day84-sol-tokenproject



• npx create-react-app tokenproject

리믹스

MintAnimalToken.sol 파일 생성

기본세팅

```
// SPDX-License-Identifier: MIT pragma solidity ^0.8.7; import "@openzeppelin/contracts/token/ERC721/extensions/ERC721Enumerable.sol";
```

SaleAinalToken.sol

```
S C:WBlockchain> mkdir contracts
디렉터리: C:#Blockchain

Mode LastWriteTime Length Name
---- 2023-01-26 오전 11:40 contracts
PS C:#Blockchain> cd contracts
```

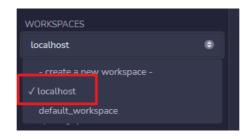
- npm i @openzeppelin/contracts
- code.

remix 설치

• npm install -g @remix-project/remixd

remix 접속

• remixd -s . --remix-ide https://remix.ethereum.org



로컬호스트로 연결

```
FILE EXPLORER

WORKSPACES

localhost

Image: Import "@openzeppelin/contracts/token/ERC721/extensions/ERC721Enumerable.sol";

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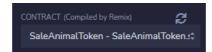
Import "@openzeppelin/contracts/token/ERC721/extensions/ERC721Enume
```

SaleAnimalToken.sol파일 생성

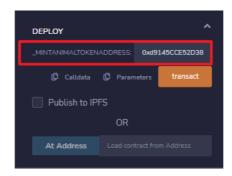
SaleAnimalToken.sol

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.7;
import "MintAnimalToken.sol";
contract SaleAnimalToken{
     MintAnimalToken public mintAnimalTokenAddress;
     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 \} \} 
          //토큰 주인
          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(mintAnimalTokenAddress.isApprovedForAll(animalTokenOwner, address(this)), "Animal token owner did not approve token.")
          animalTokenPrices[_animalTokenId] = _price;
           onSaleAnimalTokenArray.push(_animalTokenId);
     }
}
```

MintAnimalToken.sol을 deploy

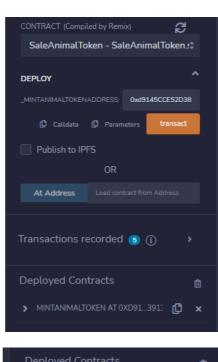


컨트랙트 변경



MintAnimal 의 컨트랙트 주소를 넣기 이후 transact

연결 끝!



> MINTANIMALTOKEN AT 0XD91...391: (1) ×
> SALEANIMALTOKEN AT 0XD8B...33F/ (1) ×



카피 붙혀 넣기



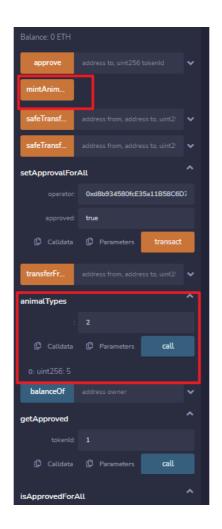
카피 위에 붙혀넣기



sale 컨트렉트를 붙혀 넣고 true 로 승인해줘야한다.

해줘도 에러가 난다.





민팅으로 발행하여 실행하니 잘 해결 되었다.