Centurion University
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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 : Store with IPFS – Decentralized File Upload

Objective/Aim:

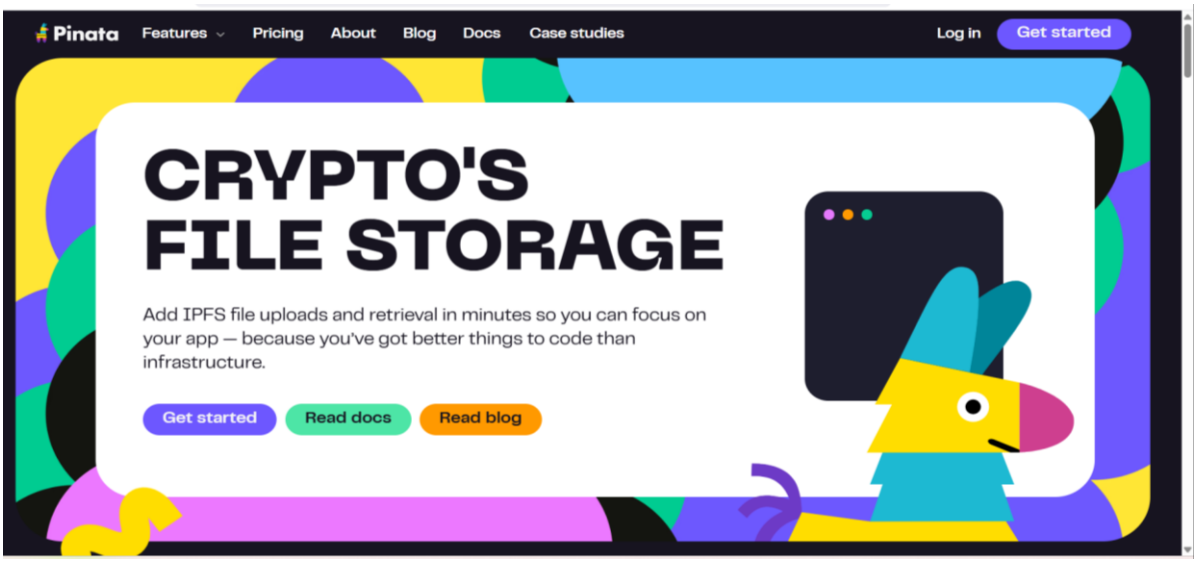
1. Upload a file to a decentralized storage network (IPFS).
2. Get the file's CID and access it via a public gateway URL.
3. Understand pinning, gateways, and basic privacy considerations.

Apparatus/Software Used:

- Brave
- Pinata
- VS code

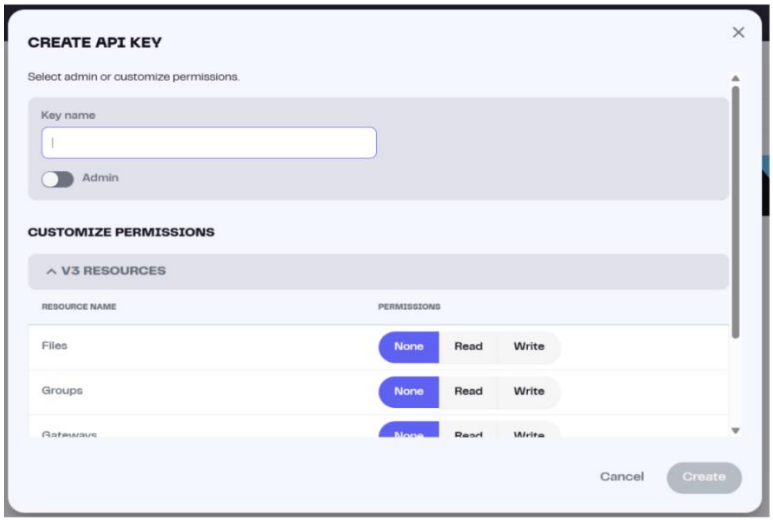
Procedure:

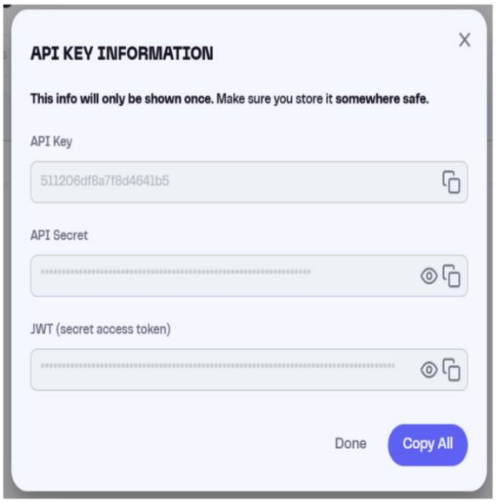
1. Open Brave and search Pinata website and open it then Login to pinata.



Procedure:

2. After login go to the API section and click on new to generate an API key.
3. After generating the API key copy the key and paste it for later user.

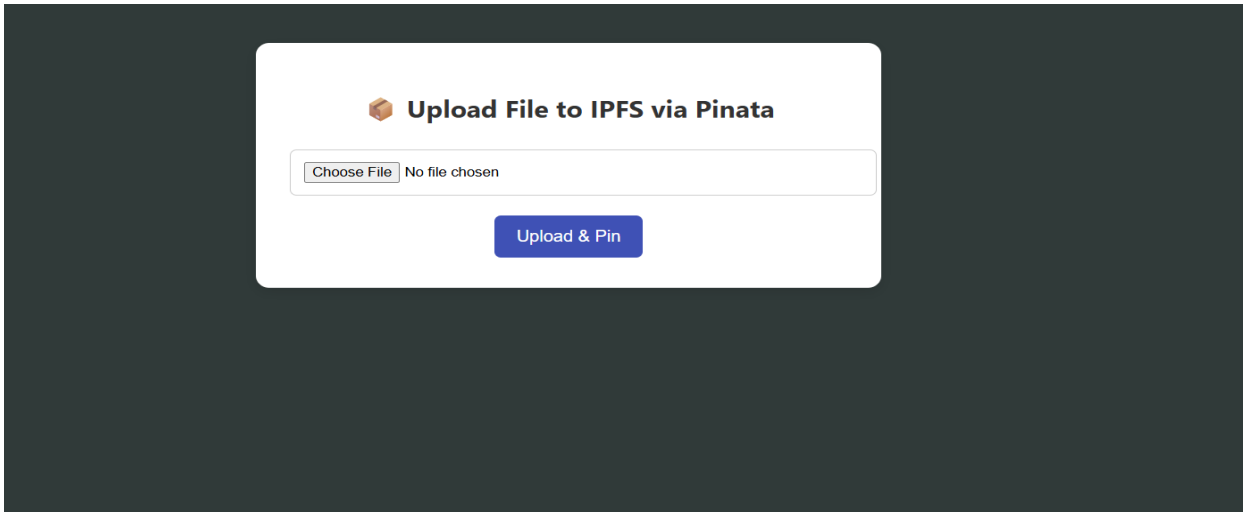




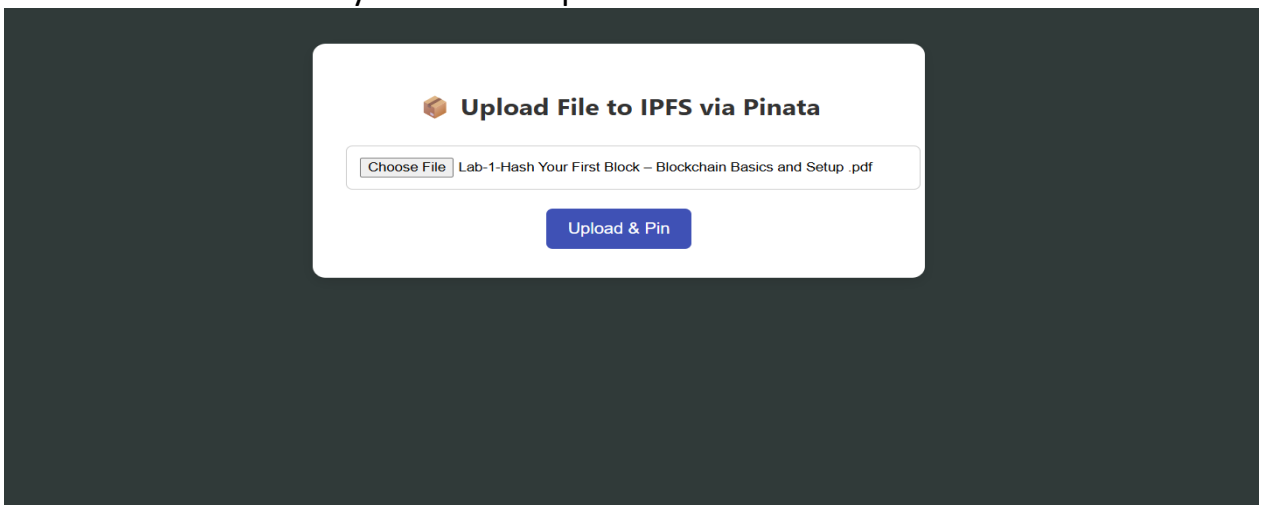
4. Now create a folder and open it on VS code then in the App.js folder write the code for frontend and create anoter file named as .env ,in this file paste the API key.

Procedure:

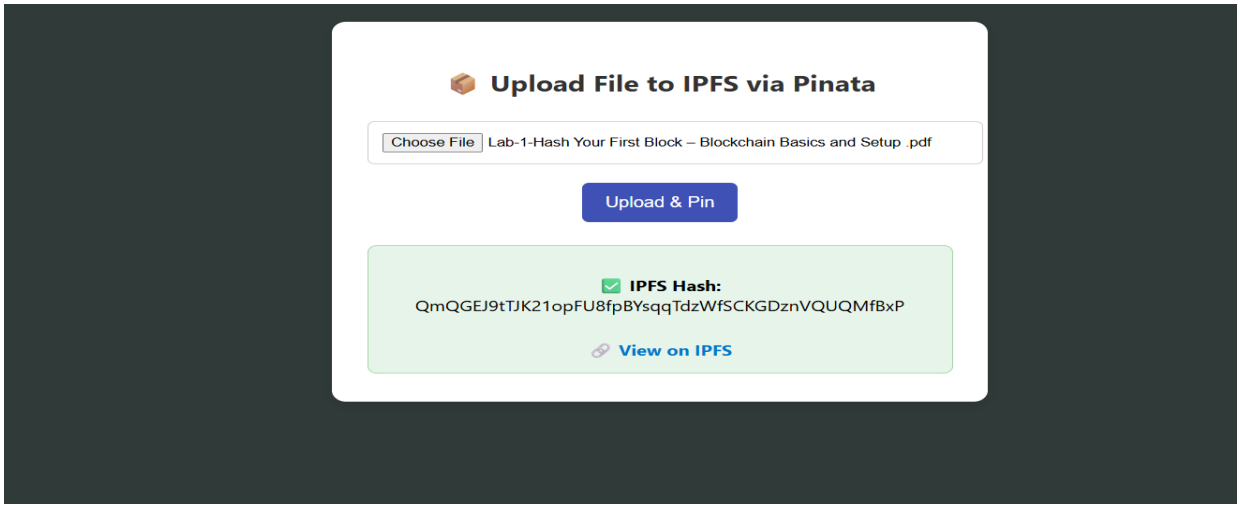
5.Now go to the terminal and write “npm start” to run the code. After running the code the output will be show like this.



6. Now choose the file you want to upload .



7.After choosing the file file click on the “Uplode & Pin” button .



Observation : Applied and Action Learning

In the *Store with IPFS – Decentralized File Upload* lab, I was able to successfully select a file from my system, upload it to the IPFS network, and receive a unique IPFS hash.

ASSESSMENT

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

Signature of the Student:

Name :

Signature of the Faculty:

Regn. No. :

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