Centurion UNIVERSITY Shapage Tins Empowering Communities	School: Campus:
	Academic Year: Subject Name: Subject Code:
	Semester: Program: Branch: Specialization:
	Date:
	Applied and Action Learning (Learning by Doing and Discovery)

Name of the Experiement: Mint it Yourself – NFT Creation and Deployment

# \* Coding Phase: Pseudo Code / Flow Chart / Algorithm

Algor	ithm:
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- 1. Upload the image to Pinata and copy the generated IPFS link.
- 2. Create a metadata JSON file, include the image link inside it, then upload the file to Pinata and copy the metadata IPFS link.
- 3. Write and deploy an NFT smart contract on a blockchain (e.g., Ethereum Sepolia Testnet).
- 4. Mint the NFT by calling the mint function with:
- 5. Your wallet address
- 6. The metadata IPFS URI
- 7. Open MetaMask and check the **NFTs** section to confirm the NFT.

# \* Softwares used

- 2.MetaMask
- 3.Remix IDE
- 4. Ethereum Test Network (Sepolia)

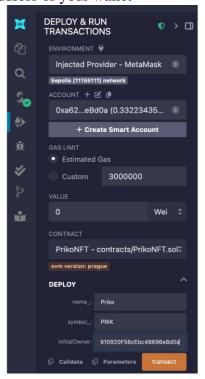
#### \* Implementation Phase: Final Output (no error)

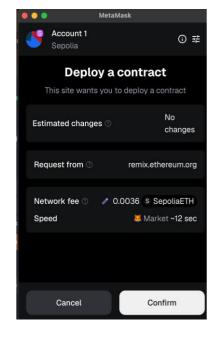
First go to your pinata account and upload your image/logo of NFT and then write a metadata of your NFT in json file and also add the json file to pinata account X **FILE UPLOAD FILE UPLOAD** Confirm file name Confirm file name Priko.png nft\_metadata.json Privacy Settings Privacy Settings Public Public (+) Advanced Settings (+) Advanced Settings Upload Cancel Upload G 422 B nft metadata.ison bafkr...2hc5u 8/25/2025 C Priko.png bafkr...6b3ia 🔓 85.31 KB 8/25/2025 ame": "Priko", escription": "My digital picture", mage": "https://pink-junior-landfowl-354.mypinata.cloud/ipfs/bafkreig54ixi4eonagy6s324ywp5iubuyrlqjtpgwuv37nbkpraza6b3ia", ttributes": [ "trait\_type": "Creator", "value": "Priko" "trait\_type": "Category",
"value": "Personal" "trait\_type": "Type",
"value": "Digital Picture" After uploading the logo and .json file in remix IDE write your Smart contract for NFT creation. pragma solidity ^0.8.24; contract PrikoNFT is ERC721URIStorage, Ownable {

```
Ownable(initialOwner)
          function mintTo(address to, string memory metadataURI) external onlyOwner returns (uint256) { 🔹 🔊 infinite gas
20
21
22
23
24
              _safeMint(to, tokenId);
              _setTokenURI(tokenId, metadataURI);
               return _nextId;
```

# \* Implementation Phase: Final Output (no error)

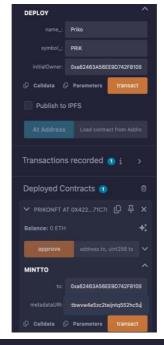
After compile the .sol file then deploy the smart contract in deploy section give name of the token and Symbl and the address of your wallet







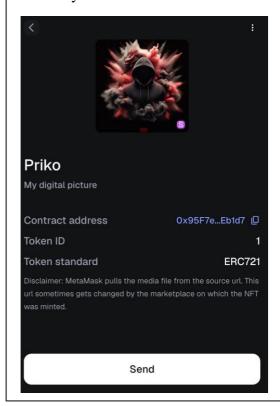
After Deployment then in MINT To section give your wallet address and metadata URI



view on Etherscan view on Blockscout

[block:9062125 txIndex:21] from: 0xa62...ebd0a to: PrikoNFT.mintTo(address, string) 0x422...71c78 value: 0 wei data: 0x007...000000 logs: 2 hash: 0x0e5...1d48b

After this you can see the NFT is successfully added to the meta maskwallet



#### \* Observations

The NFT image and metadata were uploaded to IPFS via Pinata, ensuring decentralized storage. A smart contract was then deployed on the Sepolia Testnet using Remix and MetaMask. During the minting process, the NFT was successfully linked to the specified wallet address through the IPFS metadata URI. Finally, the NFT appeared in MetaMask, confirming its successful creation and deployment.

#### **ASSESSMENT**

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Regn. No.:

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