	School: Campus:			
	Academic Year: Subject Name: .		Subject Code:	
Centurion UNIVERSITY Shaping Lives Empowering Communities	Semester: Program:	Branch:	Specialization:	
	Date:			

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiement: Store with IPFS – Decentralized File Upload

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

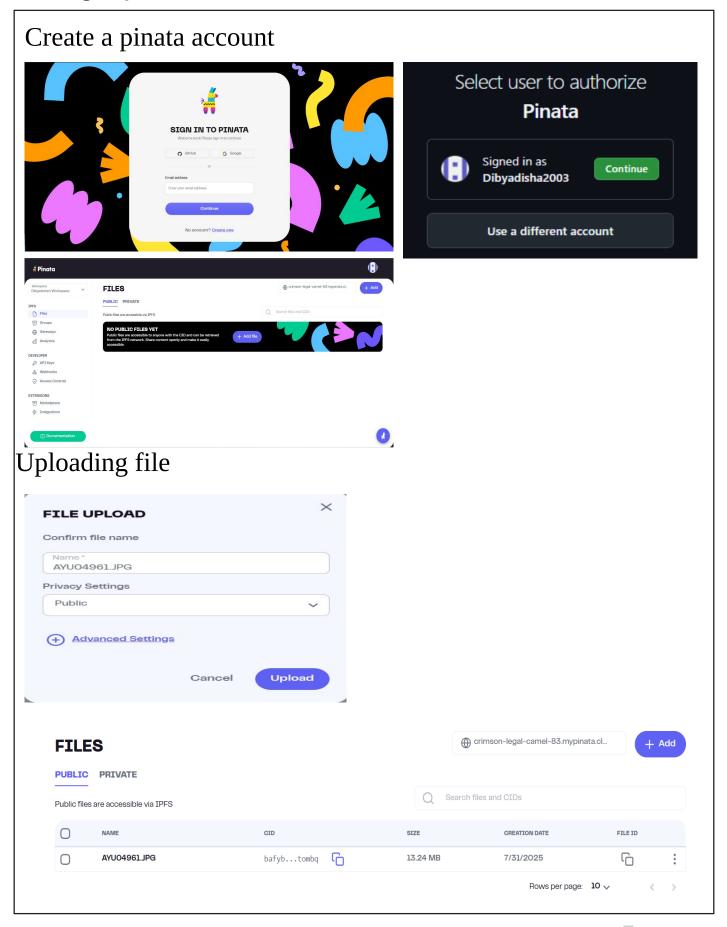
Algorithm:

- 1.Start
- 2.Create an account in pinata or you can use infura,
- 3. After creating upload one file in either public or private,
- 4. After uploading you will get a cid.
- 5. Now create a key in pinata which will give you an api key, secret api key and jwt token copy all of them and save it somewhere.
- 5.Now create a folder in your c drive.
- 6. Open that same file in your vs code.
- 7.Create a .env file in that very same folder.
- 8. Write the api key, secret key and jwt token copied in step 5 in the .env file.
- 9. Create a file named as addFile.js and write code on it.
- 10. Now create a file named sample.txt on that folder.
- 11. After creating the above files run the code in the terminal.
- 12.It will give a hash copy that link
- 13. Open a new tab in the browser and paste the link it will open the uploaded file.
- 14.End

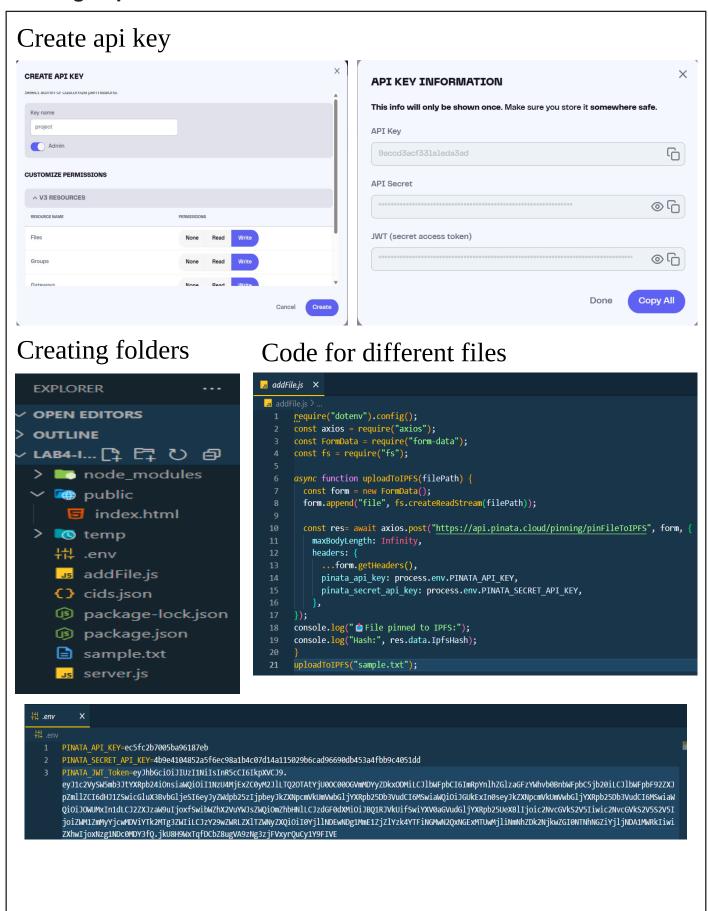
*Software Used:

- 1. Pinata account
- 2. Command Prompt
- 3. Brave Browser
- 4. VS Code

*Testing/Implementation Phase:



*Testing/Implementation Phase:



* Implementation Phase: Final Output (no error)

Run some commands in the terminal to get the hash

- PS C:\Web3 Projects\lab4-ipfs-basic\temp> cd "C:\Web3 Projects\lab4-ipfs-basic"
- PS C:\Web3 Projects\lab4-ipfs-basic> node addFile.js

#File pinned to IPFS:

Hash: QmeBzCRkoepM4doG8TayTa6cZw9PCtCJrGDJBpvdaMpLw7

PS C:\Web3 Projects\lab4-ipfs-basic>

Uploaded file will be shown after copying the link and opening it in a new tab in the browser

This is a demo IPFS project

*Observation:

- 1.Implemented a decentralized file upload system using IPFS and Pinata.
- 2.Enabled multiple file uploads with preview thumbnails and live IPFS links.
- 3.Displayed already uploaded files using Pinata's API for better file management.

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.:

Page No.....