

Comparative Analysis of Web2 and Web3  
  
**Objective/Aim:**  
  
 To understand how the evolution from centralized to decentralized systems impacts data ownership, privacy, and security.



**Apparatus/Software Used:**

* Laptop
* Microsoft Word (for documentation)
* Canva (for presentation

**Theory/Concept:**

**Web2: (Read + Write)**

* Emerged around 2004 and continues today..
* Enables user-generated content on centralized platforms (e.g., Facebook, YouTube).
* Highly adopted globally, with many businesses built on top of it.
* Globally adopted by everyone.
* Monetization models are typically ad-based, using user data for targeted advertising..

**Web3: (Read + Write + Own)**

* Next generation of the internet built on blockchain technology
* Users own and control their own data and digital assets
* Monetization allows direct earning via cryptocurrency and tokens, without intermediaries.

**Key Differences:**

* Platform: Web2 – centralized platform ; Web3 – decentralized platform.
* Data Privacy: Higher in Web3, and in web 2 companies can access the data and use it.
* Security: Web3 uses blockchain technology , cryptography for enhanced security.
* Censorship Resistance: Web3 is resistant to censorship.
* Complexity: Web2 has used by everyone but web3 need learning its not complex.



**Procedure:**

* Studied the theoretical concepts and differences between Web2 and Web3.
* Created a presentation highlighting the comparison of features, advantages, and disadvantages.
* Analyzed the effect of decentralization on data ownership, privacy, and security.
* Compiled observations into a comparative table.
* Discussed real-world scenarios where Web3 can improve limitations found in Web2

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**Observation Table:**

