

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

**Objective/Aim :**

To compare and critically debate the features of **Web2** and **Web3**, analyze their pros and cons, and propose a redesigned model that combines the strengths of both systems.

**Apparatus/Software Used**:

* Laptop/PC
* MS Word / PowerPoint for documentation.
* Internet connection for research.
* Communication tool .

**Theory/Concept:**

1. **Web2**: The second generation of the internet, focusing on interactivity, user-generated content, and centralized control. Examples: Facebook, YouTube, Twitter.
2. **Web3**: The decentralized internet based on blockchain, aiming to give users ownership of their data, enable peer-to-peer interactions, and reduce reliance on intermediaries. Examples: Ethereum, IPFS, Uniswap.
3. **Debate Focus**: Evaluate how **centralization (Web2)** and **decentralization (Web3)** affect scalability, user experience, security, and innovation.
4. **Redesign Focus**: Create a hybrid model that takes the **best features** of both Web2 and Web3 to create a more efficient and secure internet.

**Procedure:**

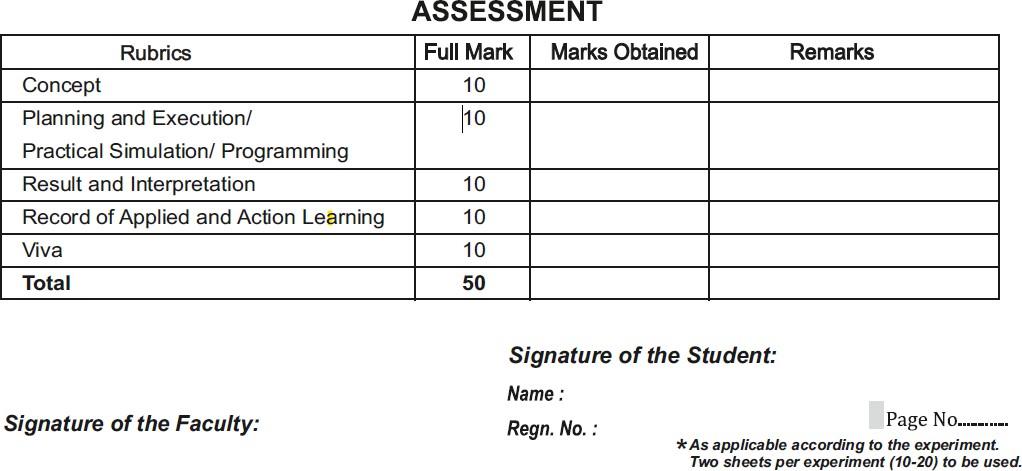
1. Collected information on Web2 and Web3 concepts from reliable sources.
2. Conducted a **debate** highlighting the strengths and weaknesses of each.
3. Listed **limitations of Web2** (centralized control, privacy issues) and **limitations of Web3**

(scalability, complexity).

1. Proposed **redesign ideas** merging Web2’s user experience with Web3’s decentralization and transparency.
2. Created a comparative **observation table** and documented final conclusions.

**Observation:**

1. Web2 platforms are **faster and easier to use**, but **centralized control** means users have limited data ownership.
2. Web3 platforms offer **decentralization and stronger security**, but require **technical knowledge** and suffer from scalability issues.
3. Web2 is **widely adopted** due to its simplicity, while Web3 adoption is **growing slowly** due to complexity and infrastructure challenges.
4. Monetization in Web2 mostly benefits companies, while Web3 enables **direct earning opportunities** for users through tokens, NFTs, and DeFi.
5. A **hybrid Web2-Web3 model** could solve key problems by merging user-friendly interfaces with decentralized backends.

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