nifi.club

NFT MARKETPLACE CONTEST SUBMISSION

MAY 24th, 2021

NiFi team presents its nifi.club NFT marketplace on Free TON blockchain. The platform is currently in MVP phase, but it is developed to become a full-scope universal NFT hub providing every facility for creation, storage, trading and other operations (like securitization etc) with non-fungible tokens

Special effort was made to develop a full-fledged standard of tokens to enable creation of any kind of token, whether it is artwork, certificate, voting mandate, ticket to an event, or … anything else. Some best practice advice is also provided

NIFI MARKETPLACE

NiFi marketplace is primarily developed as a web application for desktops and located at nifi.club, while it has a special solution for NFT tickets - NiFi Tickets debot

NiFi.club

For all operations with tokens nifi.club requires Extraton Chrome extension. Main features of NiFi marketplace:

- It allows following operations with tokens
  - Creation
  - Sale at fix price
  - Sale via auction
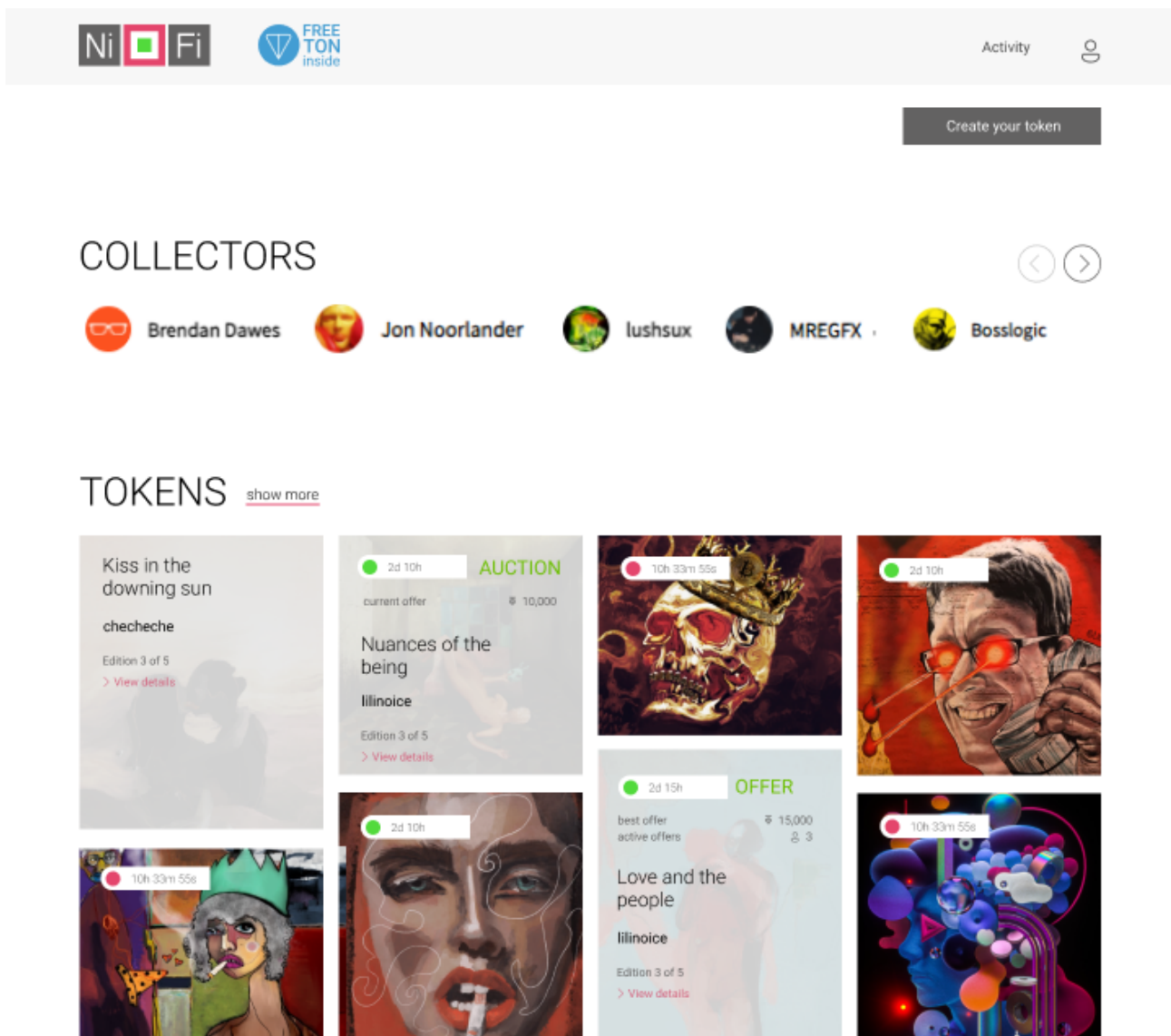
- Creators/owners have their accounts with personalization (avatar, nickname, description etc)
- User is automatically logged in once Extraton wallet is activated - no any other authorisation is required. Accounts are linked to specific wallet addresses
- All transactions with tokens require explicit confirmation with Extraton

- All transactions with tokens are made via respective token pages

TOKEN CREATION

- Creation of a token implies setting life-long Creator's fee

NiFi Tickets debot

NiFi Tickets debot was delivered in production by the end of April, 2021, and used for actual creation and distribution of tickets for the 1st Free TON Anniversary celebration event.

Currently NiFi Tickets debot allows to create a ticket token with any number of editions, and sell them at any specified fixed price in TONs. It shows information about event, the list of purchased tickets and produces the link for QR code - to be presented at the event for admission. It can also transfer tickets to other wallets. Additionally, the solution provides a very simple and efficient administrative backend to validate QR codes in real time using any phone with camera.
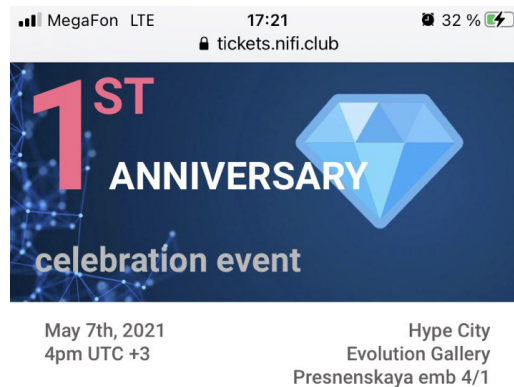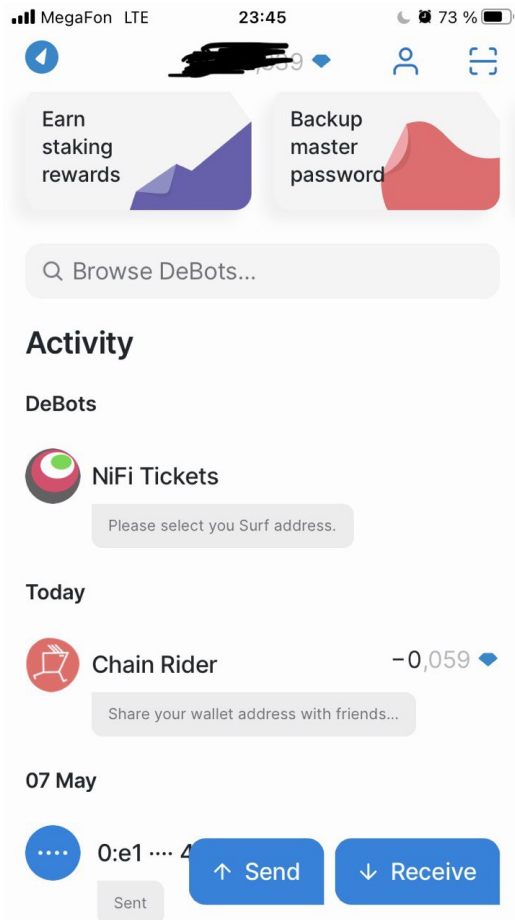
NIFI TOKEN STANDARD

NiFi team developed substantially its own new standard of non-fungible token for Free TON blockchain.The development aimed following goals:

- Universal structure of NFT suitable for tokens of essentially any nature
- Architecture that implies lowest possible blockchain fees
- Straightforward management logic of token
- Unification (across different types of NFTs) of ON-chain <> OFF-chain data correspondence standards
- '15 min development' approach for creation of new types of NF tokens
- Introduction of NFT types standardization through 'best practice' approach for cross-teams/platforms tokens compatibility.

https://github.com/kokkekpek/nifi-smart-contracts

Of course, TIP-3/TIP-31 served as a starting point of NiFi NFT standard development. But they have following differences:

Parameter	TIP-3/TIP-31	NiFi
Token nature	record in wallet SC	SC
Data storage	in wallet SC	in token SC
Managing instance	owner	owner, or manager

Some more details about NiFi standard:

- **Universal structure:** our NFT standard can be used for tokenization of any object. Its structure can be described as follows
    - Root Contract and Token Contract constitute particular type of NFT
    - Token Contract stores hash of JSON data file, which in its turn includes hashes of media files
    - Token Contract can store other (than just hash) data, if necessary
    - Root Contract will store transactions history of the token (to be developed)
- **Low fees:** NiFi structure implies that no metadata transfer is required once token is sold/transferred
- **Management logic:** by default token is being managed by Owner, but Owner might delegate - for limited time - management of the token to a Manager (eg auction contract)
- **ON-chain <> OFF-chain data correspondence:** usage of JSON hash in Token Contract makes verification of metadata/files simple and reliable
- **Quick start:** developed token standards (currently Art, Ticket and Random Tokens) allow very quick development of new types of NFT - the developer just uses inheritance to create new types of Token and Root contracts, specifying only new features of token
- **Cross-teams compatibility:** NiFi suggests to put token type in JSON as required descriptor, and every team shall make publicly available its detailed description. The descriptor itself shall consist of:
    - Name of the team
    - Type of the token
    - Version

Thus, for example, there can be a type like *nifi.art.5* - it's a token developed by NiFi team, representing some art token of version 5. Besides types, tokens can allow extensions.

All current NiFi developments will be commercialised and further upgraded.

NiFi.club

nifi.club will have following developments:

- nifi.club is deemed to be a hub for a variety of NFT types - in near future the platform will focus on three main types of tokens: artwork, tickets and voting mandates
- Unlike many platforms, NiFi will allow creation of tokens to anybody, but to attract high-quality products, it will introduce *positive* moderation, offering qualified tokens wider exposure/marketing options

NiFi Tickets debot

NiFi Tickets debot will be upgraded to allow:

- Multiple event planning
- Usage of complicated tickets and pricing matrix.

CONTACTS

Alexander Zvezdin
T: @azvezdin
FT: keeno
W: 0:7d28795845160c7322eb9e9ea9b88c700d42bad744148b15f80978f85c47cbdd
K: 57cdc263ac751a8eecbdeb773932526afea1c7e642f3da866c22f712d258d969