# Fake Product Identification Using Blockchain

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#### **Overview**

#### Aim

To develop a solution for the counterfeiting of products in the market.

#### Recent progress

- Explored Web3, blockchain and solidity.
- Completed the project's frontend.

#### Biggest risk

The most significant risk to this project lies in potential security vulnerabilities and breaches within the blockchain system.

#### **Objectives**

- Provide a user-friendly interface for consumers, enabling them to independently verify product authenticity.
- Establish a comprehensive and secure system to track products from production to sale, enhancing supply chain transparency.
- Contribute to the ongoing discourse on leveraging blockchain technology to combat counterfeit products and improve consumer protection.

#### **Literature Survey**

#### Finding 1

 In a Blockchain based system the data is stored on each node, then the nodes exchange information with each other over the network.

#### Finding 2

existing systems are that brands used QR codes on products to prove the validity of the product.But the QR code can be copied and used to label counterfeit products.

#### **Problem Formulation**

- Browser Compatibility: Compatibility across different web browsers posed challenges, as the project relied upon specific features of metamask extension that behaved differently across browsers.
- Performance: Ensuring that the frontend operates efficiently and responds promptly to user interactions, even when interacting with the blockchain, was a concern. Slow loading times or lag in transactions can deter users.
- Security: Implementing security measures in the frontend to protect user data and private keys was critical. Failing to do so could expose users to risks like unauthorized access and data breaches.

#### **Work Done**

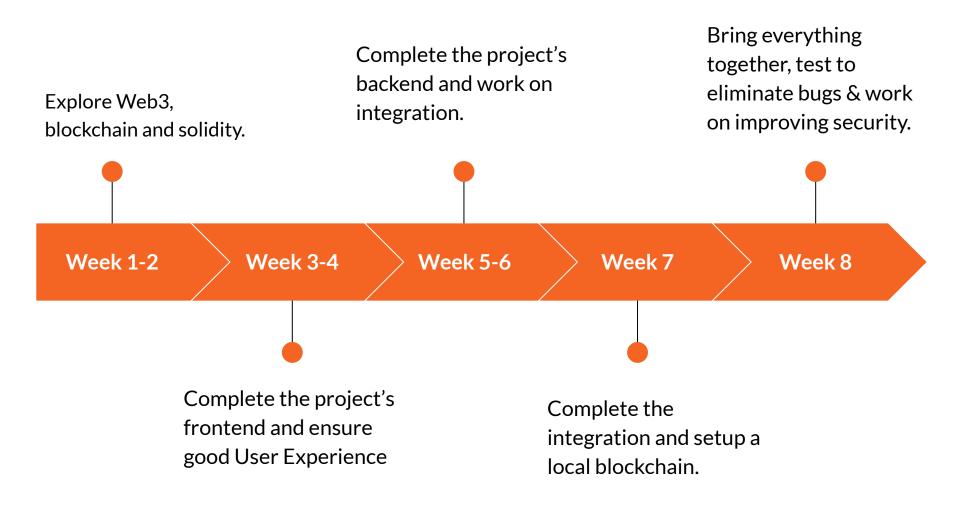
#### Week 1-2

Explored Web3, blockchain and solidity. Discussed the findings and after laying out a road map, distributed the work among ourselves.

#### Week 3-4

 Completed the project's frontend and moved back and forth between development and testing phases to ensure best User Experience.

### Schedule



#### References

- https://www.itm-conferences.org/articles/ itmconf/pdf/2022/04/itmconf\_icacc2022\_ 03015.pdf
- Detection of Counterfeit Products using Blockchain

## THANK YOU ANY QUESTIONS?