Centurion	School: Campus:
	Academic Year: Subject Name: Subject Code:
UNIVERSITY Shaping Lives Empowering Communities	Semester:
	Date: Applied and Action Learning (Learning by Doing and Discovery)

Name of the Experiement : Mint it Yourself – NFT Creation and Deployment **Objective/Aim:**

- Understand ERC-721 (NFT) concepts: token ID, metadata, tokenURI, owner, transfer.
- Create NFT metadata (JSON + image) and pin to IPFS.
- Deploy an ERC-721 contract on Sepolia.
- Mint NFTs (owner mint via script + user mint via a minimal web dApp).

Apparatus/Software Used:

- MetaMask
- Etherscan (https://goerli.etherscan.io/) for Ethereum testnets.

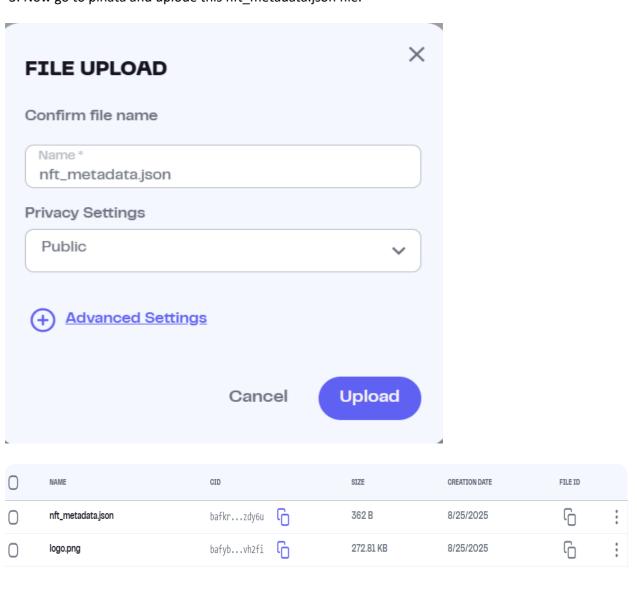
Procedure:

First open pinata and uplode a photo and copy the url of the photo.				
	FILE UPLOAD		×	
	Confirm file name			
	Name * logo.png			
	Privacy Settings			
	Public		~	
	+ Advanced Settings			
		Cancel	Upload	

Procedure:

2. Then go to vs code and write code in nft metadata. json file and past the copied url of the photo.

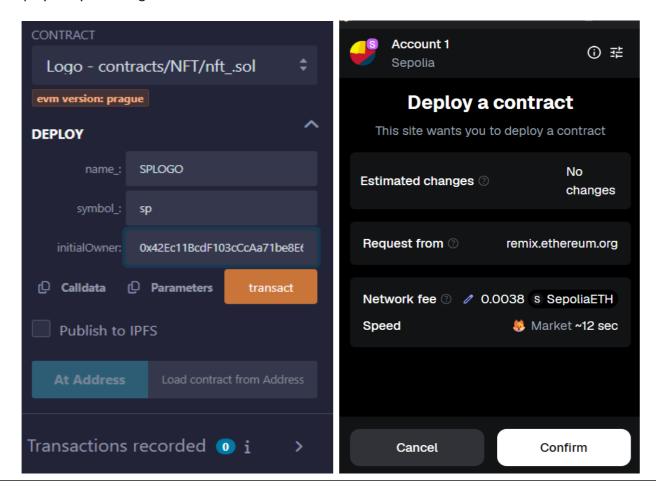
3. Now go to pinata and uplode this nft_metadata.json file.



Procedure:

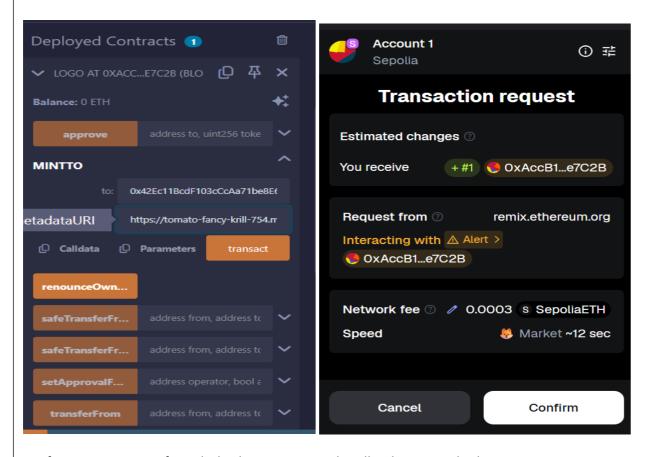
4. After uploding file go to remix and write smart contact for creating Nft and deploye the smart contract.

5. After compailation go to the deploye section and give the sring name, symbol and initial owner (wallet address) and deploye it by cofirming transaction on MetaMask.

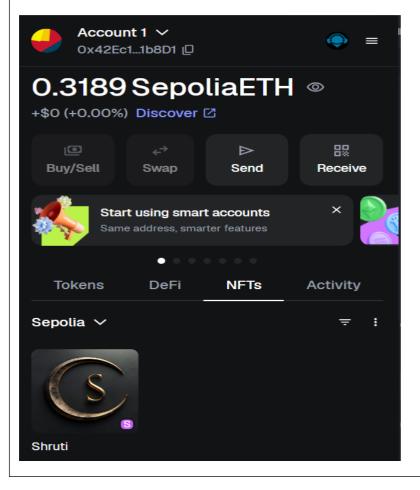


Procedure:

6. Now go to the deployed contract and in the this contract section there is MINTTO button , here in this button gibe the wallet address and metadataURI and mint it.



7. After transaction confirmed, check your MetaMask wallet the NFT is display.



- The wallet connected to Sepolia with test ETH.
- Image and metadata were uploaded to IPFS successfully.
- The contract deployed without errors and minted Token ID 1.
- tokenURI returned the correct IPFS link showing the NFT metadata.
- Public mint worked and the NFT was visible on the block explorer and wallet.

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	f the Student:
--------------	----------------

Name:

Signature of the Faculty:

Regn. No. : Page No.....

*As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.