

## Reflection on Blockchain Class

### Introduction

In this reflection, I'll talk about my experience in a class discussion on **blockchain technology**, its **key concepts**, and real-world applications. The professor explained how blockchain works, pushed us to think critically, and challenged us to engage in discussion. This reflection will cover the main ideas I learned and how they changed my understanding of the topic.

### My Experience

The class focused on **decentralization**, which means there is no central authority controlling the data. Instead, blockchain operates on a **distributed ledger**, where transactions are recorded across multiple computers, called **nodes**. The professor emphasized that this makes blockchain more secure and resistant to fraud.

We discussed **use cases**, such as:

- **Cryptocurrencies** (e.g., Bitcoin, Ethereum) that use blockchain for secure transactions.
- **Supply chain management**, where blockchain helps track goods in real-time.
- **Smart contracts**, which are self-executing contracts where terms are written in code and automatically enforced.

A key takeaway was learning about **immutability**, meaning that once data is recorded in a blockchain, it **cannot be changed or deleted**. This is what makes blockchain highly secure and trustworthy.

The professor also mentioned an opportunity to develop smart contracts and **Non-Fungible Tokens (NFTs)**, which are unique digital assets stored on a blockchain. He even offered to fund a student project, which made me realize the **real-world value of blockchain applications**.

### My Thoughts and Feelings

At first, I felt uneasy because the professor called on students randomly to explain concepts. However, I realized this was meant to push us to **think critically and not just memorize information**. By the end of the class, I appreciated this approach because it made me more engaged and forced me to actually understand the material instead of just reading definitions.

### What I Learned

One of the biggest lessons I took from this discussion is that blockchain **isn't just about cryptocurrency**—it has applications in **finance, healthcare, cybersecurity, and even digital art**.

The discussion on **illegal uses of blockchain** also caught my attention. Because blockchain transactions can be **anonymous and difficult to trace**, it has been used for **money laundering** and other crimes. This made me realize that **new technologies can be both beneficial and risky, depending on how they are used**.

I also learned the importance of **being prepared for discussions**. The professor expected us to have read about blockchain before class, and it was clear that students who had done so were able to contribute more meaningfully.

### **How This Helped Me Grow**

This experience made me want to **study new technologies in more depth** instead of just memorizing definitions. It also showed me that **actively participating in discussions helps reinforce learning**.

### **Skills I Gained**

This class helped me improve my **critical thinking, problem-solving, and communication skills**. The professor's questioning made me realize that I should always be prepared to **explain technical concepts in simple terms**.

### **How I'll Use This in the Future**

I plan to **study blockchain security and smart contracts further**, as they connect to my interest in **AI and cybersecurity**. I also want to **improve my ability to explain complex ideas clearly**, which will help in both academic and professional settings.

If the opportunity to work on a **blockchain-based project** arises, I would be interested in participating, especially in areas related to **cybersecurity, AI, or financial technology**.

### **Conclusion**

This class helped me see that **understanding a topic is more important than just memorizing it**. It also reinforced the value of **active learning and participation**. Moving forward, I will take a more **engaged and analytical** approach to technical subjects and seek opportunities to apply what I learn in real-world projects.