



OST

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Challenge Task

Beerstamp NFT

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Blockchain

Agenda

- Goal & Idea
- Software Design
- Architecture
- Implementation
- Fulfillment of requirements

Goal & Idea

Goal:

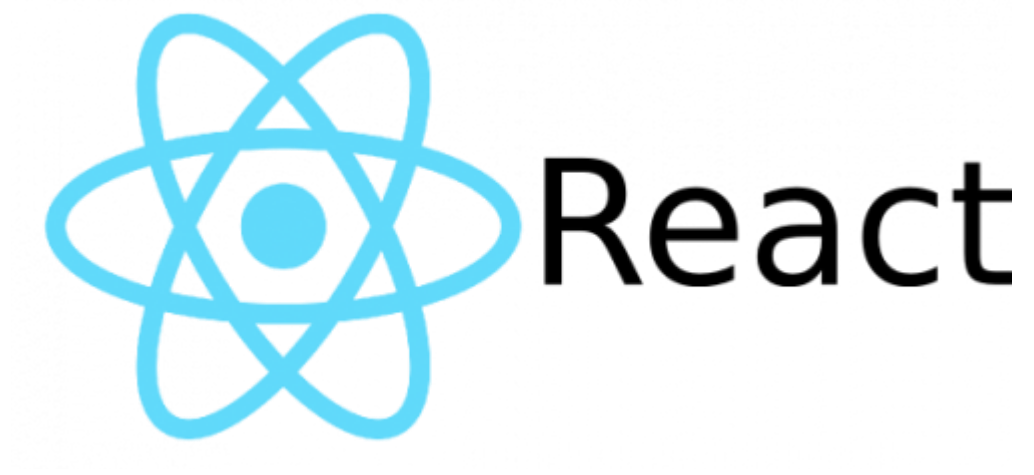
Design and implementation an application including NFTs.

Our Idea:

Create a stamp card for bought beers. Each stamp represents a NFT token in a blockchain. After gathering 10 tokens they can be redeemed for a free beer.

Software Design

- Frontend
 - React SPA
- Deployable with docker



Architecture & Components

- Redux Store
 - Web3, Contract, Wallet
- Smart Contract
 - Deployed with Remix

Web³



Implementation

- Web3
 - Connects to the provider in your browser (e.g. Metamask)
- Contract
 - Uses the contract address and the Application Binary Interface (ABI)
 - Connect to the deployed contract
- Wallet
 - Account (address)
 - Balance (BSTNFT)

Contract

- Everyone can mint a token
- Burn function to destroy token
- BurnAll function to destroy a list of tokens with one function call
- Interfaces
 - IERC721, IERC721Metadata

Fulfillment of requirements

- ✓ A working prototype for your use-case
- ✓ Use latest stable releases of chosen libraries and frameworks
- ✓ An NFT stored on a public blockchain (can be testnet)
- ✓ Transfer of an NFT triggered directly or indirectly via the frontend/backend (can be testnet)

Questions?

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