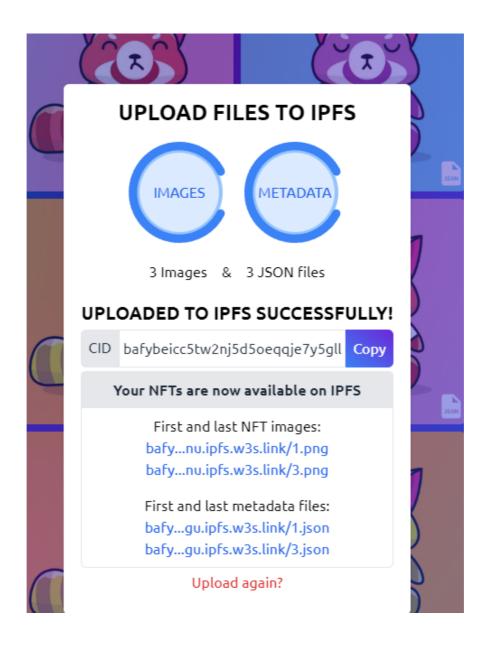
day31-nft

| ∷ 태그 | |
|------|----------------|
| ■ 날짜 | @2022년 11월 15일 |

https://www.genfty.com/: nft 발행

로그인 후 make nft를 누른다. \rightarrow 갯수가 많으면 비용이 드니 generate을 3으로 설정 후 nft 발행을 진행 한다.



```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.9;
import "@openzeppelin/contracts/token/ERC721/ERC721.sol";
import "@openzeppelin/contracts/token/ERC721/extensions/ERC721Enumerable.sol";
import "@openzeppelin/contracts/token/ERC721/extensions/ERC721URIStorage.sol";
import "@openzeppelin/contracts/access/Ownable.sol";
import "@openzeppelin/contracts/utils/Counters.sol";
contract MyToken is ERC721, ERC721Enumerable, ERC721URIStorage, Ownable {
    using Counters for Counters.Counter;
    Counters.Counter private _tokenIdCounter;
    constructor() ERC721("MyToken", "MTK") {}
    function safeMint(address to, string memory uri) public onlyOwner {
       uint256 tokenId = _tokenIdCounter.current();
       _tokenIdCounter.increment();
       _safeMint(to, tokenId);
        _setTokenURI(tokenId, uri);
    }
    // The following functions are overrides required by Solidity.
    function _beforeTokenTransfer(address from, address to, uint256 tokenId, uint256 batchSize)
        internal
        override(ERC721, ERC721Enumerable)
        super._beforeTokenTransfer(from, to, tokenId, batchSize);
    }
    function _burn(uint256 tokenId) internal override(ERC721, ERC721URIStorage) {
        super._burn(tokenId);
    function tokenURI(uint256 tokenId)
        public
        override(ERC721, ERC721URIStorage)
        returns (string memory)
    {
        return super.tokenURI(tokenId);
    }
    function supportsInterface(bytes4 interfaceId)
        public
        view
        override(ERC721, ERC721Enumerable)
        returns (bool)
        return super.supportsInterface(interfaceId);
}
```

Remix IDE 접속 - > 위에 코드 복사 붙혀 넣기 → Compile NFT.sol 누르기 → 5번째 버튼에서 Injected provider - metamask 선택 → CONTRACT(MYtoken)

```
pragma solidity ^0.8.9;
ENVIRONMENT 🛡
  Injected Provider - MetaMask
                                                    import "@openzeppelin/contracts/token/ERC721/ERC
                                                    import "@openzeppelin/contracts/token/ERC721/ext
 Goerli (5) network
                                                    import "@openzeppelin/contracts/token/ERC721/ext
ACCOUNT 3
                                                    import "@openzeppelin/contracts/access/Ownable.s
                                                    import "@openzeppelin/contracts/utils/Counters.s
  0xBa5...1f95C (0.385131603 $ 🗓 📝
                                              10
                                                    contract MyToken is ERC721, ERC721Enumerable, ER
                                                        using Counters for Counters.Counter;
 3000000
                                                        Counters.Counter private tokenIdCounter;
                      Wei
                                                        constructor() ERC721("Myhong", "NFT") {}
                                                        function safeMint(address to, string memory
                                                            uint256 tokenId = _tokenIdCounter.curren
  MyToken - contracts/NFT.sol
                                                            _tokenIdCounter.increment();
                                                            _safeMint(to, tokenId);
                                                            _setTokenURI(tokenId, uri);
   Deploy
 Publish to IPFS
                                                        // The following functions are overrides req
                                                        function _beforeTokenTransfer(address from,
   At Address
                                                            internal
                                                            override(ERC721, ERC721Enumerable)
Transactions recorded 6 (i)
                                                            super._beforeTokenTransfer(from, to, tokentransfer)
                                                        function _burn(uint256 tokenId) internal ove
Deployed Contracts
                                                            super._burn(tokenId);
      Currently you have no contract
                                                        function tokenURI(uint256 tokenId)
        instances to interact with.
                                            O listen on all transactions
                                                                                 Q Search with transact
                                              creation of MyToken errored: MetaMask Tx Signature: User denied transa
```

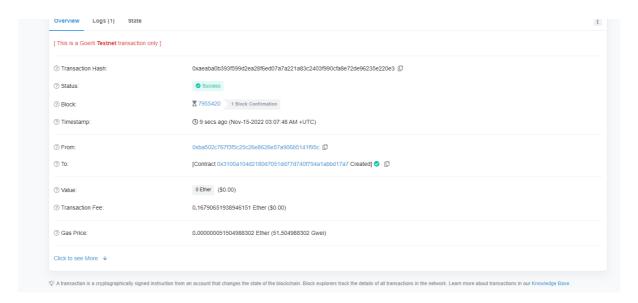
metadata file 주소

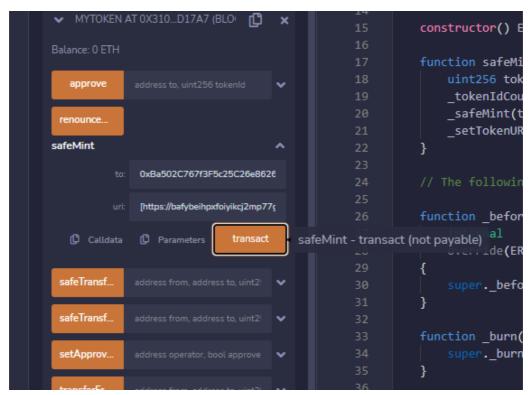
https://bafybeicc5tw2nj5d5oeqqje7y5gllk2k3raf363yekggqtw6rxi5oewlgu.ipfs.w3s.link/1.json https://bafybeicc5tw2nj5d5oeqqje7y5gllk2k3raf363yekggqtw6rxi5oewlgu.ipfs.w3s.link/3.json

NFT주소

https://bafybeihpxfoiyikcj2mp77gzyxtvb3hyqaqc4lakbyd6v745fqqwcdghnu.ipfs.w3s.link/1.png

https://bafybeihpxfoiyikcj2mp77gzyxtvb3hyqaqc4lakbyd6v745fqqwcdghnu.ipfs.w3s.link/3.png





to - 내 메타 마스크 주소

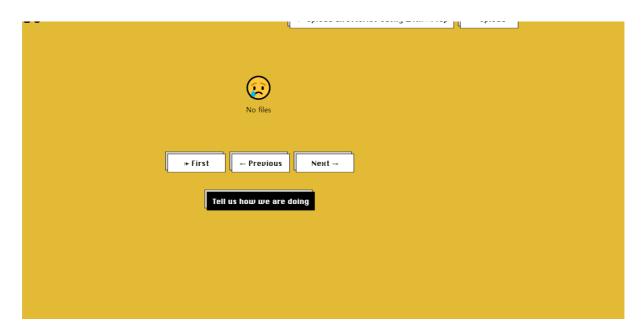
url - 아까 발급한 nft 사진 json 주소

https://testnets.opensea.io/assets/goerli/0x3100a104d2180d7051dd77d740f794a1abbd17a7/0 opensea testnet에 접속해서 확인

주소 제대로 안넣으면 사진이 안뜬다.

잘 확인할것

https://nft.storage/files/:



node서버 + 리액트 클라이언트 연결

clientServer 폴더 생성

npx create-react-app client

명령어 입력 : yarn add nodemon --dev