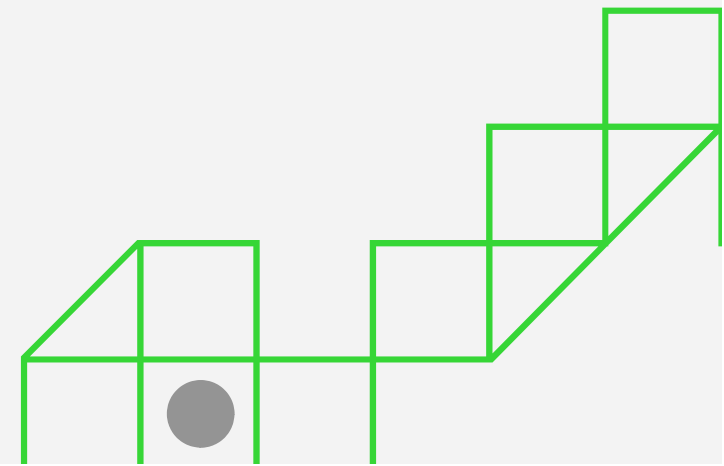




Revolutionizing Carpooling: Leveraging Ethereum for Decentralized Applications



TEAM--ALPHA9

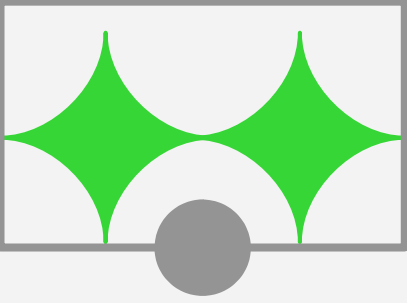
Satyam Kumar Singh(20223236)

Rishabh Maurya(20223211)

Raj Gayakwad(20223197)

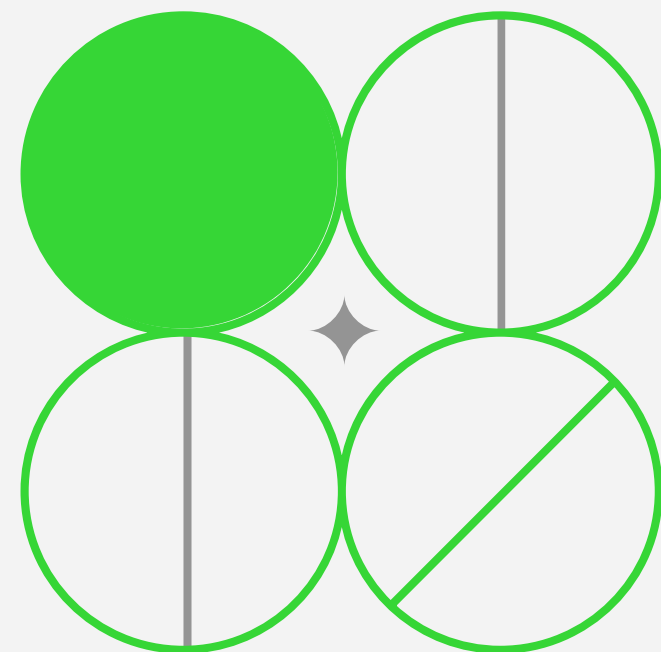
Sachin Yadav(20223221)

Nikhil Kumar Suman(20223164)



Introduction to Carpooling

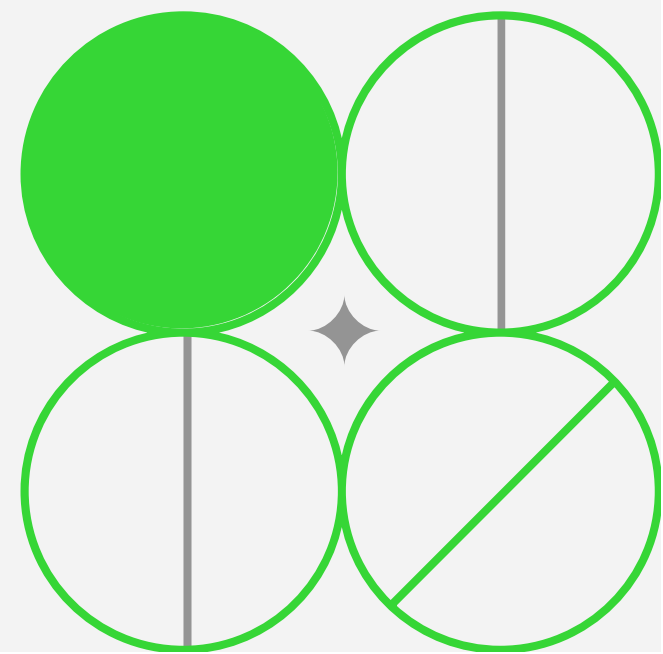
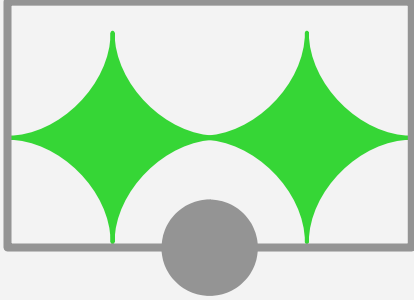
Carpooling is a shared transportation method that reduces costs and traffic congestion. In this presentation, we will explore how **Ethereum** and **decentralized applications** can enhance the carpooling experience, making it more efficient, secure, and user-friendly.

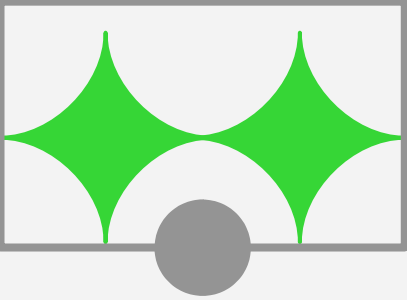




The Need for Change

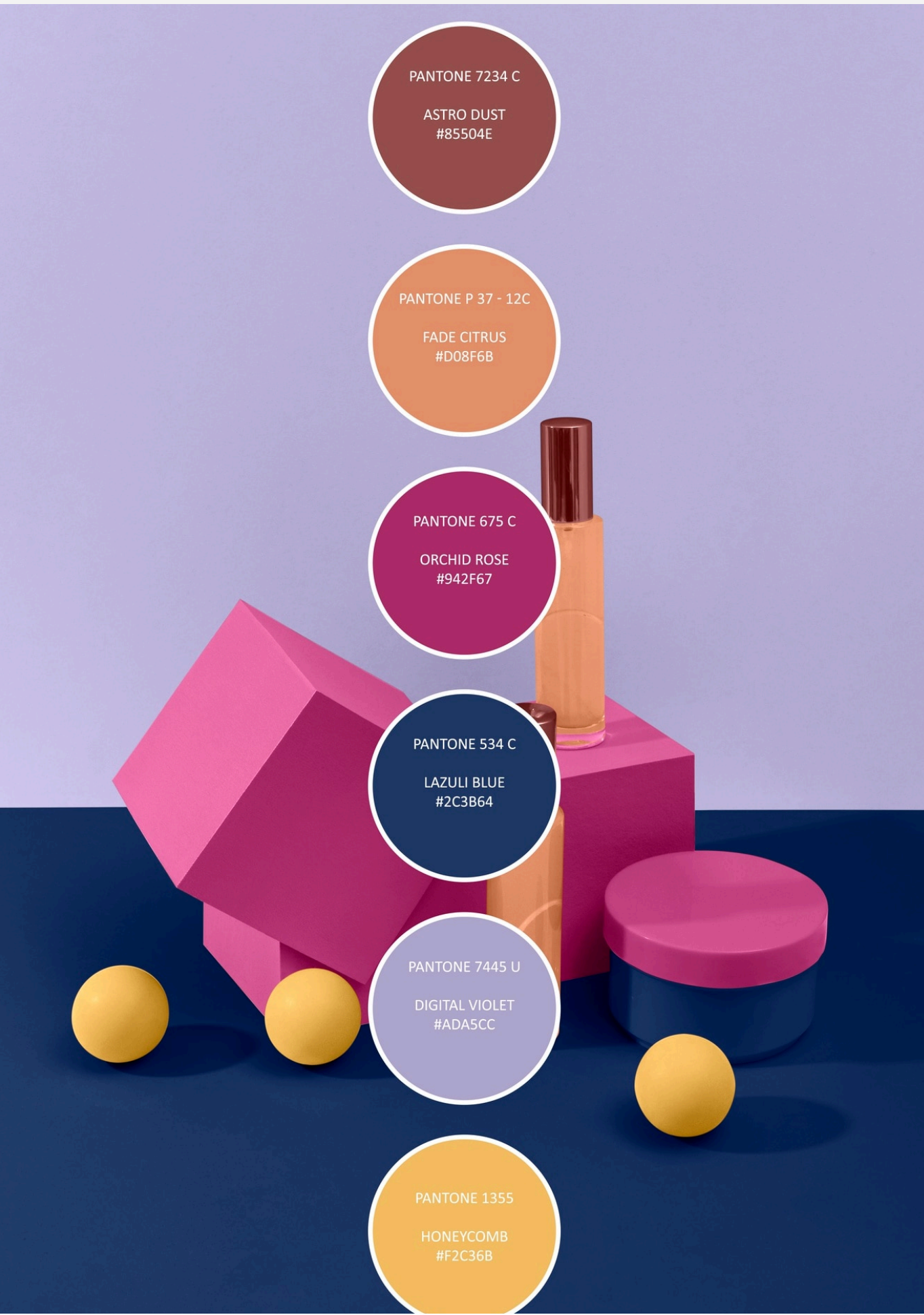
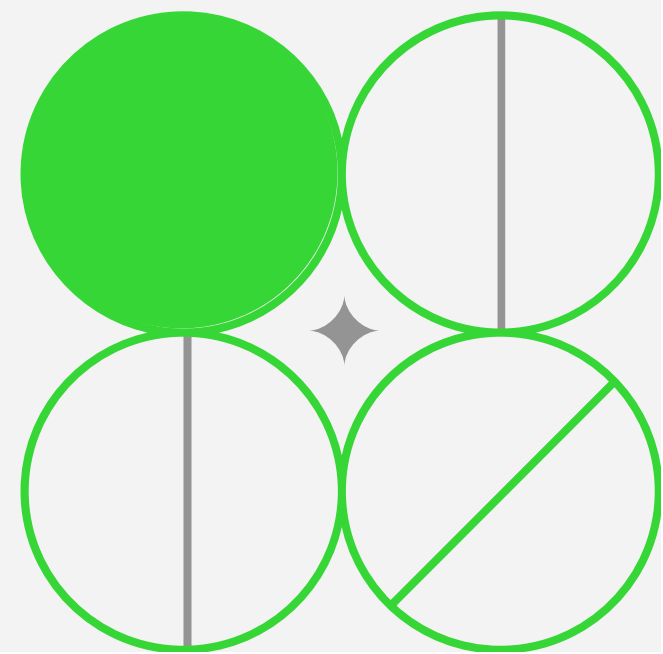
Traditional carpooling methods often face challenges such as **trust issues**, **coordination difficulties**, and lack of **transparency**. By leveraging **blockchain technology**, we can address these challenges and create a more robust carpooling ecosystem.





Understanding Ethereum

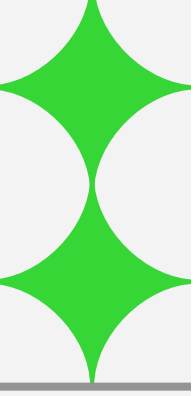
Ethereum is a decentralized platform that enables developers to build **smart contracts** and **dApps**. Its flexibility and security make it ideal for implementing innovative solutions in the carpooling sector, fostering trust among users.





Smart Contracts in Carpooling

Implementing **smart contracts** in carpooling can automate agreements between users. This ensures that **payments** are made securely and automatically when conditions are met, enhancing the overall user experience and reducing disputes.



TECHNICAL OVERVIEW

Blockchain:- Ethereum decentralized technology

Smart Contracts:- written in solidity for managing transactions and integrity.

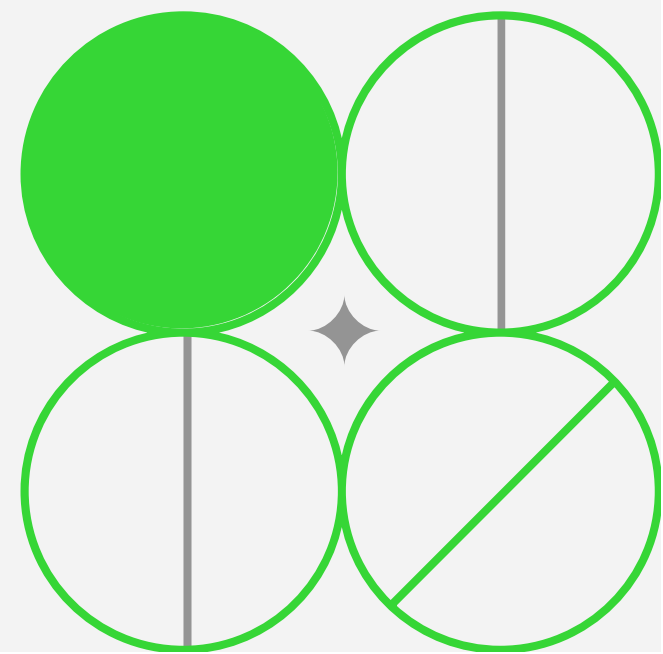
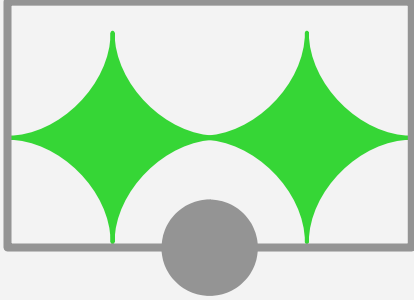
Web3 integration:- Utilizing Web3.js and ether.js for blockchain interaction.

Javascript:- Js-Query along with HTML & CSS stylesheet for frontend.



Benefits of Decentralization

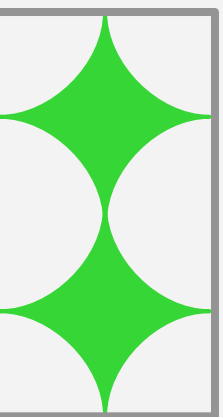
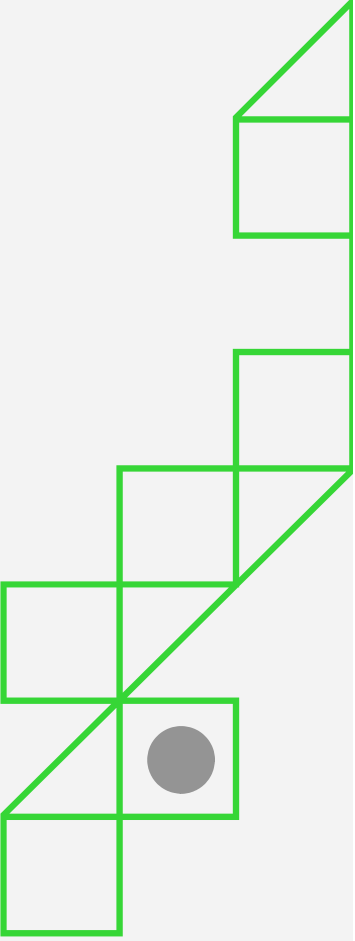
By utilizing a **decentralized system**, we can achieve greater **efficiency** and **reliability** in carpooling. Users can verify each other's credentials, leading to increased **trust** and a more satisfying experience overall.

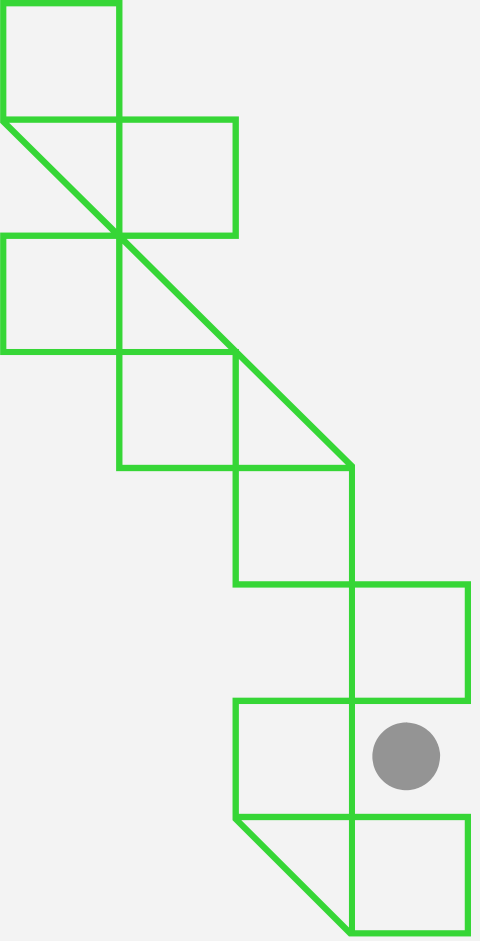




CONCLUSION AND FUTURE OUTLOOK

The integration of **Ethereum** in carpooling presents a transformative opportunity. As we move forward, embracing **decentralized technologies** will not only enhance user experiences but also contribute to a more sustainable transportation model.





Thanks!

