

 **Web2 vs Web3 – Debate and Redesign**  
**Objective/Aim:**

To compare Web2 and Web3, focusing on their fundamental architectural differences, ownership models, user control, security, and implications for the internet's future evolution

**Apparatus/Software Used:**

* Laptop (Brave)

**Theory/Concept:**

Web2 is the current mainstream internet characterized by interactive sites but centralized control in corporate hands, leading to data monetization and privacy concerns. Web3 envisions a decentralized internet where users regain ownership and control over their data, identity, and content through blockchain technology. It fosters transparency, censorship resistance, and new economic models built on tokens and smart contracts



**Procedure:**

* Privacy and Security: Web3 enhances security and user privacy by cryptographically securing data and removing central points of failure, while Web2 often struggles with data breaches.
* Control and Censorship: Web3 reduces centralized censorship and platform control, promoting freedom and democracy online, versus the controlled ecosystems of Web2.
* Adoption Reality: Web2 is mature, widely adopted, and stable; Web3 is emerging, facing challenges like scalability, usability, and regulation.
* Transition: Web3 is not a full replacement but likely to coexist with Web2, with gradual integration of decentralized features).

**Observation:**

* Shift from centralized cloud servers to decentralized infrastructure like blockchain nodes
* Adoption of self-sovereign identities replacing conventional login/password systems
* New economic and governance models using tokens, DAOs, and smart contracts for online services
* Enhanced interoperability and user data portability across platforms
* Greater user empowerment and participatory internet governance