Centurion University Shaping Lives	School: Campus:					
	Academic Year:					
	Semester:					
	Date:					
	Applied and Action Learning (Learning by Doing and Discovery)					

Name of the Experiement: Web2 vs Web3 – Debate and Redesign

Objective/Aim:

To study and analyze the differences, advantages, and disadvantages between Web2 and Web3, while exploring the evolution and transformation of the internet over time.

Apparatus/Software Used:

- Laptop/PC
- Word for documentation
- Brave browser for research

Theory/Concept:

Web2: "Read + Write"

- **Timeline:** 2004 Present
- **Definition:** The current era of the internet, where users can both consume and create content.
- Core Features:
 - User-generated content thrives on centralized platforms such as Facebook, YouTube, Instagram.
 - o Companies **own and control user data**, deciding how it's stored, shared, and monetized.
 - o Widely accessible, highly stable, and easy to use.

Web3: "Read + Write + Own"

- **Timeline:** 2014 Future
- **Definition:** The next generation of the internet, powered by **blockchain technology** and designed for decentralization.
- Core Features:
 - Users **own their data** and digital assets directly.
 - o Utilizes smart contracts, NFTs, and crypto wallets to enable trustless interactions.
 - o Operates on decentralized networks like **Ethereum**, **IPFS**, and other blockchain-based systems.
 - Resistant to censorship and middleman control.

Procedure:

- 1. Gather information about Web2 and Web3 from reliable sources such as research papers, articles, and case studies
- 2. Study the timeline and key technological changes that led from Web2 to Web3.
- 3. Identify the features, advantages, and limitations of both Web2 and Web3.
- 4. Compare the two generations in terms of ownership, data privacy, security, censorship resistance, and complexity.
- 5. Analyze real-world examples of Web2 platforms (e.g., Facebook, YouTube) and Web3 platforms (e.g., Ethereum, IPFS).
- 6. Summarize findings to highlight how the internet is evolving and what challenges or opportunities Web3 presents.

Observation Table:

Parameter	Web2	Web3
Ownership	Centralized – controlled by companies	Decentralized – controlled by users
Data Privacy	Companies store and monetize user data	Users own and manage their own data
Security	Vulnerable to hacks via centralized servers	Blockchain-based cryptography for security
Censorship	Platforms can remove or block content	Resistant to censorship
Complexity	Easy to use	Steeper learning curve
Examples	Facebook, YouTube, Instagram	Ethereum, IPFS, Polkadot
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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. :

Signature of the Faculty: