Centurion University	School:	Campus:		
	Academic Year: Subject Name:	Subject Code:		
	Semester: Program: Bran	nch: Specialization:		
	Date:			
	Applied and Action Learning (Learning by Doing and Discovery)			

Name of the Experiement: Store with IPFS – Decentralized file upload.

Objective/Aim:

• The primary objective of this project is to demonstrate and implement a decentralized file upload system using IPFS (InterPlanetary File System) via the Pinata service. This allows users to upload files to a distributed network, promoting data persistence and censorship resistance, rather than relying on a centralized server.

Apparatus/Software Used:

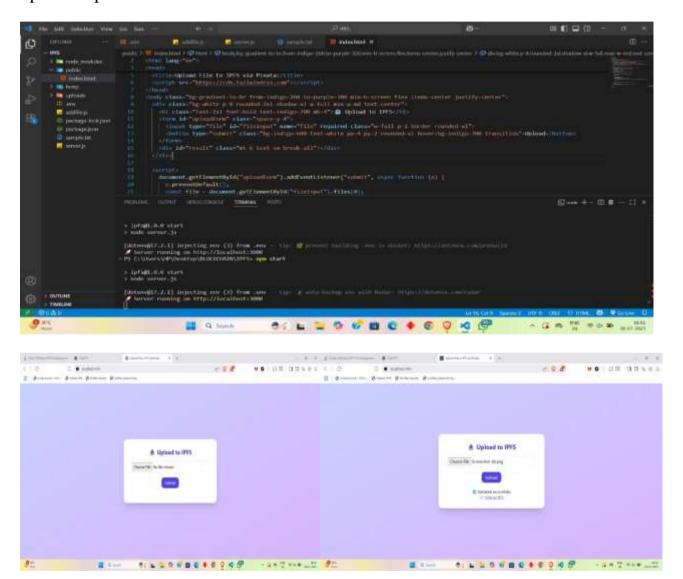
- Laptop/PC
- PowerPoint/Word for documentation
- Internet for research
- https://pinata.cloud/

Theory/Concept:

- IPFS: A peer-to-peer protocol for content-addressed, distributed file storage, offering decentralization, data integrity, and resilience against single points of failure.
- Pinata: A service that ensures persistent availability of IPFS-uploaded content by continuously "pinning" it on their infrastructure.
- Decentralization: Data is distributed across multiple nodes, enhancing reliability and resistance to censorship.

Procedure:

- 1. Access App: Navigate to the web application (e.g., localhost:3000).
- 2. Select File: Choose a file to upload using the "Choose File" button.
- 3. Upload: Click the "Upload" button.
- 4. Confirmation: The system displays "Uploaded successfully!" and a "View on IPFS" link upon completion.



Observation 7	Γable:		
Test File Name	File Type	IPFS Hash (CID)	Status
test.png	Image	QmXyz	Uploaded \square
project.pdf	PDF	Qm123	Uploaded \square
network.docx	DOCX	Qm456	Uploaded \square

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		_

Sig	ına	tur	e of	the	Stu	dent:

Signature of the Faculty:

Name : Regn.No.