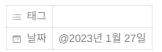
day85-sol-tokenproject2



스마트 컨트렉트

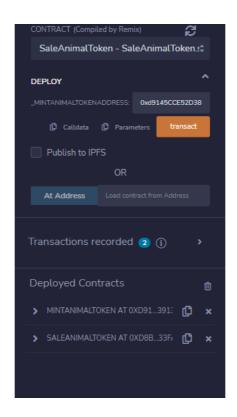
NFT 발행

판매 구매

SaleAnimalToken.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.7;
import "MintAnimalToken.sol":
contract SaleAnimalToken{
    MintAnimalToken public mintAnimalTokenAddress;
     \verb|constructor(address _mintAnimalTokenAddress)|| \\
         \verb|mintAnimalTokenAddress| = \verb|MintAnimalToken(_mintAnimalTokenAddress)|; \\
    mapping(uint256=>uint256) public animalTokenPrices;
     uint256[] public onSaleAnimalTokenArray;
     function \ setForSaleAnimalToken(uint256 \ \_animalTokenId, \ uint256 \ \_price) \ public \{ animalTokenId, \ uint256 \ \_price \} \} \\
         address animalTokenOwner = mintAnimalTokenAddress.ownerOf( animalTokenId):
         //토큰 주인이 현재 메타마스크 sign 하는 사람하고 같으면 통과
         require(animalTokenOwner == msg.sender, "Caller is not animal token owner.");
         require(_price > 0, "Price is zero or lower.");
require(animalTokenPrices[_animalTokenId] == 0, "This animal token is already on sale.");
         require (\texttt{mintAnimalTokenAddress.isApprovedForAll} (\texttt{animalTokenOwner}, \ \texttt{address} (\texttt{this})), \ "\texttt{Animal token owner} \ \texttt{did} \ \texttt{not} \ \texttt{approve} \ \texttt{token."})
         animalTokenPrices[_animalTokenId] = _price;
         on Sale A nimal Token Array.push (\_animal Token Id);\\
     function \ puschase Animal Token (uint 256 \_animal Token Id) \ public \ payable \{
         uint256 price = animalTokenPrices[_animalTokenId];
         address animalTokenOwner = mintAnimalTokenAddress.ownerOf(_animalTokenId);
         require(price > 0, "Animal token not sale.");
         require(price <= msg.value , "Caller sent lower than price.");</pre>
         require(animalTokenOwner != msg.sender , "Caller is animal token owner.");
         payable(animalTokenOwner).transfer(msg.value);
         mintAnimalTokenAddress.safeTransferFrom(animalTokenOwner, msg.sender, _animalTokenId);
         animalTokenPrices[_animalTokenId] = 0;
         for(uint256 \ i = 0; \ i < onSaleAnimalTokenArray.length; \ i++)\{
              if(animalTokenPrices[onSaleAnimalTokenArray[i]] == 0) {
    onSaleAnimalTokenArray[i] = onSaleAnimalTokenArray[onSaleAnimalTokenArray.length - 1];
                  onSaleAnimalTokenArray.pop();
     function getOnSaleAnimalTokenArrayLength() view public returns (uint256) {
         return onSaleAnimalTokenArray.length;
```

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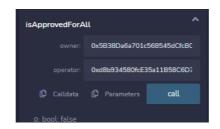
토큰 발행



발행확인



sale 컨트렉트 복사



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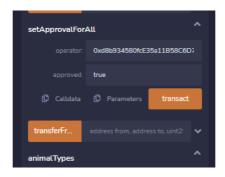
3

승인 확인

owner:



operate: sale 컨트렉트



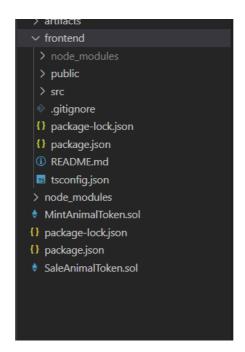
sale 컨트렉트를 true로 승인

• git clone https://github.com/h662/web3-boilerplate

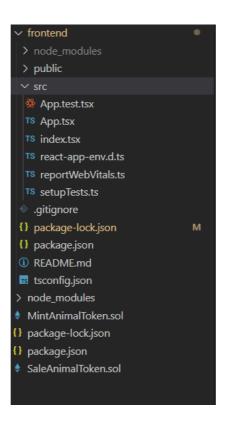
명령어로 설치



폴더명을 frontend로 변경



- · cd frontend
- · npm install



설치 완료

```
at C:\Blockchain\contracts\frontend\node_modules\babel-loader\lib\index.js:51:103 {
  opensslErrorStack: [ 'error:03000086:digital envelope routines::initialization error' ],
  library: 'digital envelope routines',
  reason: 'unsupported',
  code: 'ERR_OSSL_EVP_UNSUPPORTED'
}
```

노드 버전 에러

16버전 설치 이후

node -v 로 버전 확인

npm install

npm start



web3-boilerplate

구글 chakra ui 검색 install 부분 카피

• npm i @chakra-ui/react @emotion/react@^11 @emotion/styled@^11 framer-motion@^5 —force

차크라유아이 설치

src/index.tsx

```
import React from "react";
import ReactDOM from "react-dom";
import { ChakraProvider } from '@chakra-ui/react'
import App from "./App";
import reportWebVitals from "./reportWebVitals";
ReactDOM.render(
  <React.StrictMode>
   <ChakraProvider>
       <App />
   </ChakraProvider>
 </React.StrictMode>,
 document.getElementById("root")
// If you want to start measuring performance in your app, pass a function
// \ \ to \ log \ results \ (for \ example: \ reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
reportWebVitals();
```

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```
EXPLORER
                                      MintAnimalToken.sol
                                                              TS index.tsx M X
CONTRACTS
> artifacts
                                        import ReactDOM from "react-dom";
import { ChakraProvider } from '@chakra-ui/react'

√ frontend

 > public
 ∨ src
                                        6 import reportWebVitals from "./reportWebVitals";
  App.test.tsx
 TS App.tsx
                                        8 ReactDOM.render(
                                       10
 TS react-app-env.d.ts
  TS reportWebVitals.ts
 TS setupTests.ts
                                               </React.StrictMode>,
  .gitignore
                                               document.getElementById("root")
{} package-lock.json
 {} package.json

    README.md

tsconfig.json
                                            reportWebVitals();
MintAnimalToken.sol
{} package-lock.json
```

App.tsx

```
frontend > src > TS App.tsx > ...
    import React, { FC } from "react";
    import {Button} from "@chakra-ui/react";
    const App: FC = () => {
        return <Button>web3-boilerplate</Button>;
    };
    export default App;
    export default App;
}
```

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