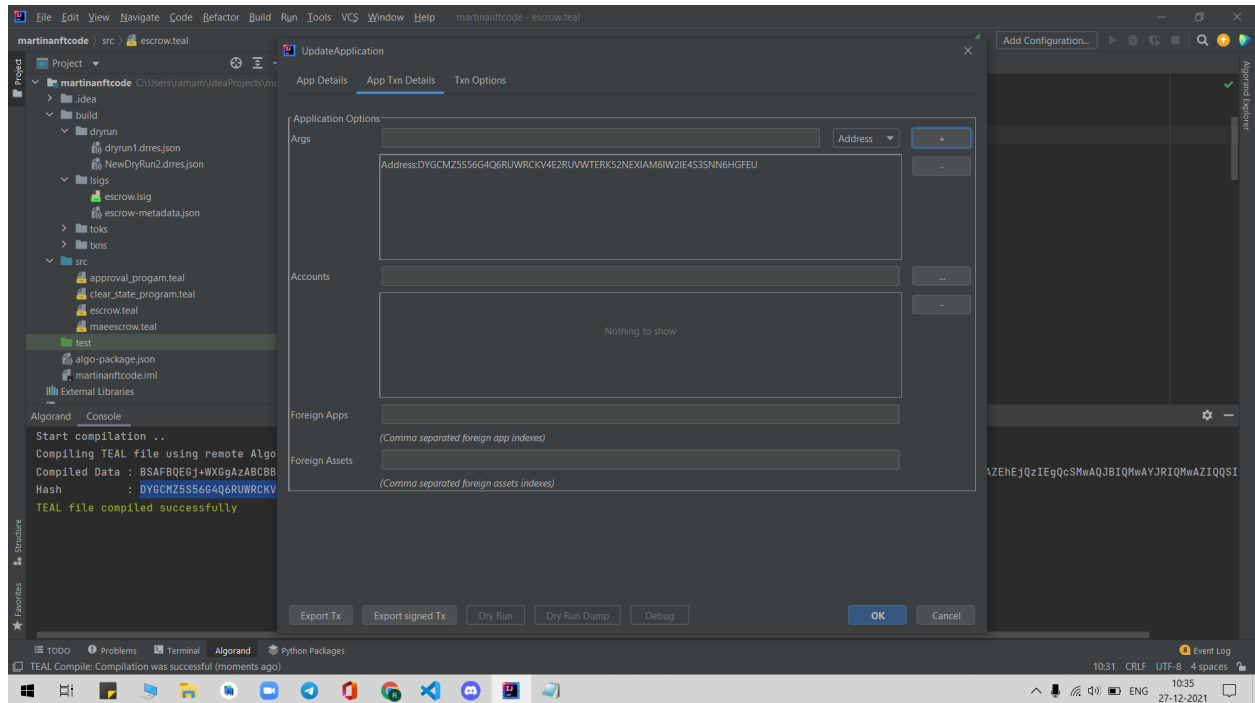
Right-click → Algorand → StatefulContract → Update

Application

Then in App details pass creator address, then click App Txn Details on next tab, add Argument **Escrow Address** and change type String(default) to Address, then click ok.

(Creator address → owner of the CIFI-MVP- MARKETPLACE)

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NOTE: note that **Escrow Address** and **App-id** we will use that in upcoming steps.

Step5:

Fund Escrow address. use the below link to fund escrow.

<https://bank.testnet.algorand.network/>

1. Open the above link and paste your escrow Hash and click Dispense. Then 10 test algos are funded to your escrow address.

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Prerequisite:

This Technical Installation Plan uses the following tools.

Table 2 – For UI Deployment

Tool	Definition	Link
Vs code	Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications	https://code.visualstudio.com/download
NodeJs	As an asynchronous event-driven JavaScript runtime, Node.js is designed to build scalable network applications	https://nodejs.org/en/download/
Npm	npm is a software Library (Registry) and also a software Package Manager and Installer	https://www.npmjs.com/package/npm-install-global
Yarn	Yarn is an alternative npm-client used for working with JavaScript as a package manager that. It also allows us to share code with other developers worldwide and use solutions from other developers.	https://www.liquidweb.com/kb/how-to-install-yarn-on-windows/
Git	Git is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows	https://git-scm.com/downloads
GitHUB	GitHub, Inc. provides Internet hosting for software development and version control using Git.	https://github.com/login https://code.visualstudio.com/docs/editor/github
Pinata	Pinata is the simplest way to upload and manage files on IPFS.	https://www.pinata.cloud/

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TYPE 1

NOTE: If you want to deploy the UI with your Application Id. Kindly follow the below step.

Here are the Steps for Deploying the Codebase

Step1:

Clone this below Github repository:

<https://github.com/BosonLabs/CIFI-NFT.git>

Step2:

Open config.json file and replace

application id Values with the values you have created in previous steps.

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Step3:

Install:

yarn install / npm install

Deploy:

yarn start / npm start

TYPE 2

NOTE: If you want to deploy the UI with CIFI-MVP-MARKETPLACE Application Id. Kindly follow the below step.

Here are the Steps for Deploying the Codebase

Step1:

Clone this below Github repository:

<https://github.com/BosonLabs/CIFI-NFT.git>

Step2:

Install:

yarn install / npm install

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Deploy:

yarn start / npm start

USER GUIDE:

Following Steps

HOW TO CONNECT WALLET?

1. Begin by clicking a button in a dApp that says something like Connect Wallet Option
2. Tap to choose which account to connect
3. That's it! The transactions are sent back to the dApp

HOW TO CREATE NFT(ASA)?

1. Upload your file
2. Enter your NFT Name
3. Enter your Description
4. Clicking a button in the wallet connects

HOW TO CREATE A LISTING OF YOUR NFT(ASA)?

1. Begin by clicking a My-Profile button
 - Click a created tab
2. Enter the Price for your Created NFT
3. Clicking a button in the wallet connects

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HOW TO SELL YOUR NFT(ASA)?

1. Begin by clicking a My-Profile button
 - Click a created tab
 - Cursor on your Created NFT
 - Click a button in place a sale
2. Clicking a button in the wallet connects
3. Begin by clicking a My-Profile button
 - Click an OnSale tab. You can verify that your NFT is placed for sale.

HOW TO BUY NFT(ASA)?

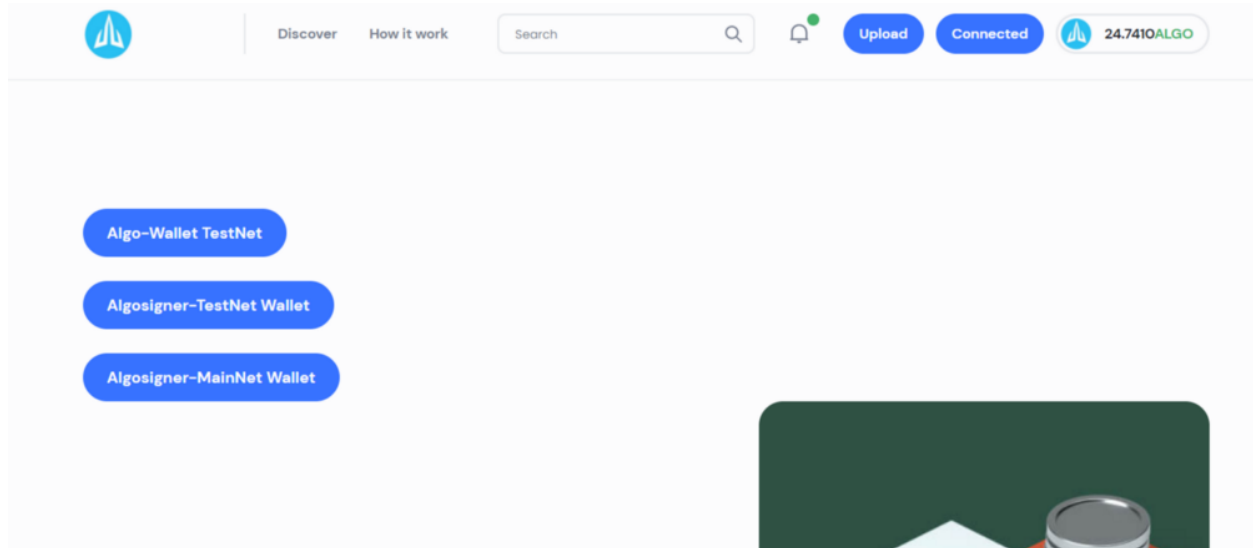
1. Begin by clicking a Discover button
 - Click the Buy button to buy the NFT you want
2. Clicking a button in the wallet connects

STEPS FOR CREATING, SALE AND BUYING?-(INCLUDE SCREENSHOT).

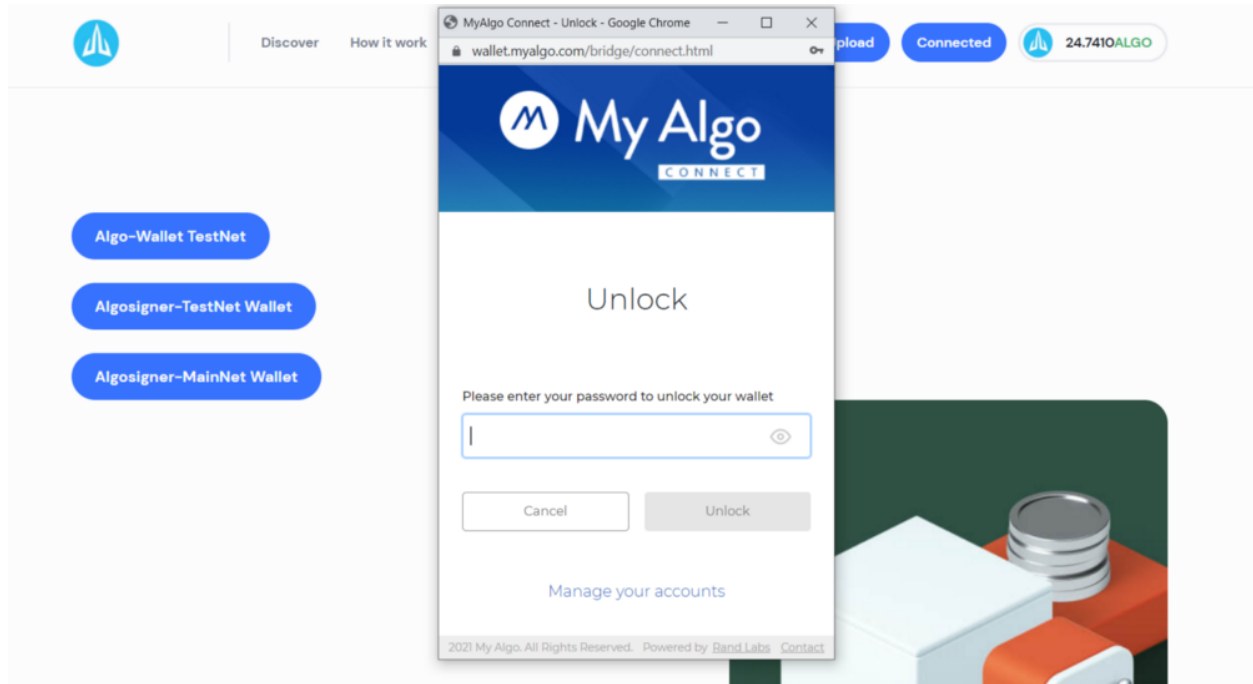
HOW TO CONNECT WALLET?

1. Begin by clicking a button in a dApp that says something like Connect Wallet Option
2. Tap to choose which account to connect
3. That's it! The transactions are sent back to the dApp

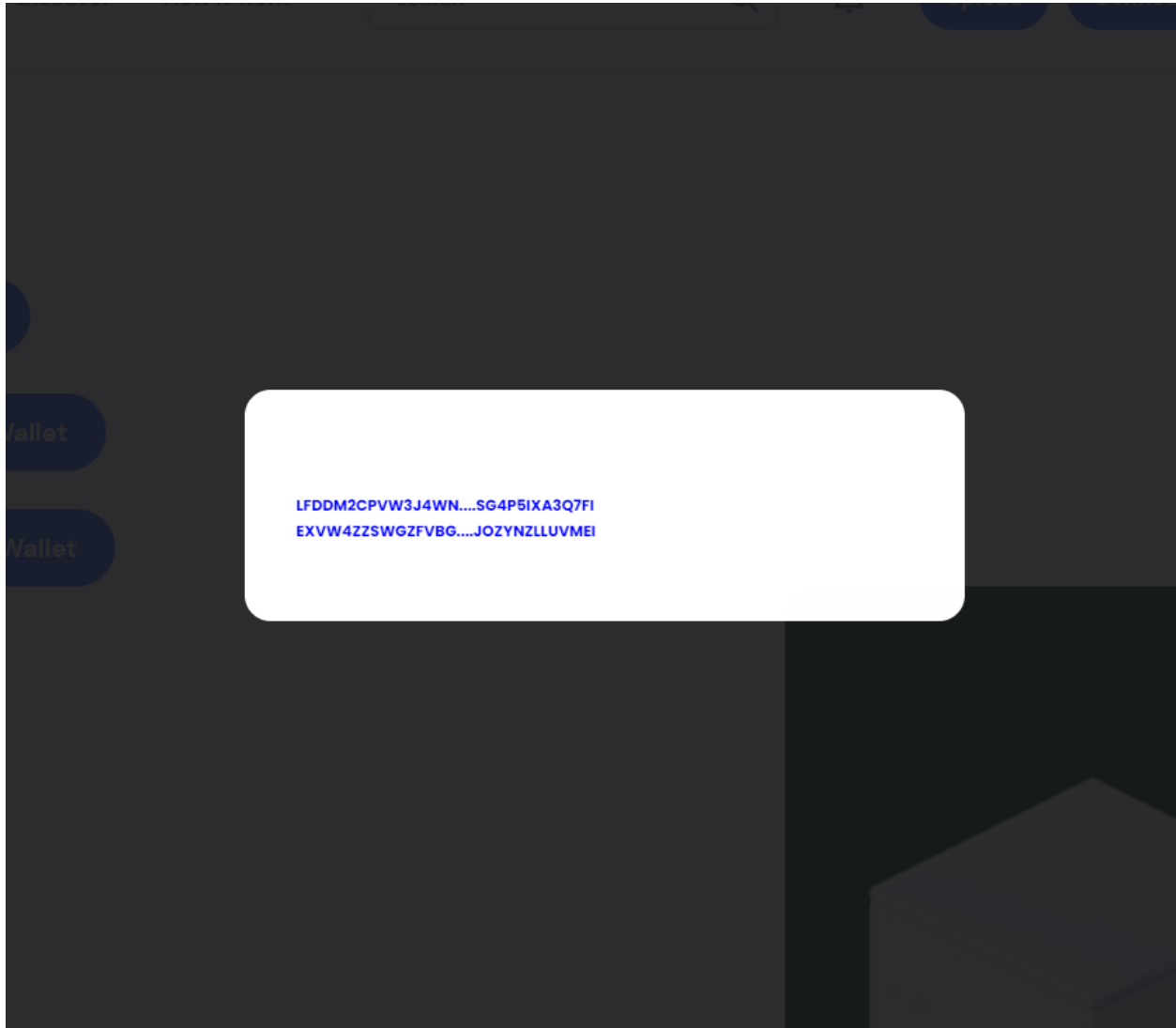
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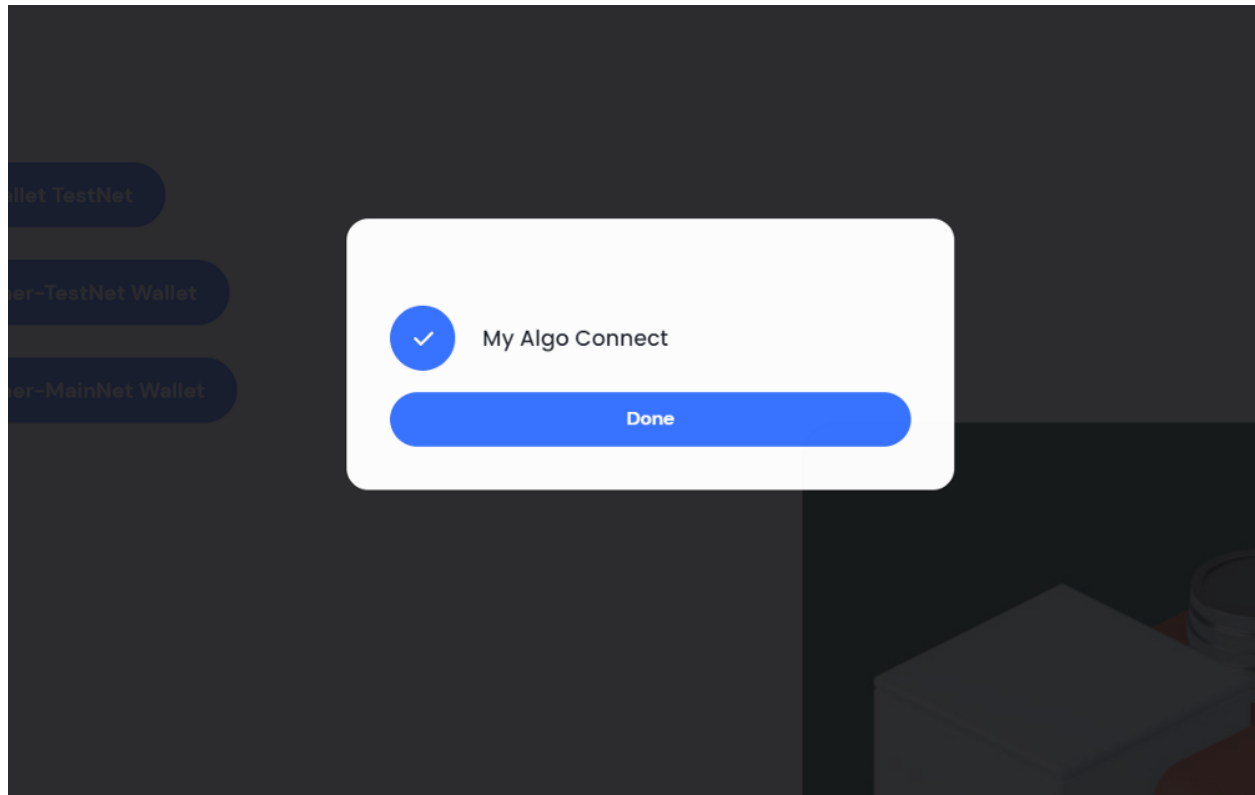
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HOW TO CREATE NFT(ASA)?

1. Upload your file
2. Enter your NFT Name
3. Enter your Description
4. Clicking a button in the wallet connect

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Create collectible

Upload file

Drag or choose your file to upload



PNG, GIF, WEBP, MP4 or MP3. Max 1Gb.

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Item Details

ITEM NAME

e. g. Redeemable Bitcoin Card with logo"

e. g. "After purchasing you will able to recived the logo..."

Minor League

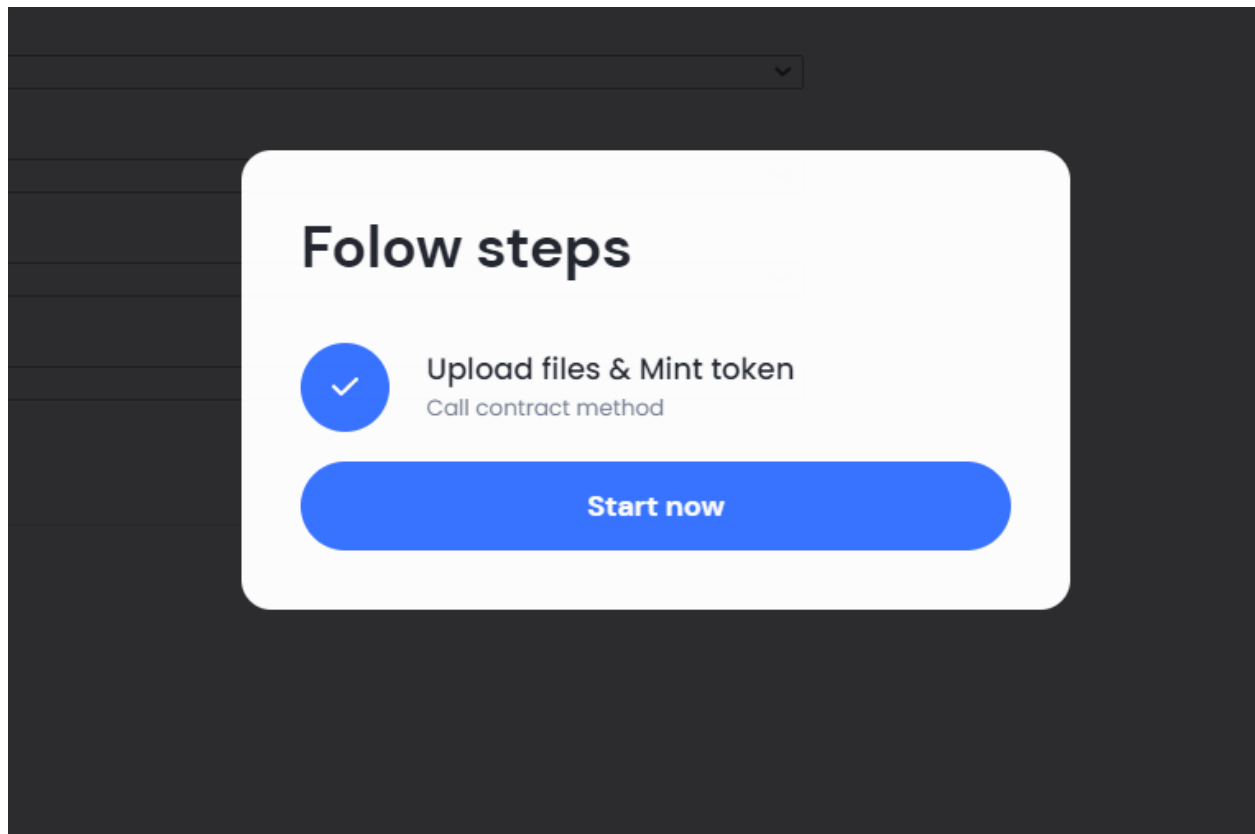
Atlanta Fire

Award

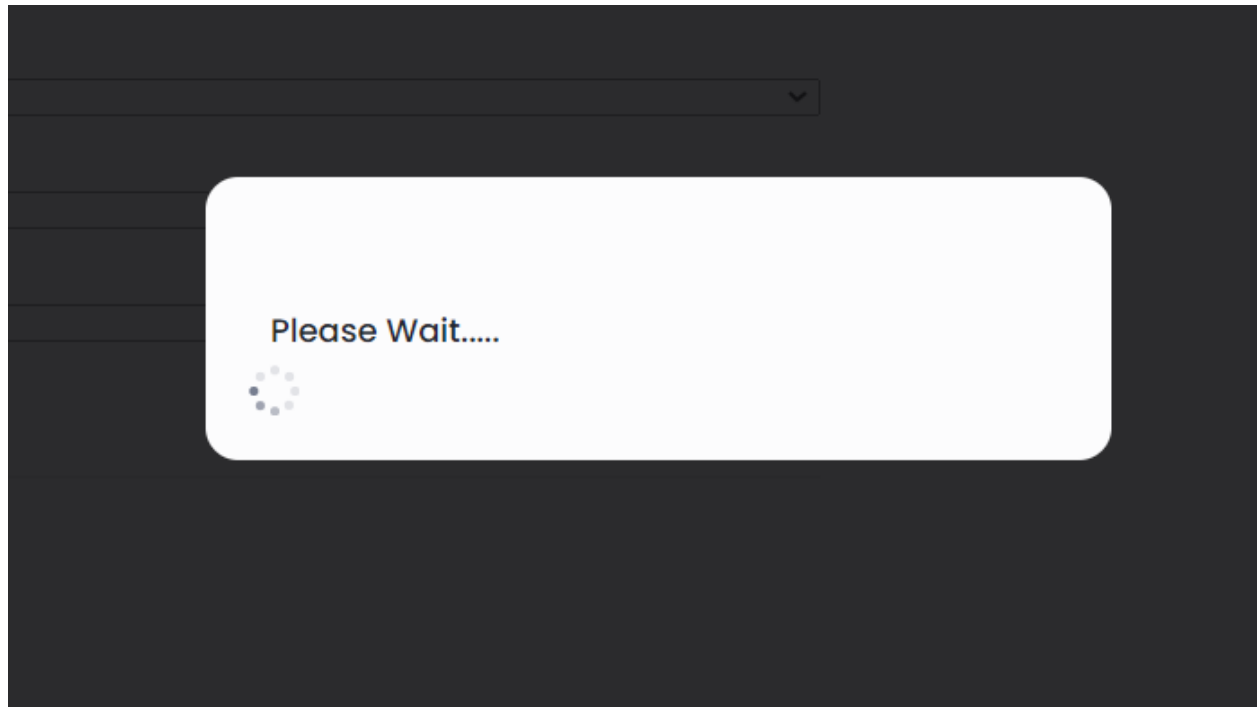
2D

Create item →

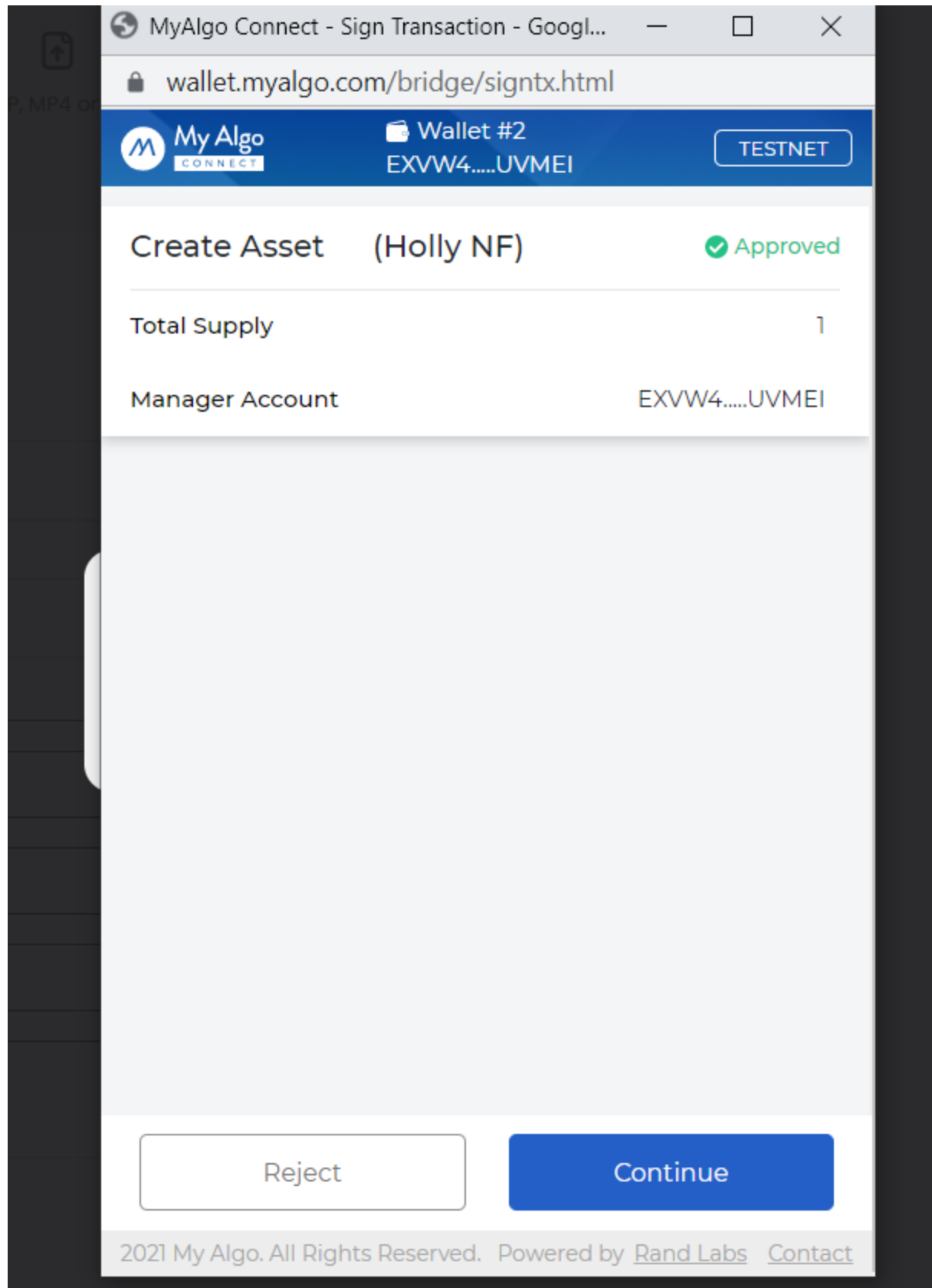
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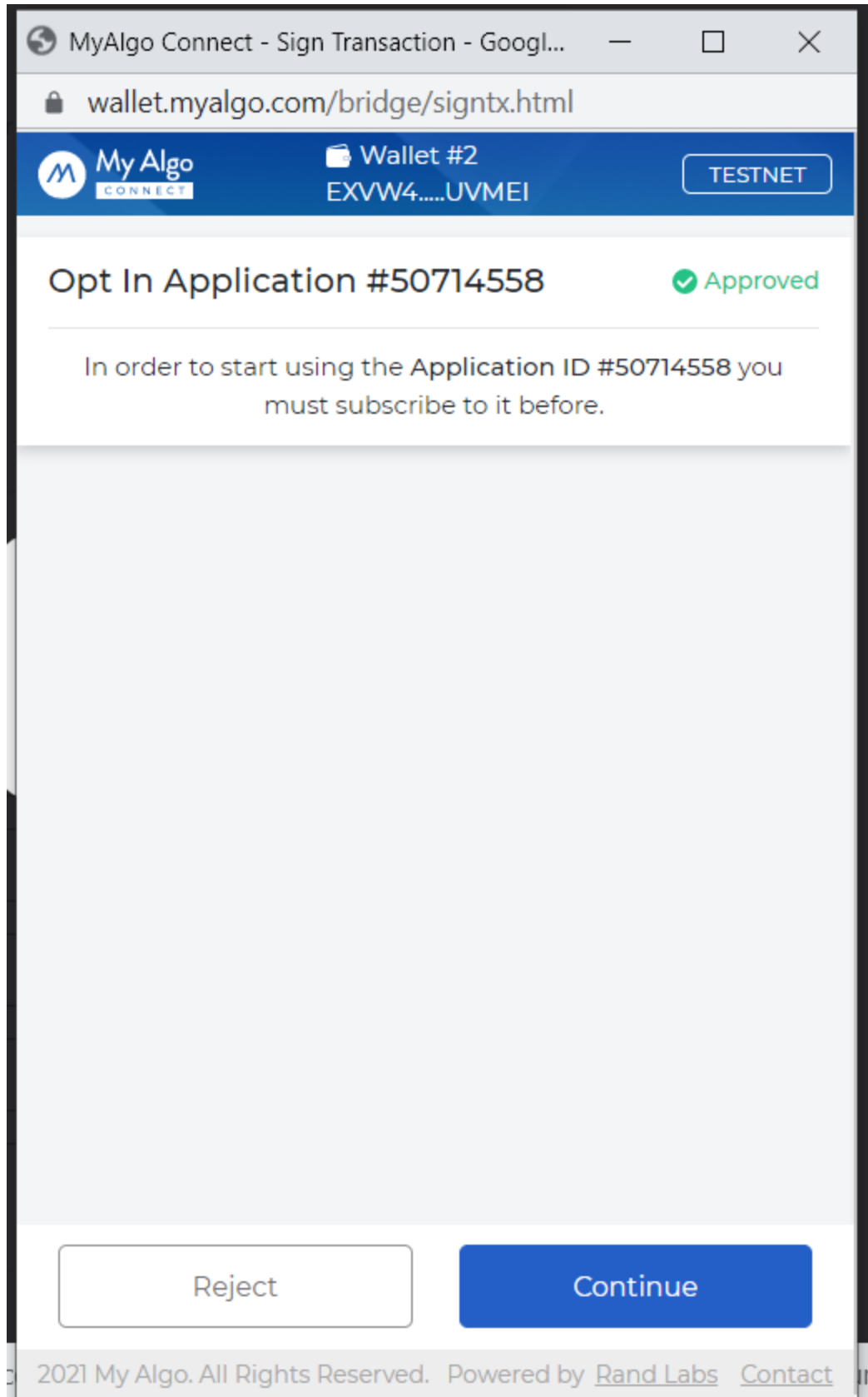
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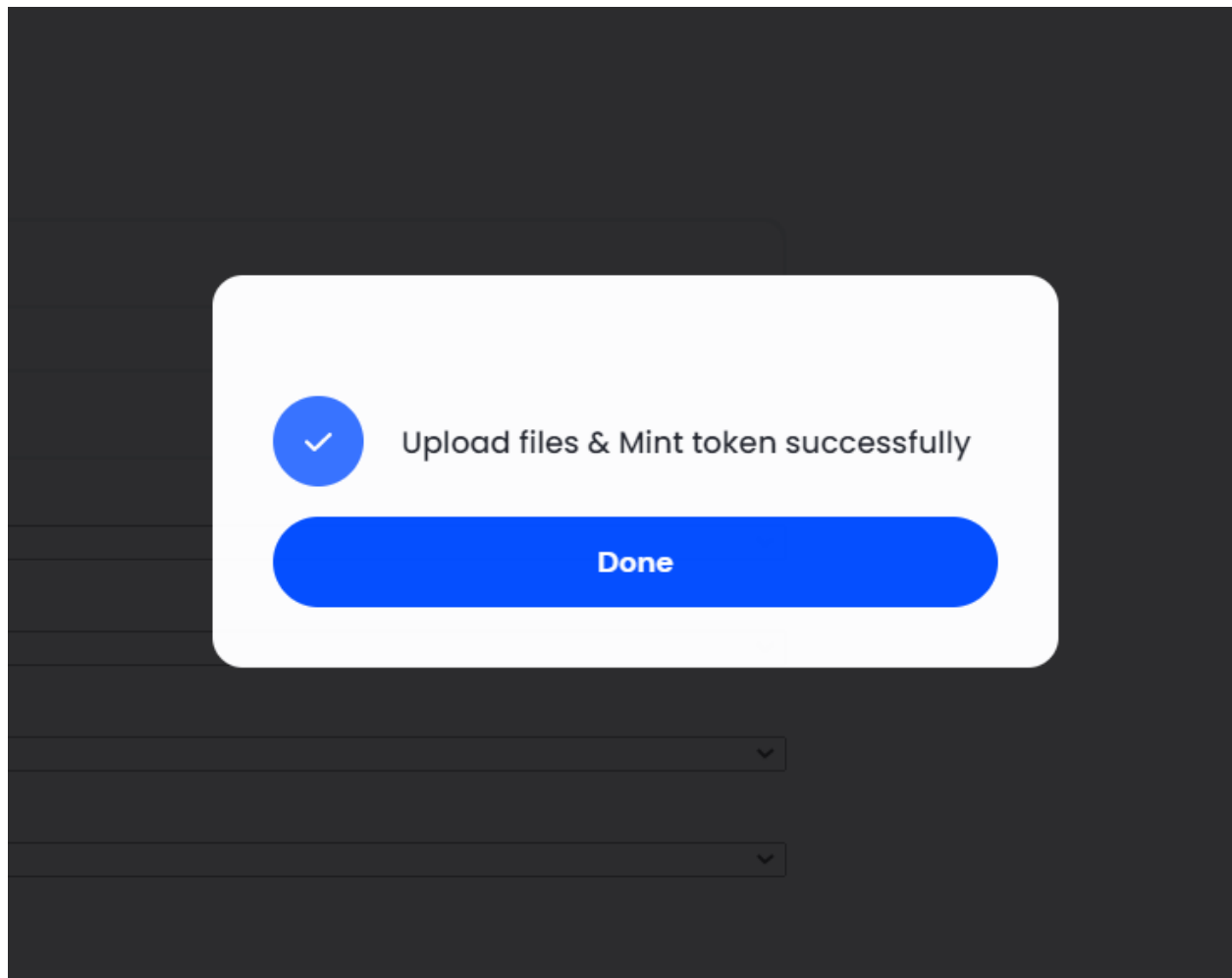
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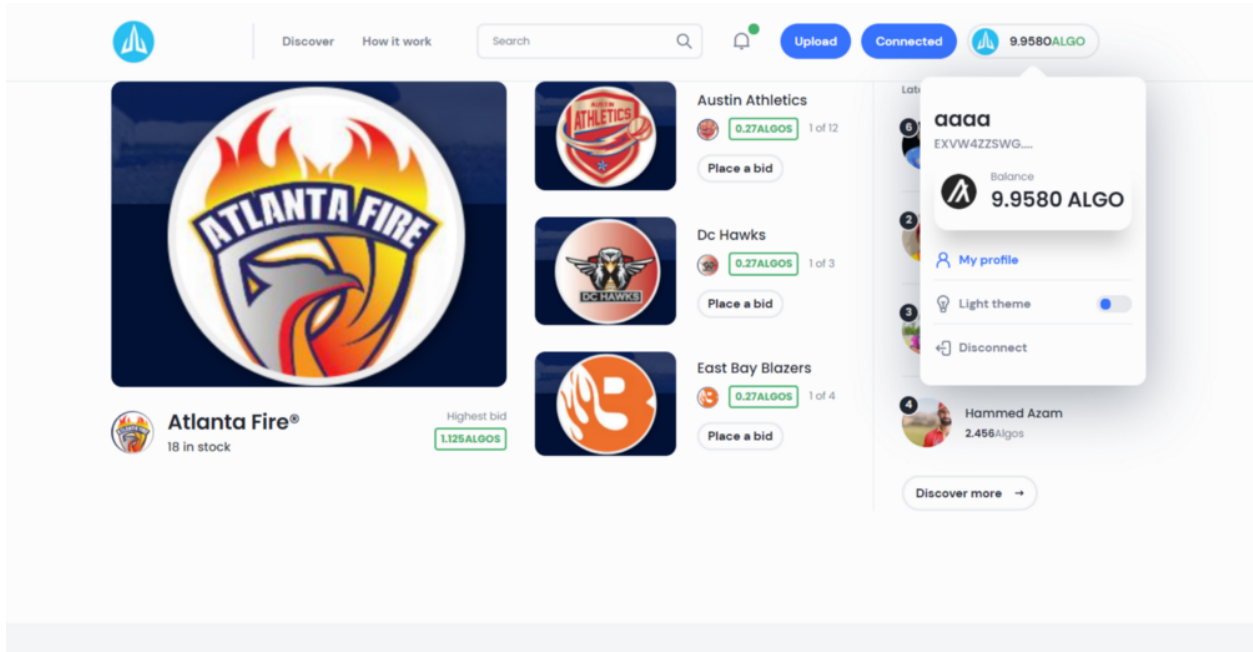
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HOW TO CREATE A LISTING FOR YOUR NFT(ASA)?

1. Begin by clicking a My-Profile button
 - Click a created tab
2. Enter the Price for your Created NFT
3. Clicking a button in the wallet connects

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aaaa

EXVW4ZZSWG....


A wholesome farm owner in Montana. Upcoming gallery solo show in Germany

<https://algoexplorer...>

Member since Mar 15, 2021


On Sale
Collectibles
Created
Likes
Collection



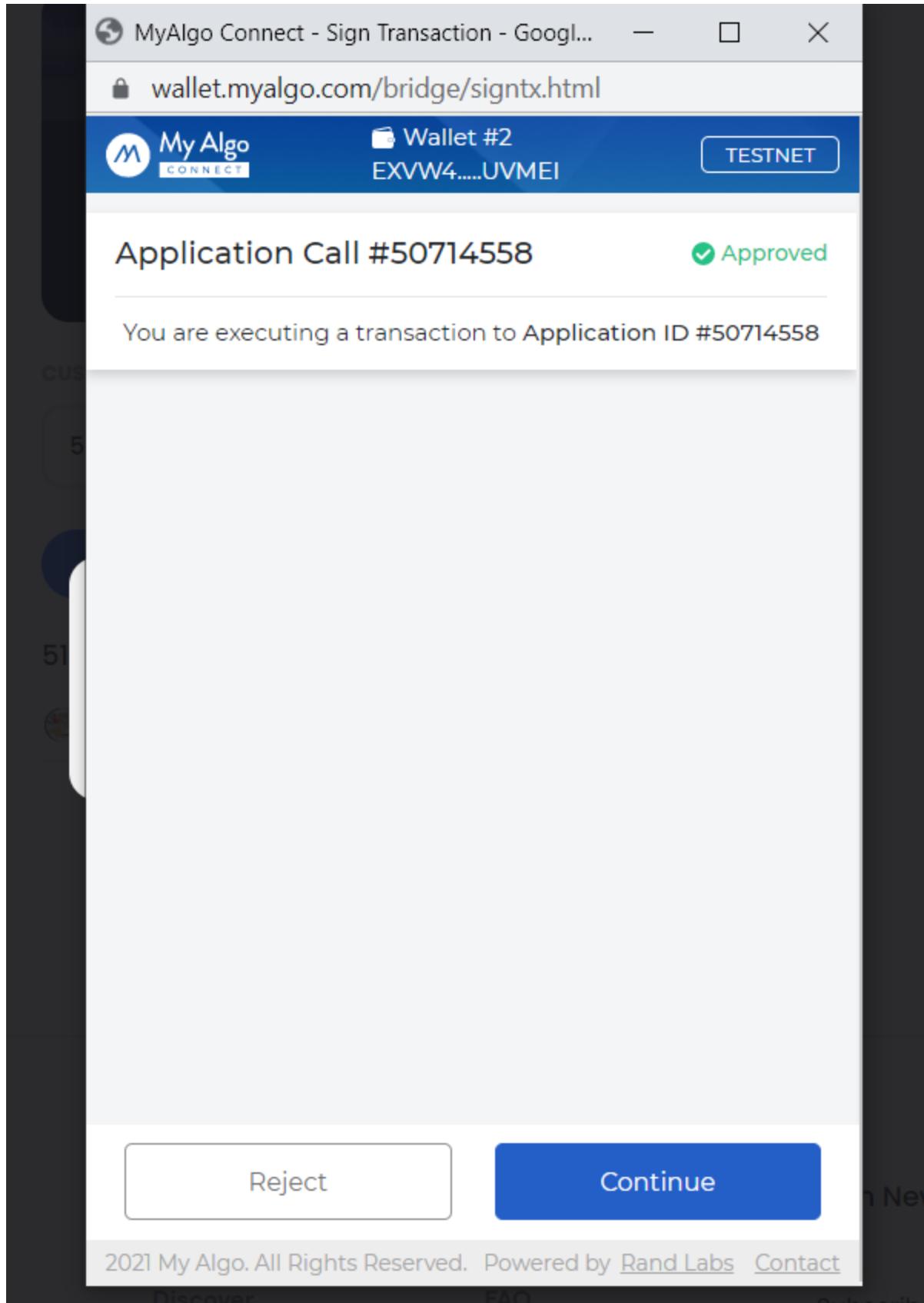
CUSTOM PRIZE

Price set

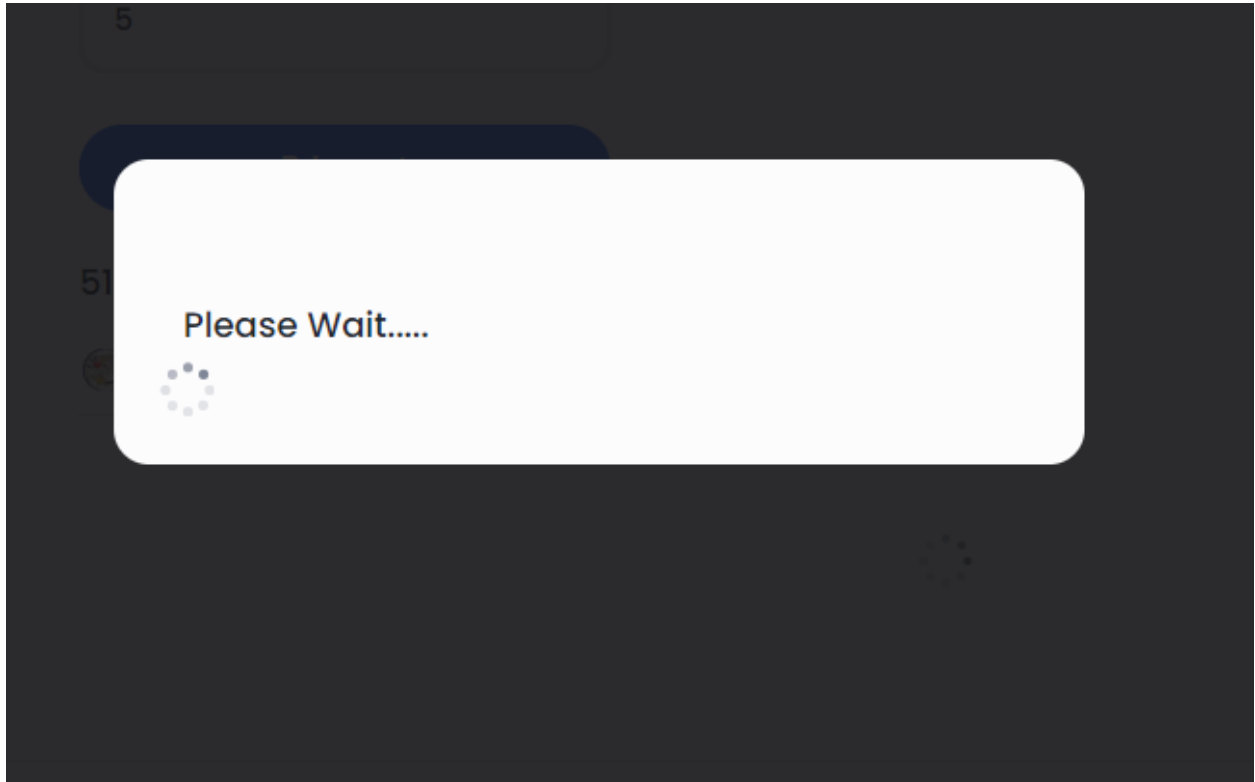
51453608


Holly NF

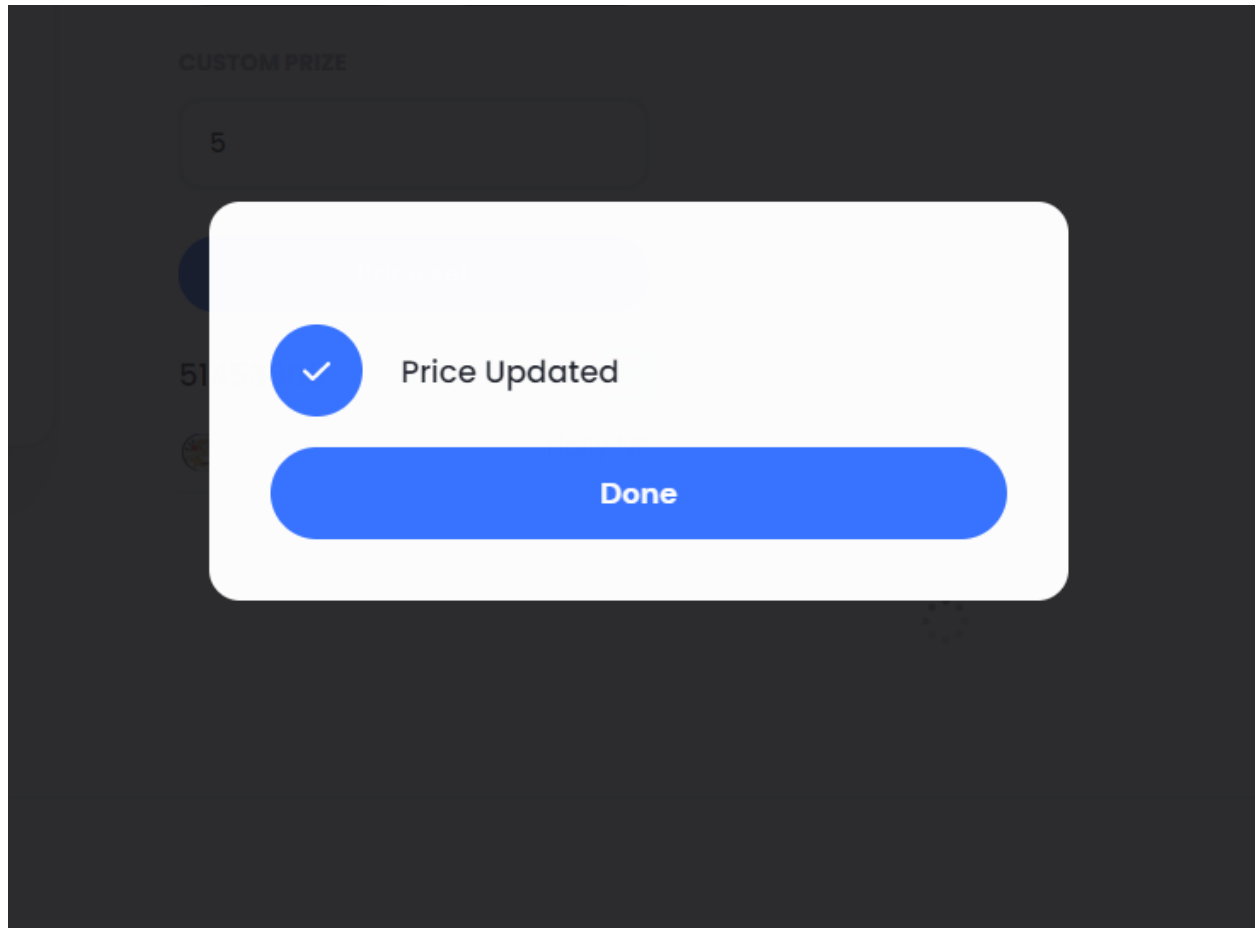
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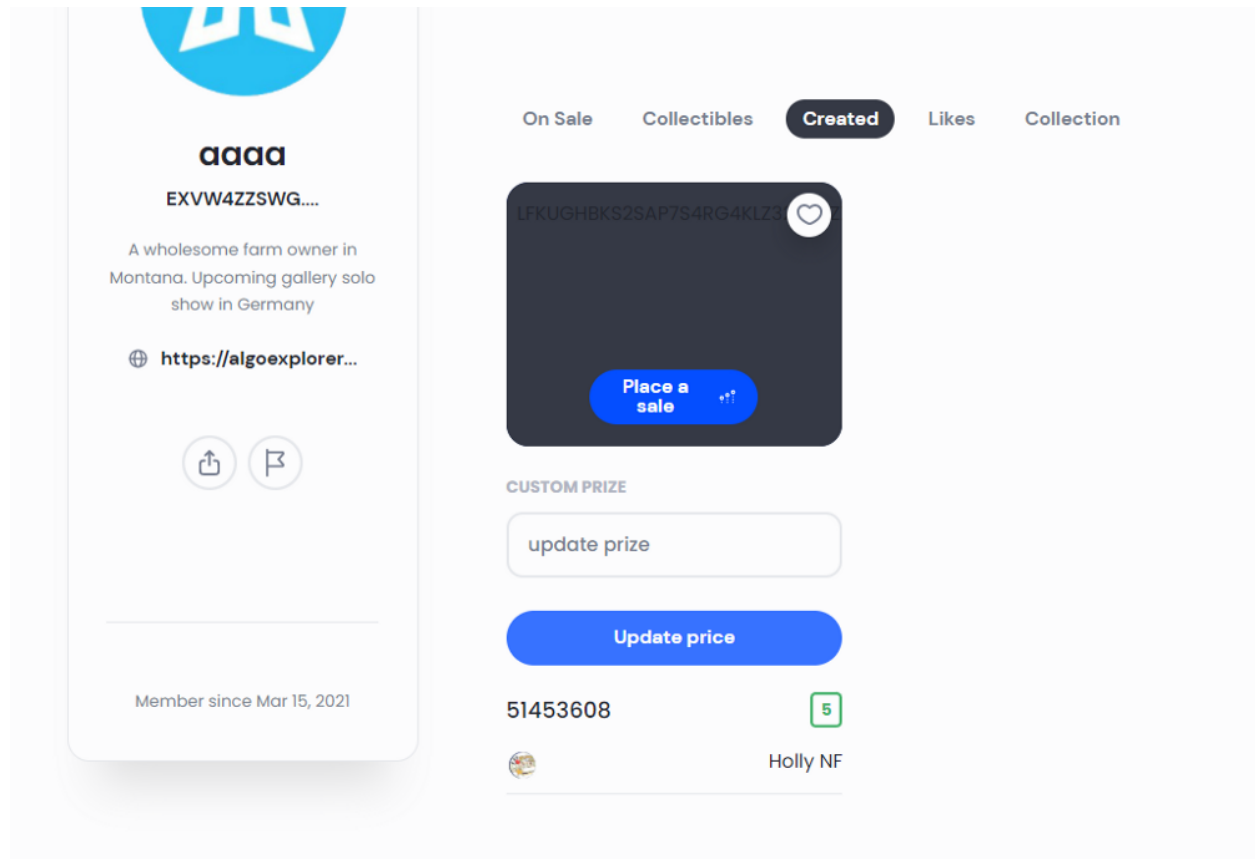
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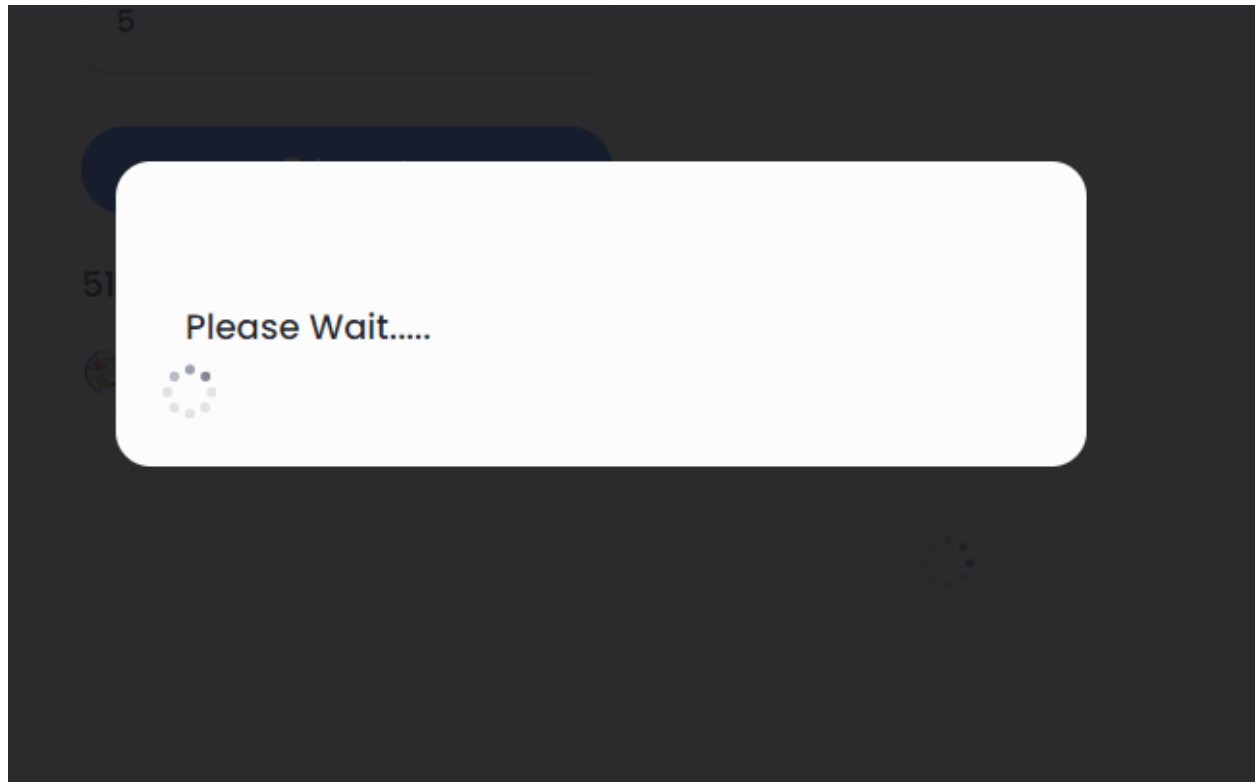
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 - Click a created tab
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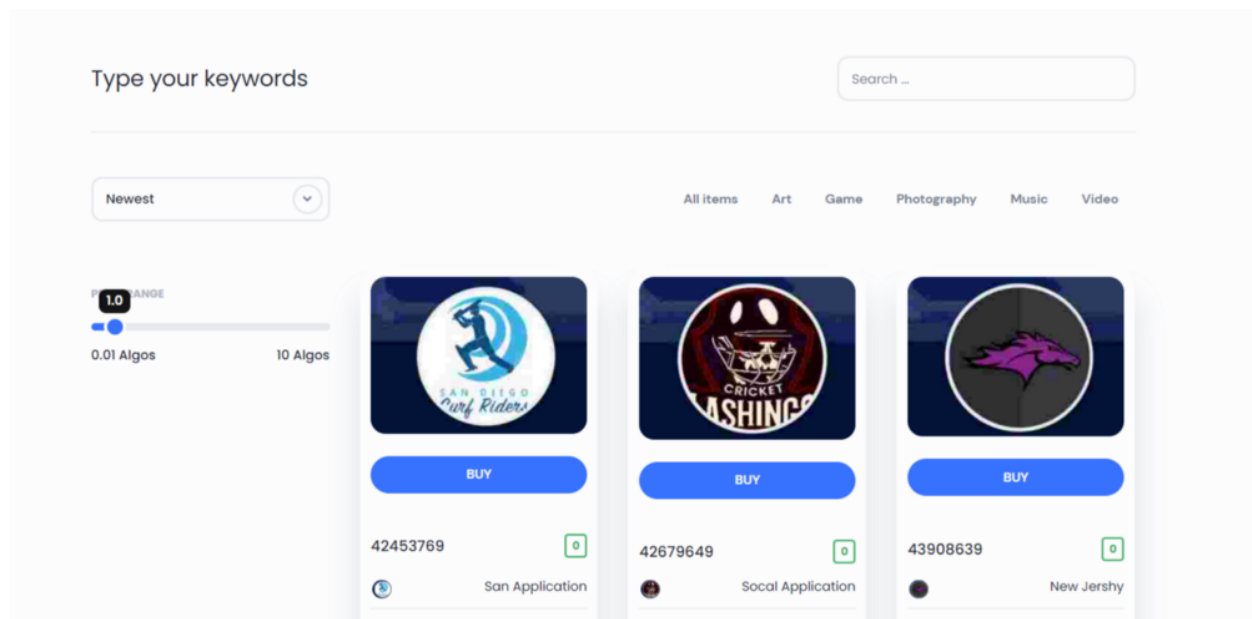
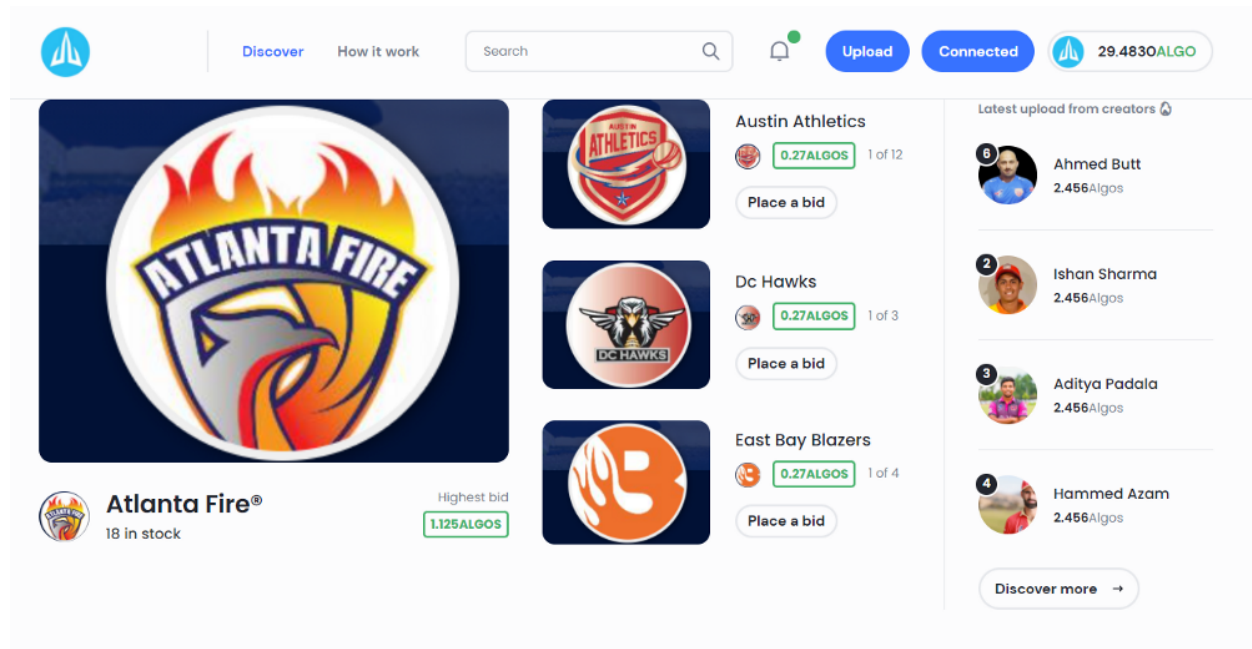


HOW TO BUY NFT(ASA)?

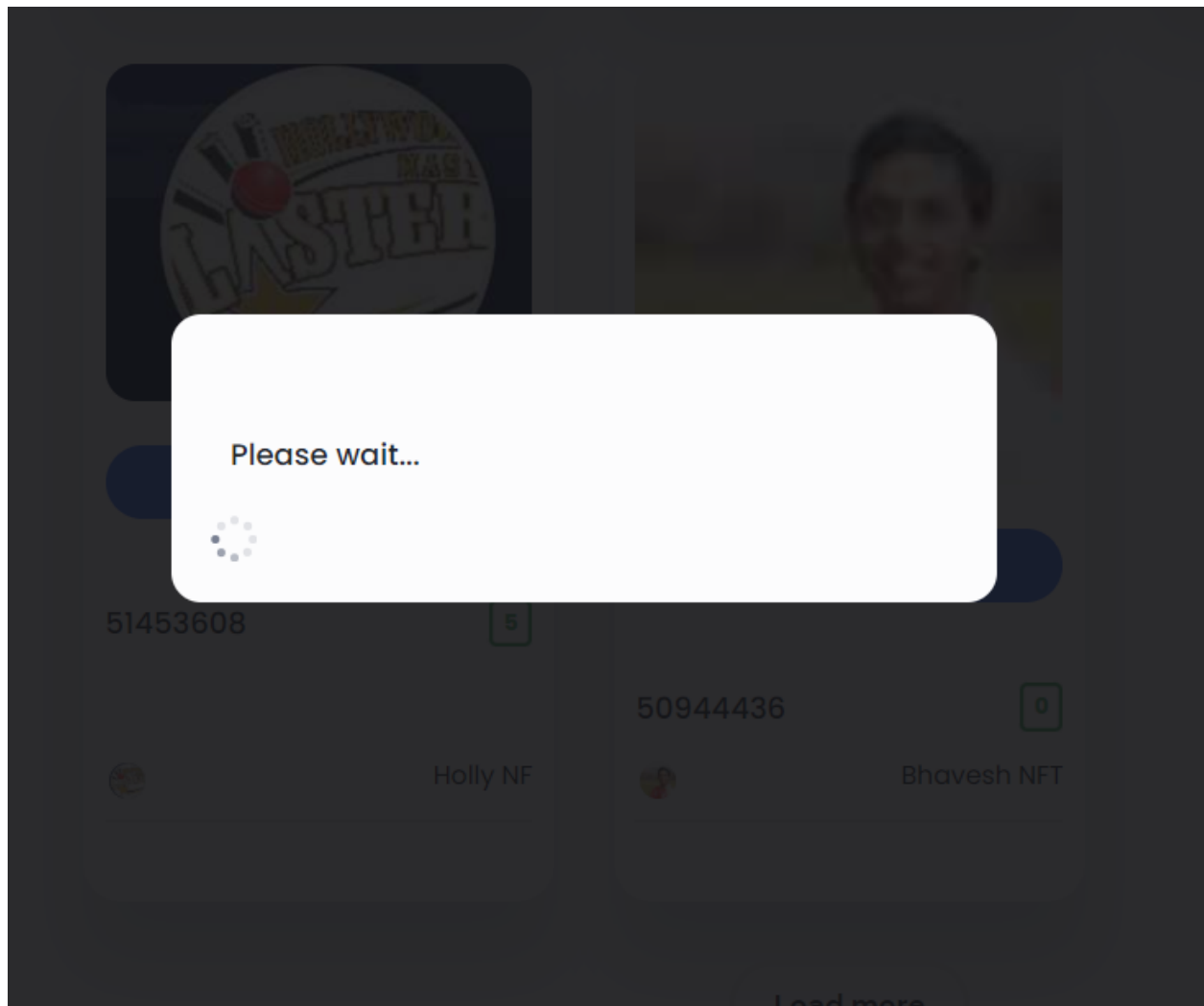
1. Begin by clicking a Discover button
 - Click the Buy button to buy the NFT you want

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2. Clicking a button in the wallet connects



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My Algo

CONNECT


Wallet #1

LFDDM.....3Q7FI

TESTNET

Opt-in Asset

#51453608

 Approved

To

LFDDM.....3Q7FI

Amount

0

Reject

Continue

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