TEMCO

Blockchain based suppy chain &
E-commerce system platform

TEMCO TEAM.

TEMCO team started with the co-founders' dream of commercialization of the blockchain.
Currently there are total of 30 employees with 2 headquarters and 5 departments.

WHAT WE DO.

Taking true value of supply chain data to the next level with E-commerce and Supply Chain Ecosystem

Supply Chain Management

Blockchain based SCM and proof of authenticity

E-commerce

Blockchain based e-commerce platform for B2C mass adoption

Open Blockchain API

Blockchain based API integrated solution for B2B

Supply Chain Blockchain

Creation of Contract

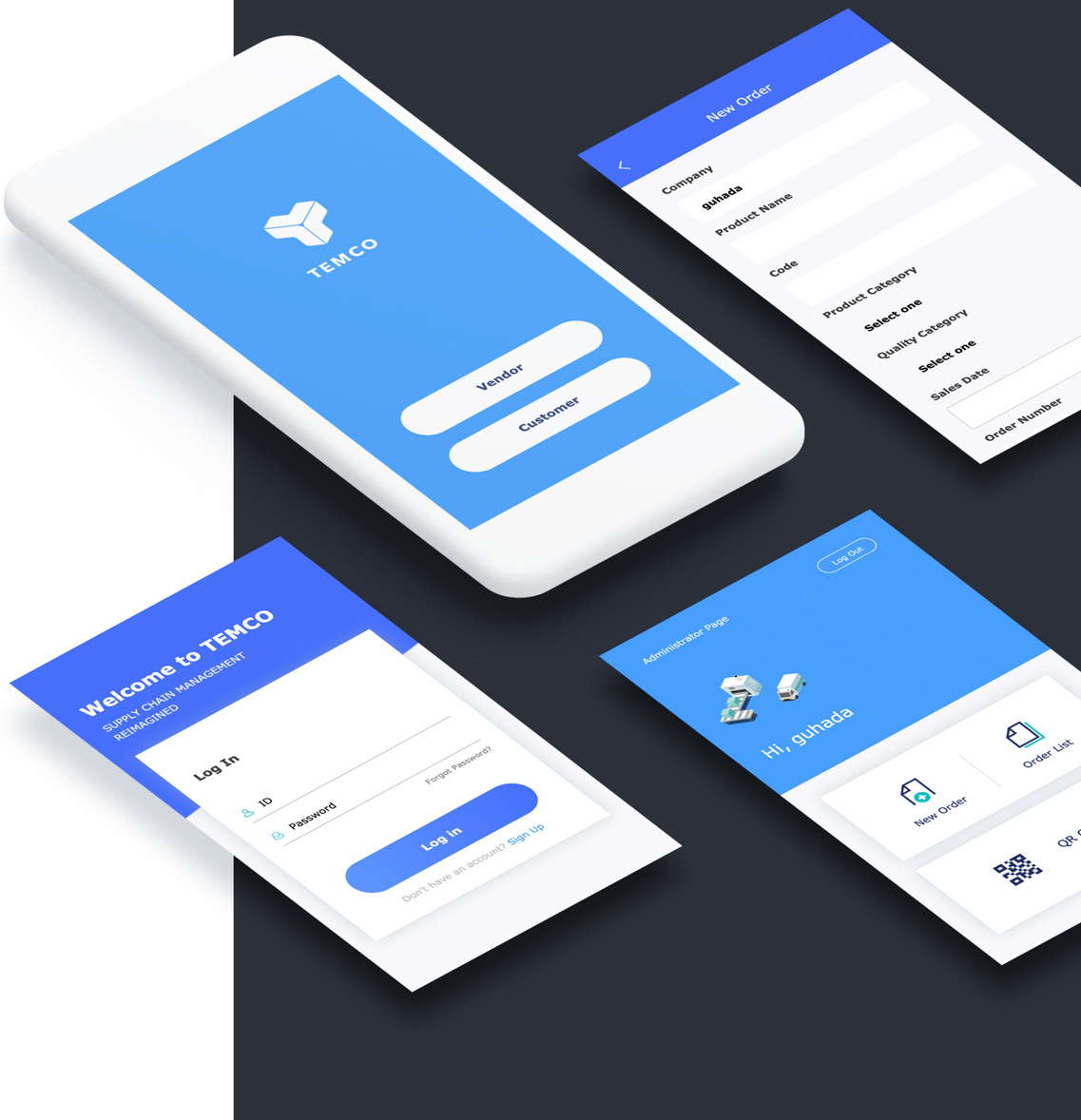
Product Sales

- IoT Device Installation
- Data Transmission

Product Delivery

Order Confirmation

Transfer of Ownership



GUHADA

TEMCO’s major launch is an e-commerce platform called ‘GUHADA’ which is used to track the reselling of luxury goods and verify authenticity using blockchain.

Creation of Contract → Product Sales → Product Delivery → Order Confirmation → Transfer of Ownership

· Blockchain

KEY FEATURES IN GUHADA

GUHADA is a new and revolutionary e-commerce open market platform system that applies supply chain blockchain technology and active rewards system from the entire process of authenticity verification to user community.

Vendor Verification System

· TEMCO verifies vendors with business registrations and documents
· Uploading data to blockchain

Transparent Product Record Management

· Recording of sales, delivery, transfer of ownership, etc. Uploading data to blockchain

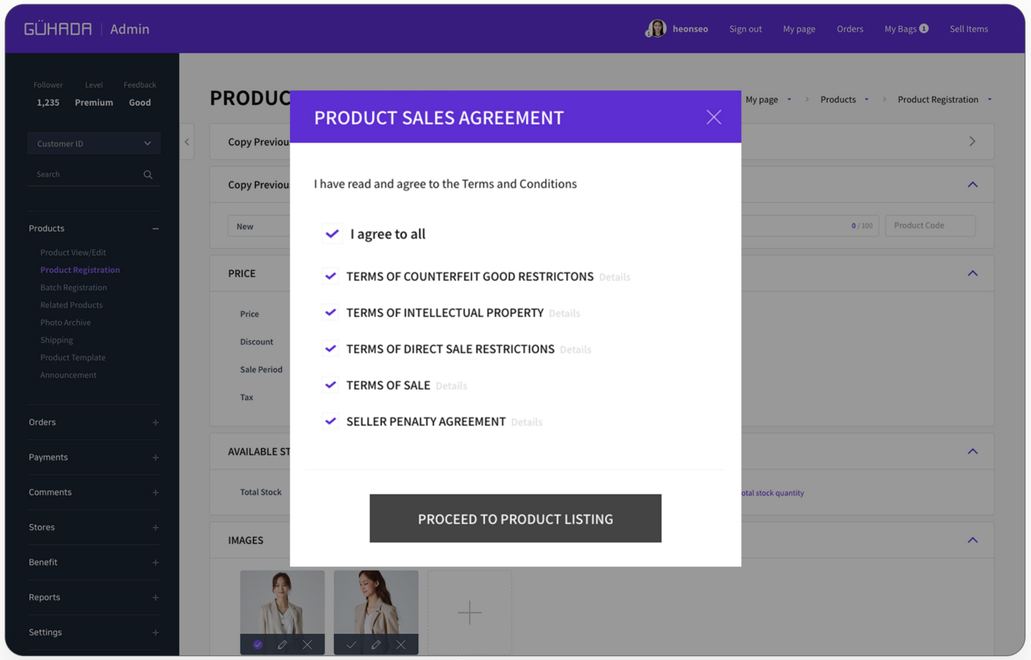
Authentic Product Registration System

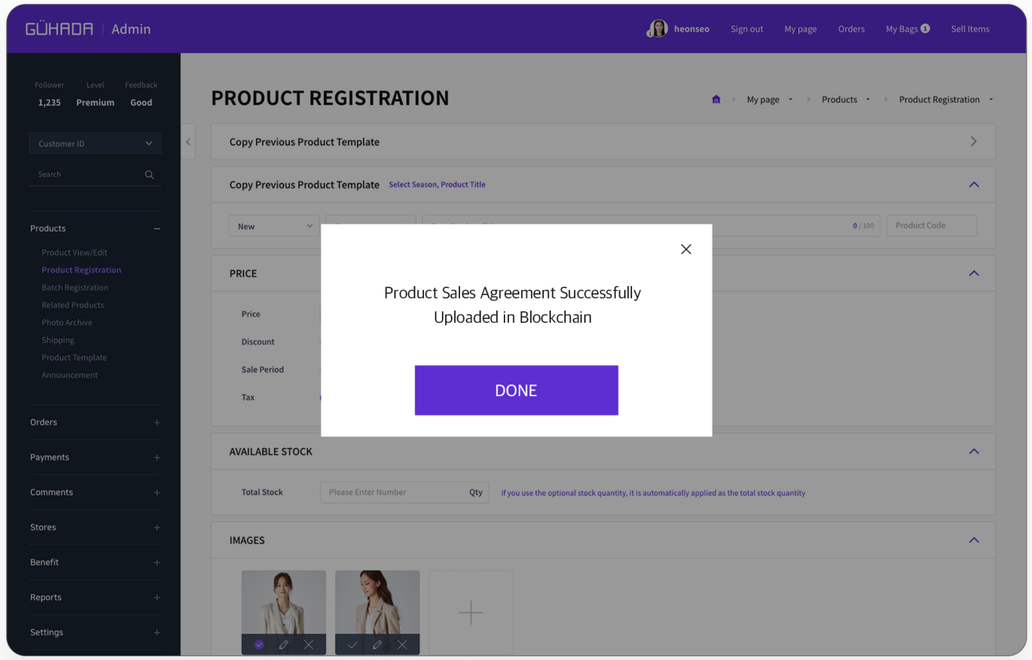
· Smart Contract based
· counterfeit compensation
· Sale of NFC attached Products

Token Economy

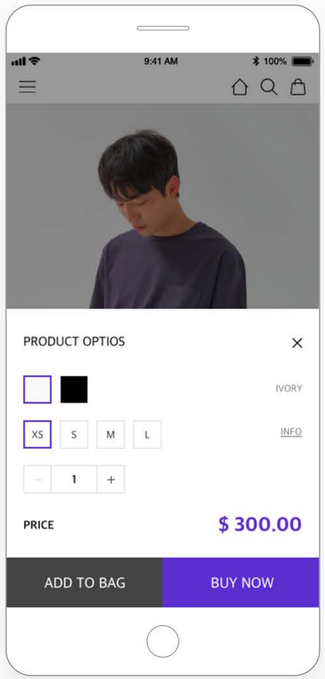
· Luxury Goods Community
· Token Payment System

COMPENSATION CONTRACT WITH SELLERS THROUGH SMART CONTRACT

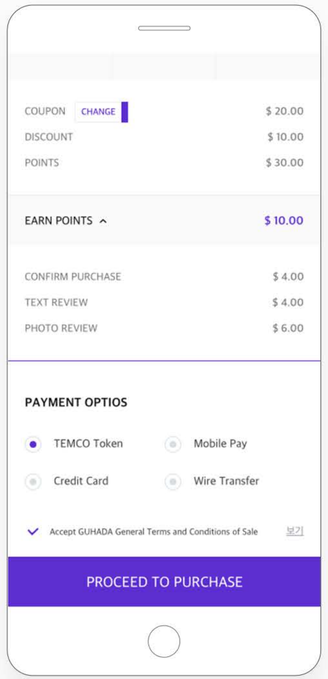




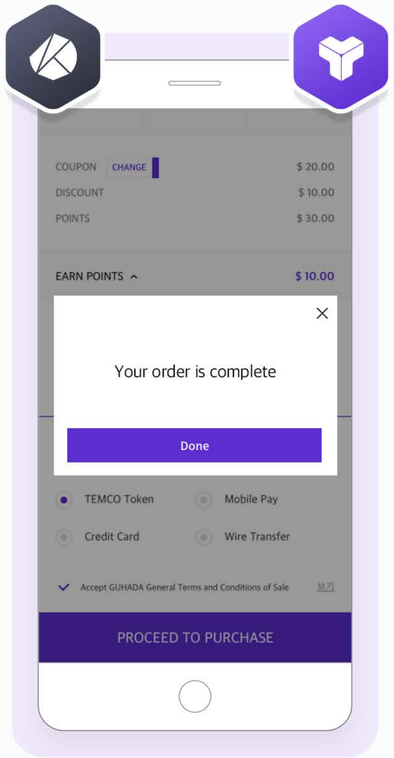
Supply Chain Authentication



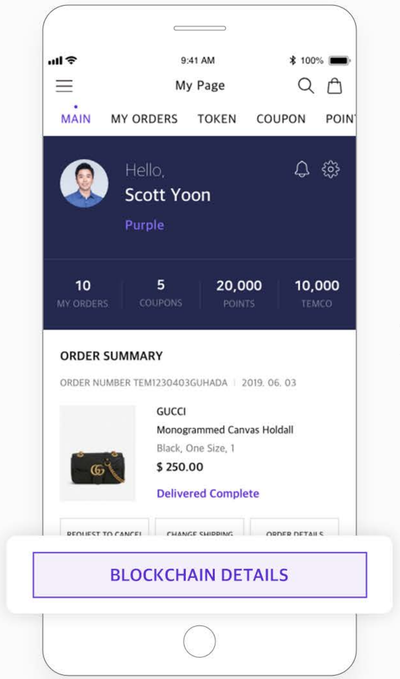
1. User confirms the product to purchase



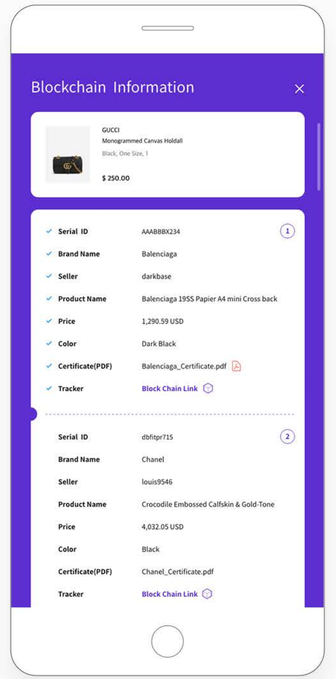
2. User confirms the payment options



3. The order is completed with TEMCO Tokens

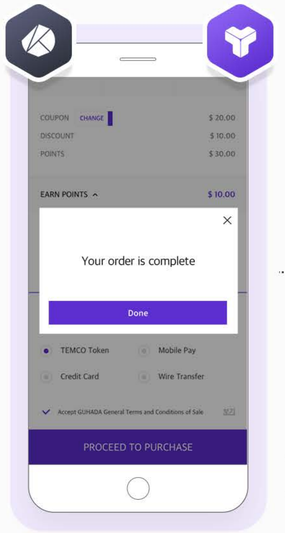


4. User checks the order summary through blockchain



5. Detailed order data in “Blockchain Information”

Purchase confirmation by user



1) Confirm Purchase

The order is completed
with TEMCO Tokens

Product Order API

2) Get purchase history

3) Upload ownership transfer
caver-java

DB

Blockchain

Smart Contract

Klaytn Nodes

Auto purchase confirmation

[2 weeks later after user buy product]

Batch Process

1) Get purchase history

2) Bulk upload ownership transfer

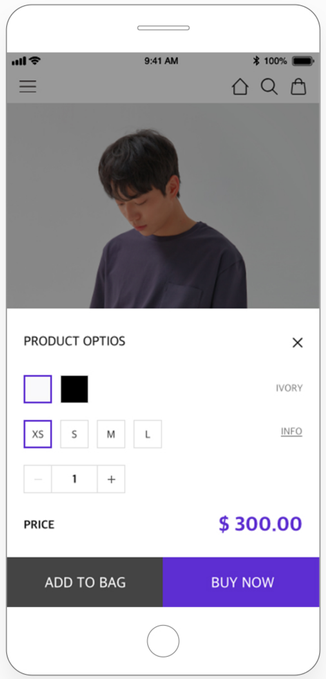
DB

Blockchain

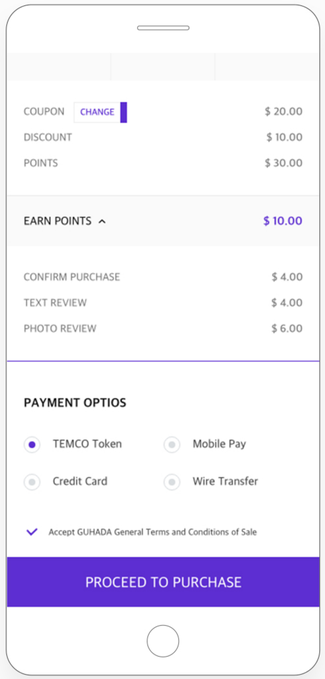
Smart Contract

Klaytn Nodes

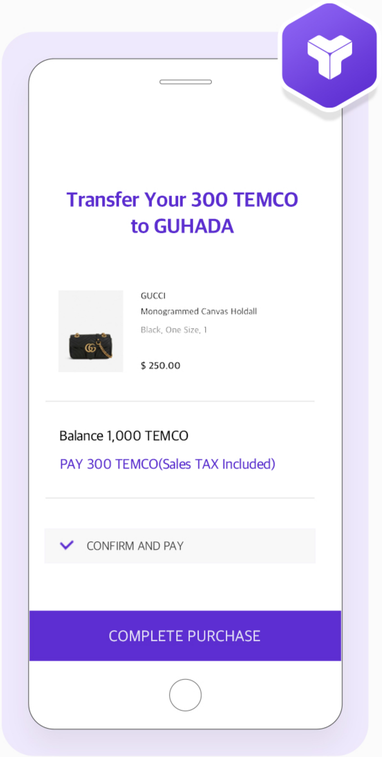
CRYPTO PAYMENT



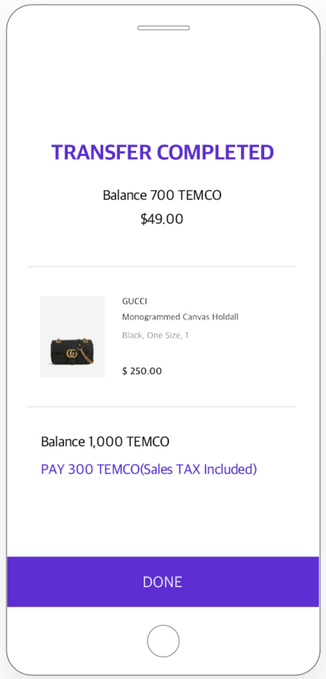
1. User confirms the product to purchase



2. User selects the “TEMCO Token” in payment options

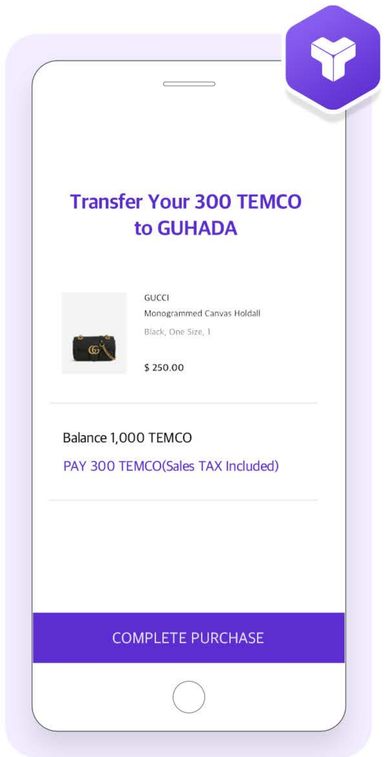


3. User confirms the payment details

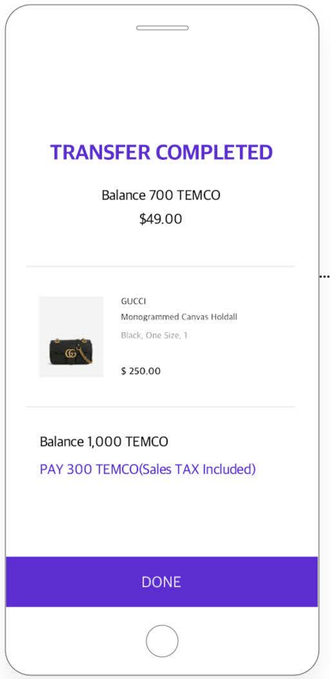


4. Token payment completed

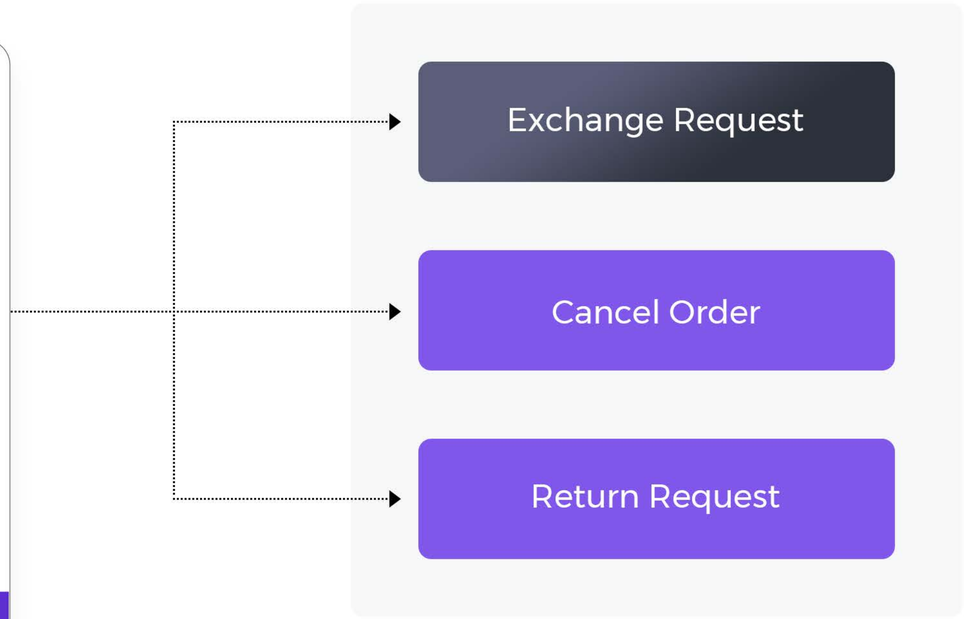
CRYPTO PAYMENT



User confirms the payment details

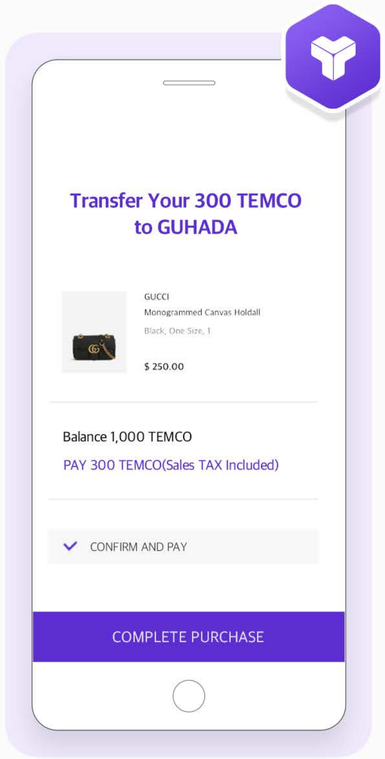


Token payment completed



- Cancel order or return request can be place within 2 weeks after complete payment
- Paid token price could be huge difference

CRYPTO PAYMENT



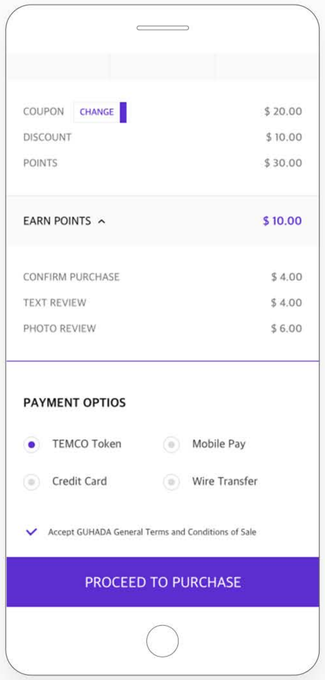
User confirms the payment details

REFUND

TEMCO
Token

GUHADA
Point

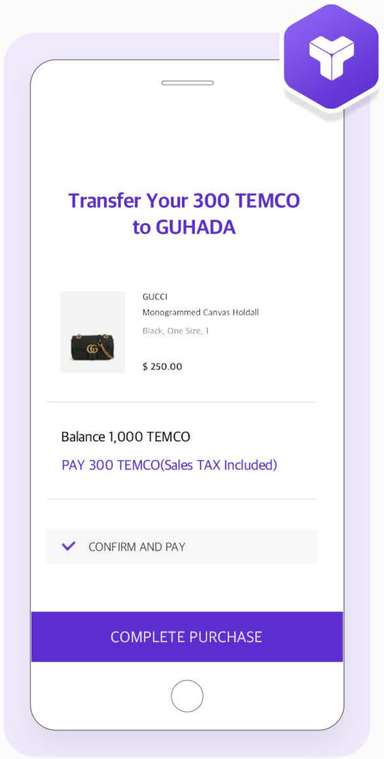
CRYPTO PAYMENT



User selects the “TEMCO Token” in payment options

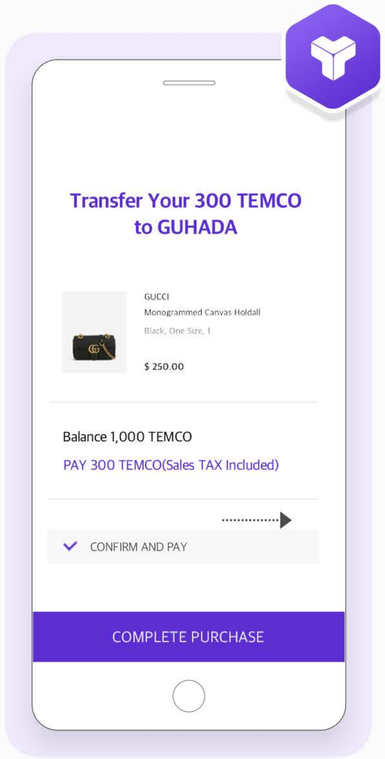
TEMCO
Token

GUHADA
Point

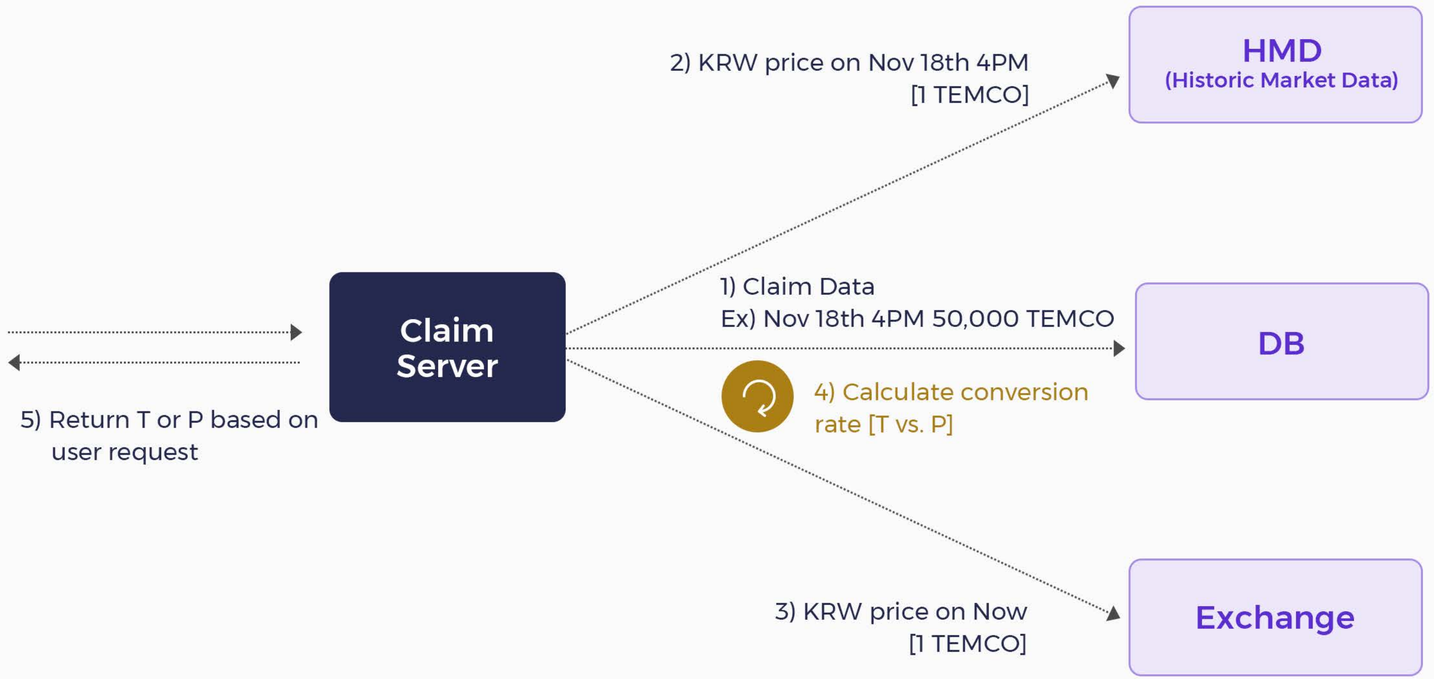


User confirms the payment details

CRYPTO PAYMENT

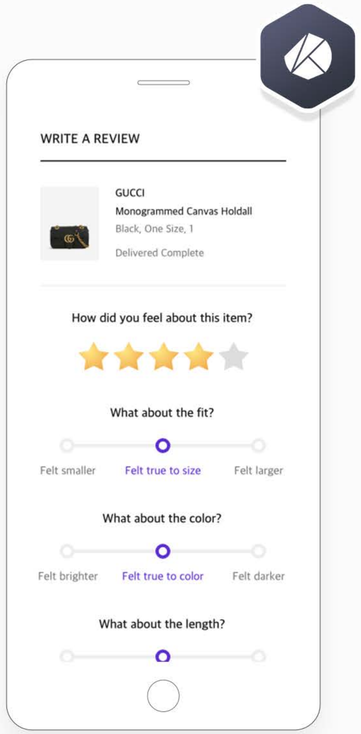


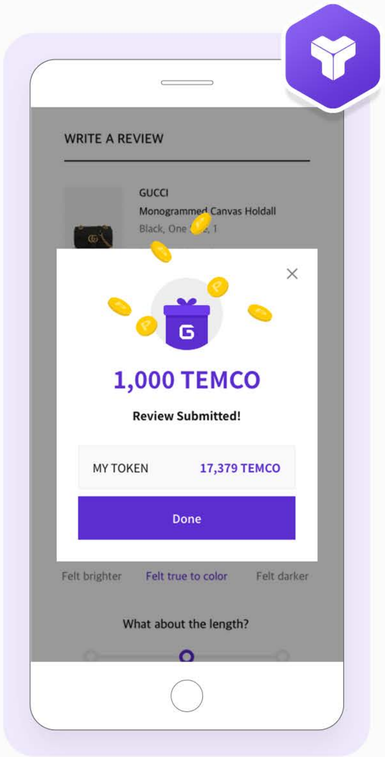
User confirms the payment details



COMMUNITY REWARDS

REVIEW

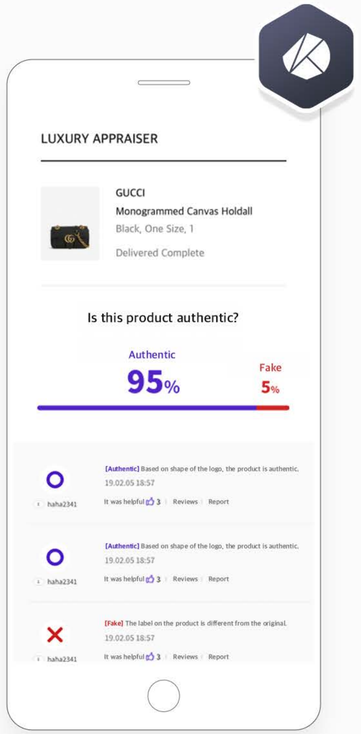


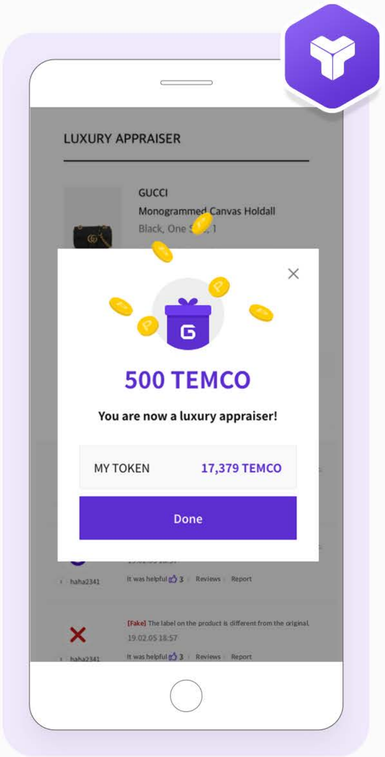


1. User writes product review

2. User receives reward points

Q&A

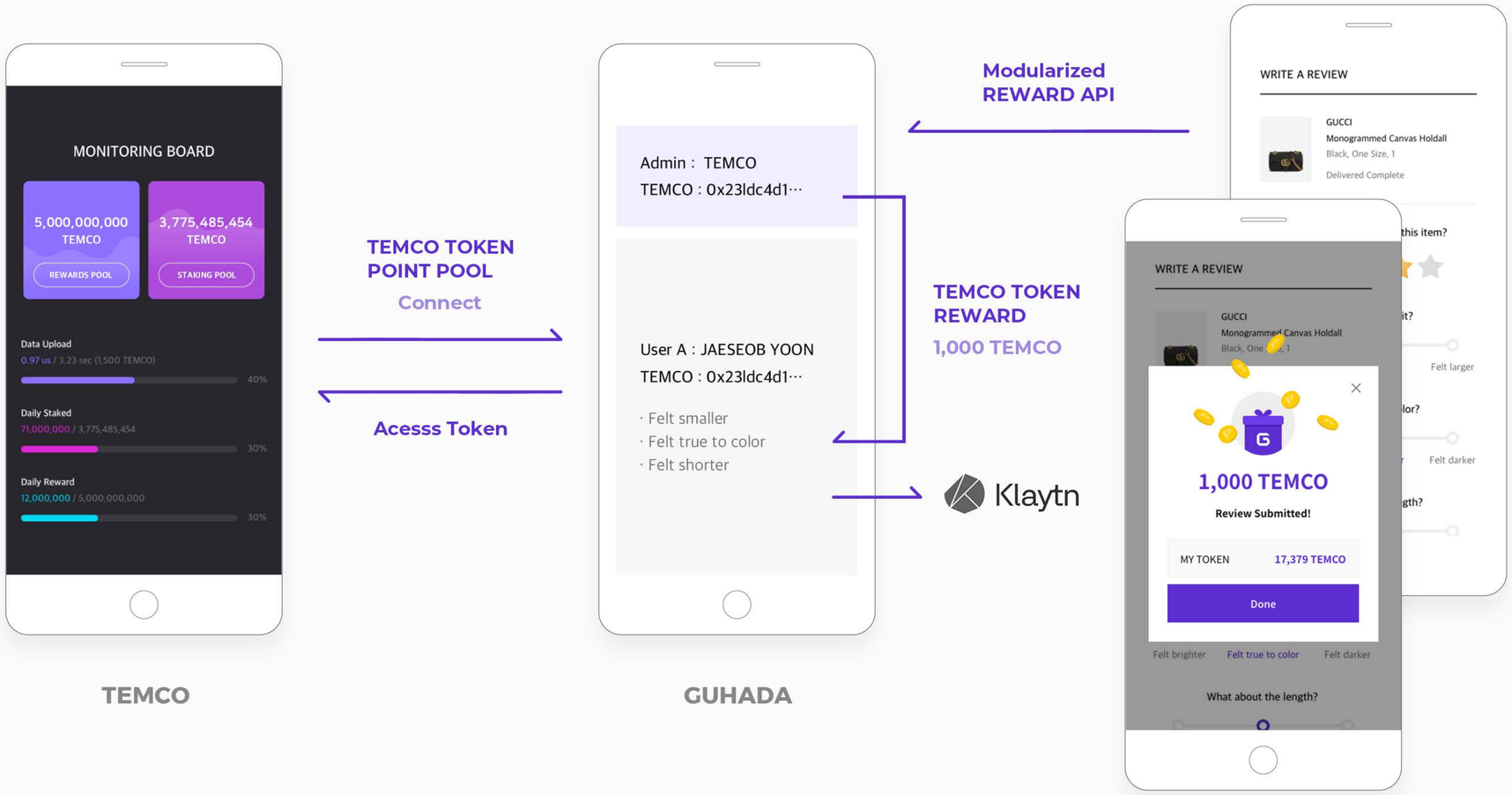




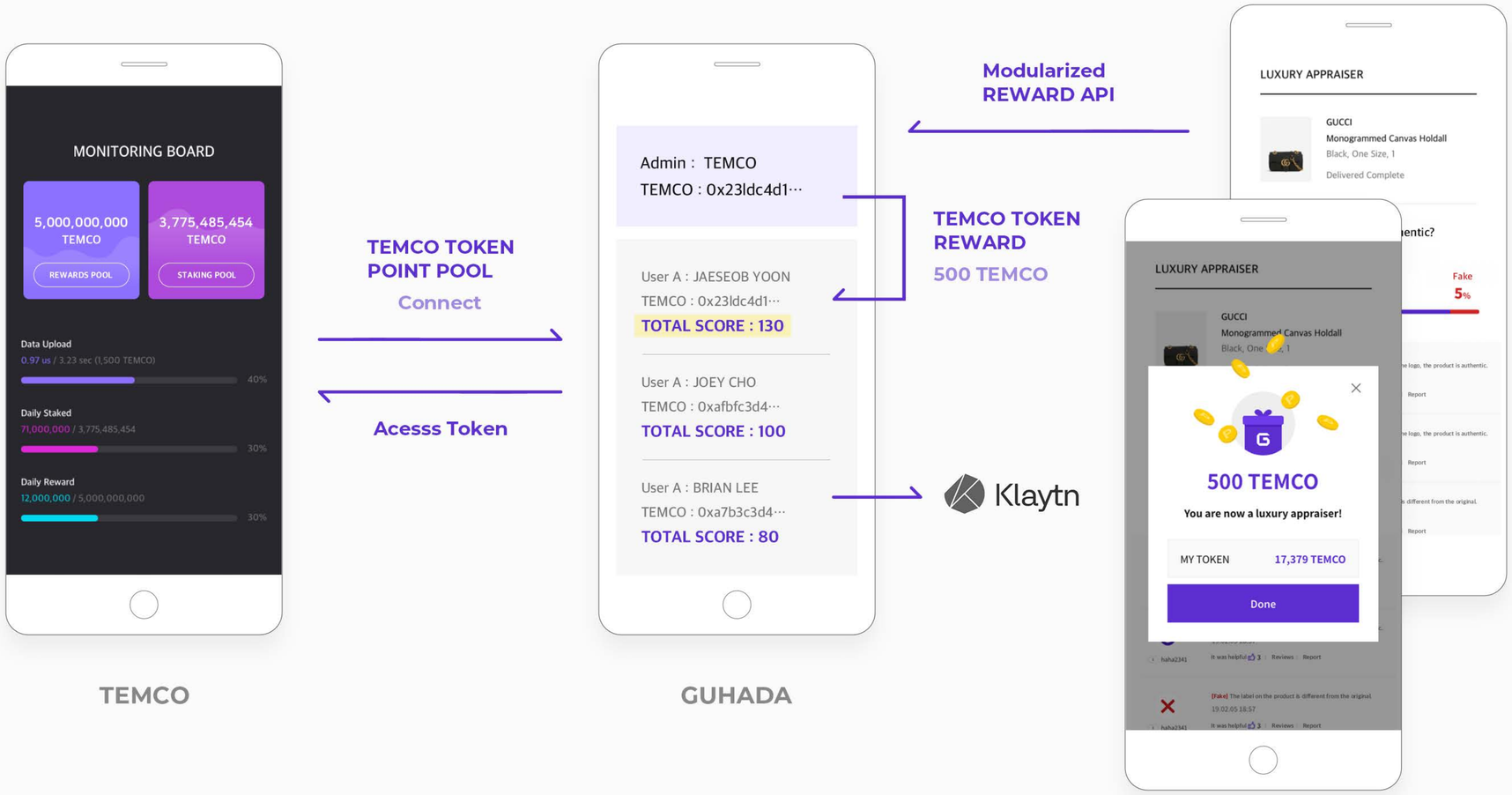
1. User answers authentication inquiry

2. User receives reward points

BLOCKCHAIN INCENTIVE STRUCTURE FOR PRODUCT REVIEW

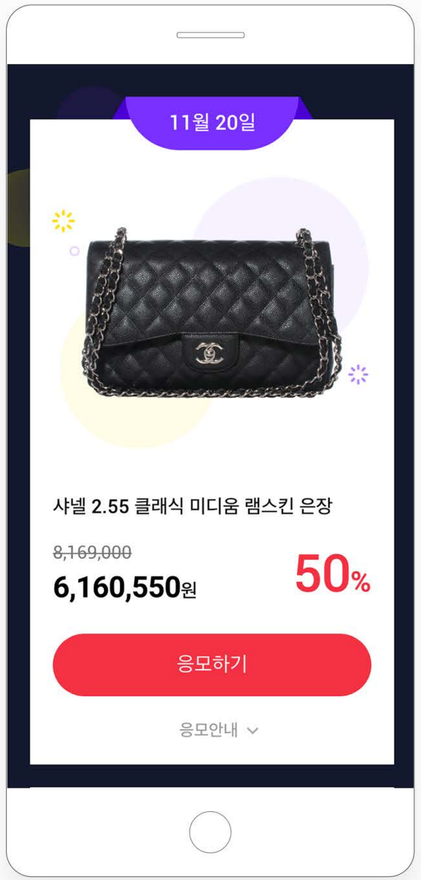


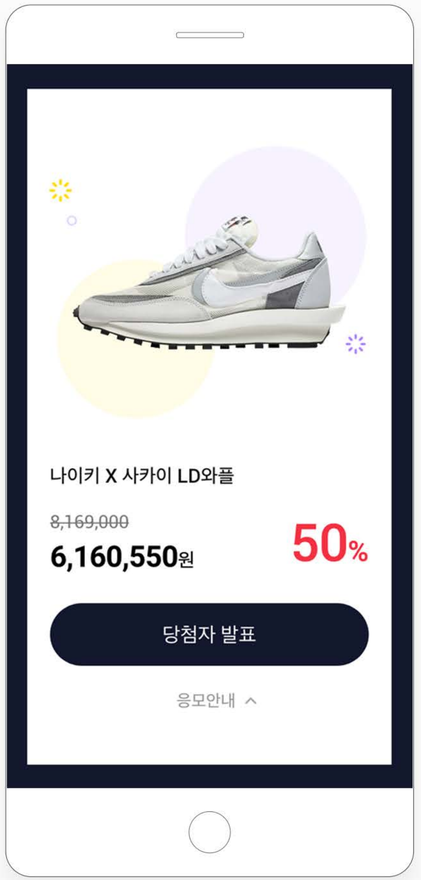
BLOCKCHAIN INCENTIVE STRUCTURE FOR Q&A



LUCKY DRAW


구하다
럭키드로우
11월 19일 OPEN
애플 에어팟 2세대 무선충전
24:34:57

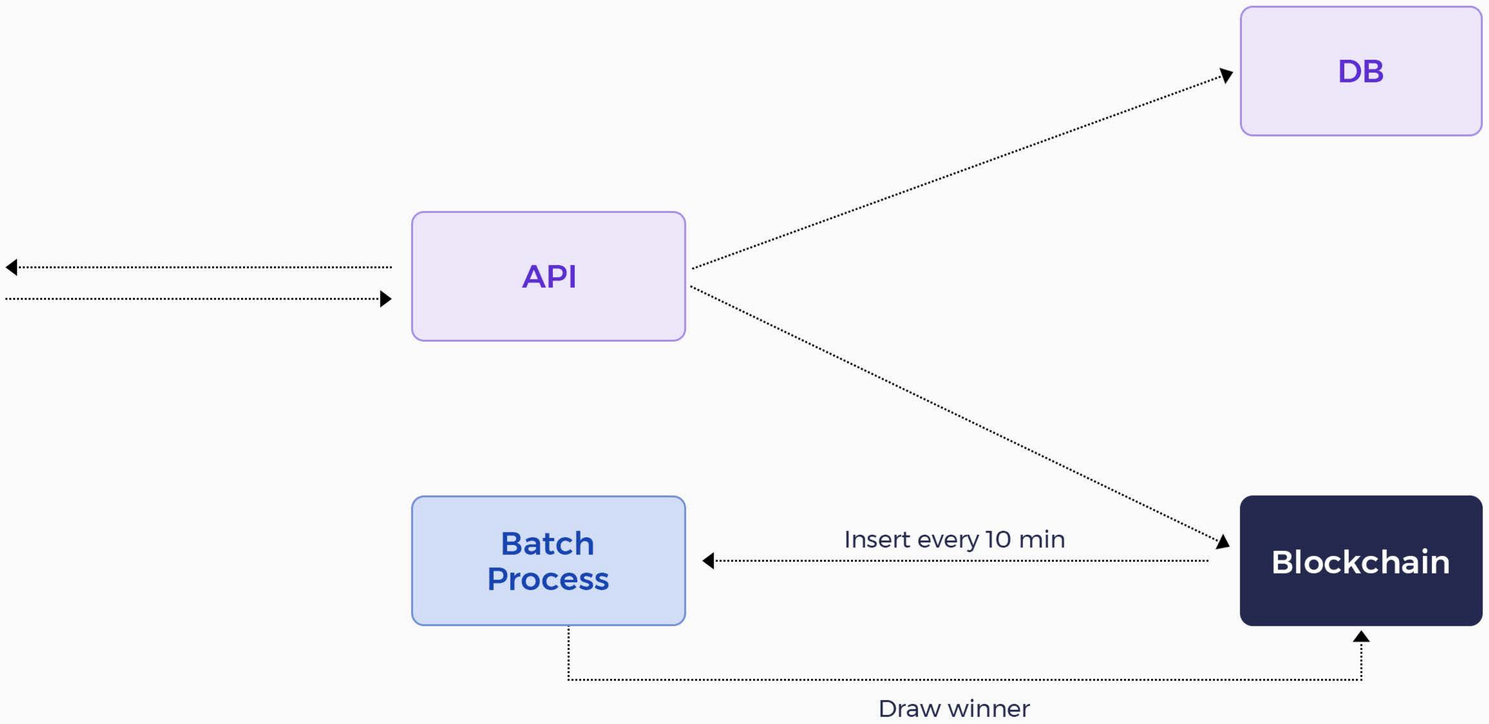

11월 20일
샤넬 2.55 클래식 미디움 램스킨 은장
8,169,000
6,160,550원
50%
응모하기
응모안내


나이키 X 사카이 LD와플
8,169,000
6,160,550원
50%
당첨자 발표
응모안내


애플 에어팟 2세대 무선충전
럭키드로우 응모 완료
확인
당첨자 발표일 11.13 (화) 13:00
당첨자 구매기간 11.13 (화) 13:00 - 11.14 (수) 13:00
· 당첨자 발표는 본인인증한 휴대전화 번호로 이뤄집니다.
· 당첨 안내수신 후 24시간 내 답변이 없을 시 취소 처리됩니다.

LUCKY DRAW


구하다
럭키드로우
11월 19일 OPEN
애플 에어팟 2세대 무선충전
24:34:57


DB
API
Batch Process
Insert every 10 min
Blockchain
Draw winner

LUCKY DRAW

Java
Math.random()

Random()

Solidity ➜ ?

Issues
Expensive algorithm cost too much

Solidity code should be deterministic (majority of miners have to obtain the same result when evaluating a transaction to reach consensus)

```
contract LuckyDraw {

    struct EntryUser {
        uint dealId;
        uint userId;
        string userEmail;
    }

    mapping(string => EntryUser) public entryUsers; // 응모한 유저정보
    mapping(uint => string[]) public luckyDrawEntrys; // 게임(딜아이디안에 게임에 응모한 유저유니크 키값을 저장
    mapping(uint => string) public luckyDrawWinner;  // 게임 당첨자정보(해당 게임의 딜 아이디로 당첨자 확인)

    function entry(string memory eventId, uint dealId, uint userId, string memory userEmail) public{
        entryUsers[eventId] = EntryUser(dealId, userId, userEmail);
        string[] storage transactions = luckyDrawEntrys[dealId];
        transactions.push(eventId);
        luckyDrawEntrys[dealId] = transactions;
    }

    function draw(uint dealId) public returns(string memory){
        uint limit = luckyDrawEntrys[dealId].length;
        uint random = randomNumber(limit);
        luckyDrawWinner[dealId] = luckyDrawEntrys[dealId][random];
    }

    function randomNumber(uint limit) internal returns (uint) {
        return uint8(uint256(keccak256(abi.encodePacked(block.timestamp, block.difficulty)))%limit);
    }

    function destoryDrawItem(uint dealId) public{
        delete luckyDrawEntrys[dealId];
```

THANK YOU .

Founders@temco.io