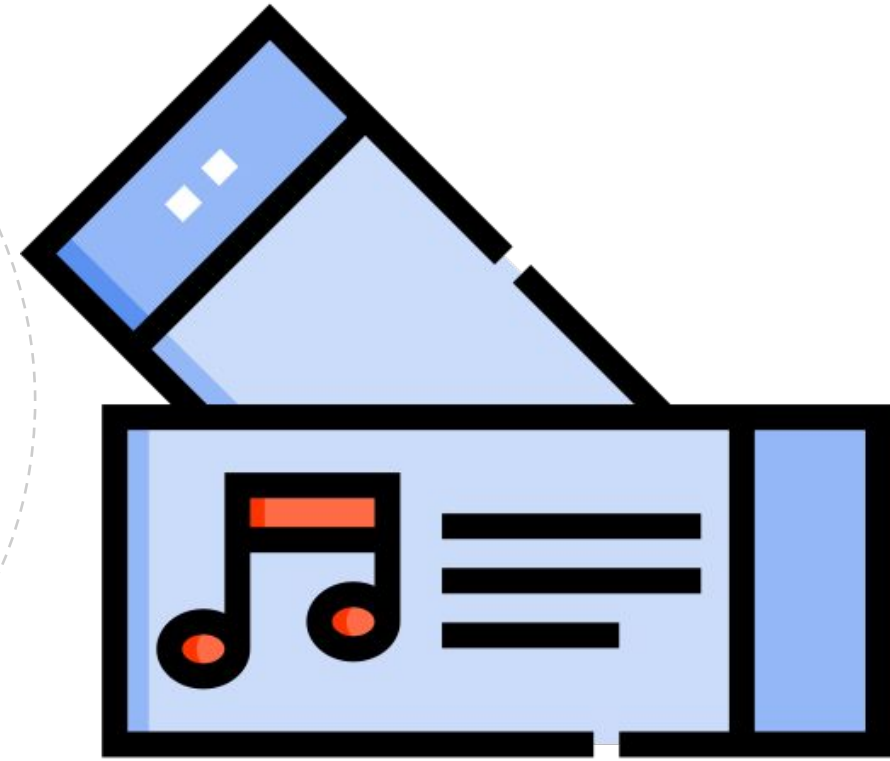


# Blockchain Ticket Platform **NFTicketmaster**

Team: Satoshi



# Agenda

Introduction-Identify Problem

Market Analysis

Product Concept

Workflow of Smart Contract

Smart Contract

# Team Contribution

**Bangjie Liu:** Smart Contract

**Cissy Ren:** Product, Test Plan

**Chong Li:** Problem, Test Plan

**Jianfei Shi:** Smart Contract

**Yuan Xiao:** Market

A decorative graphic on the right side of the slide, consisting of a solid light gray arc and a dashed light gray arc intersecting at a small purple dot.

# Problem

Problem#1

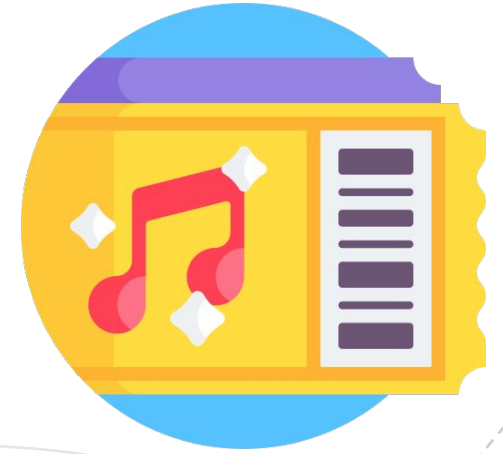
Problem#2

Problem#3

Lack of  
Transparency

Counterfeiting

Scalping



# Who

- **Event-Goers**
- **Event Organizers**
- **Legitimate Ticket Sellers**

# Why

- **For fans:** Financial Losses; Ruined experience
- **For event organizers and sellers:** Loss of revenue; Reputation damage

# How

- **Magnitude of the Problem:** Financial Losses; Reputation Damage; Inflated Price; Decreased Fan Morale
- **Frequency of the Problem:** Chronic!



# Market Analysis



## Affected Parties

- Event-goers and fans
- Event Organizers



## Potential Competitor

- Traditional platform: Ticketmaster, Dice, SeatGeak
- Others: Scalpers



## Market Trends

- Rapid growth in digital ticket sales
- Increasing popularity of online ticketing platforms
- Scalped ticket prices are severely inflated

# Market Analysis

## Target Market

Online Ticket Sales

**\$8.1 billion U.S market**

## Factors influencing Online Ticket Sales

- Per capita disposable income
- Time spent on leisure and sports
- E-commerce sales
- Total advertising expenditure

## Main Product Line

- concert tickets
- sporting event tickets
- arts and theatrical performance tickets
- children/family-themed performance tickets



# Product

Introducing a new blockchain ticket platform to revolutionize ticket selling

01

## **NFT-based Tickets**

Instead of traditional physical or digital tickets, we will introduce NFT-based tickets to the market.

02

## **Smart Contract**

All ticket transactions will be processed through our smart contract, ensuring the secure transfer of tickets.

03

## **Trading Fee**

All ticket trading will incur a trading fee, and we will increase the gas fee for exceptionally high-priced ticket transfers.

### **Mint**

- A platform where Users can mint NFT-based tickets for specific events.

### **Reselling**

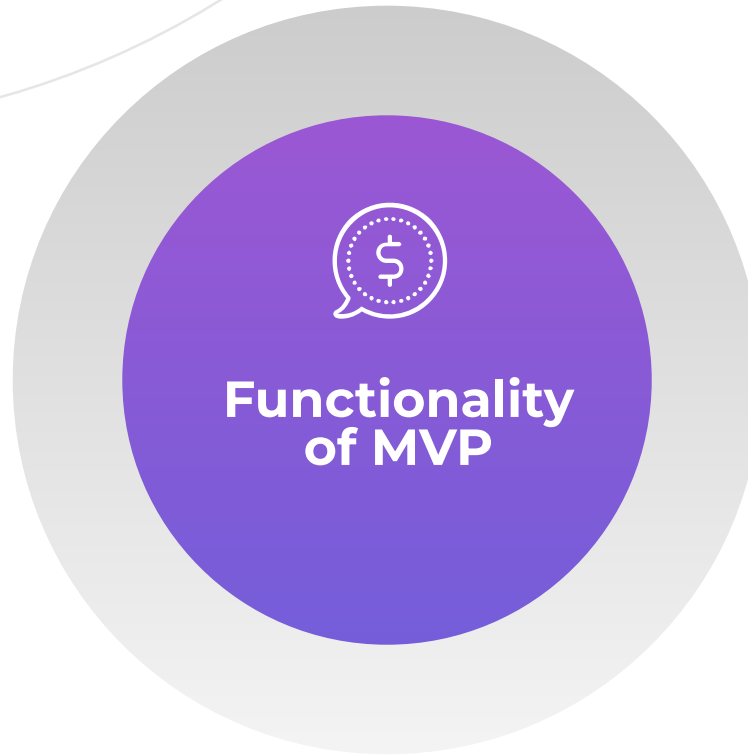
- Users can list their NFT tickets for resale, and others can buy them.

### **Secure**

- Buyers purchase and securely store these tickets in their digital wallets.

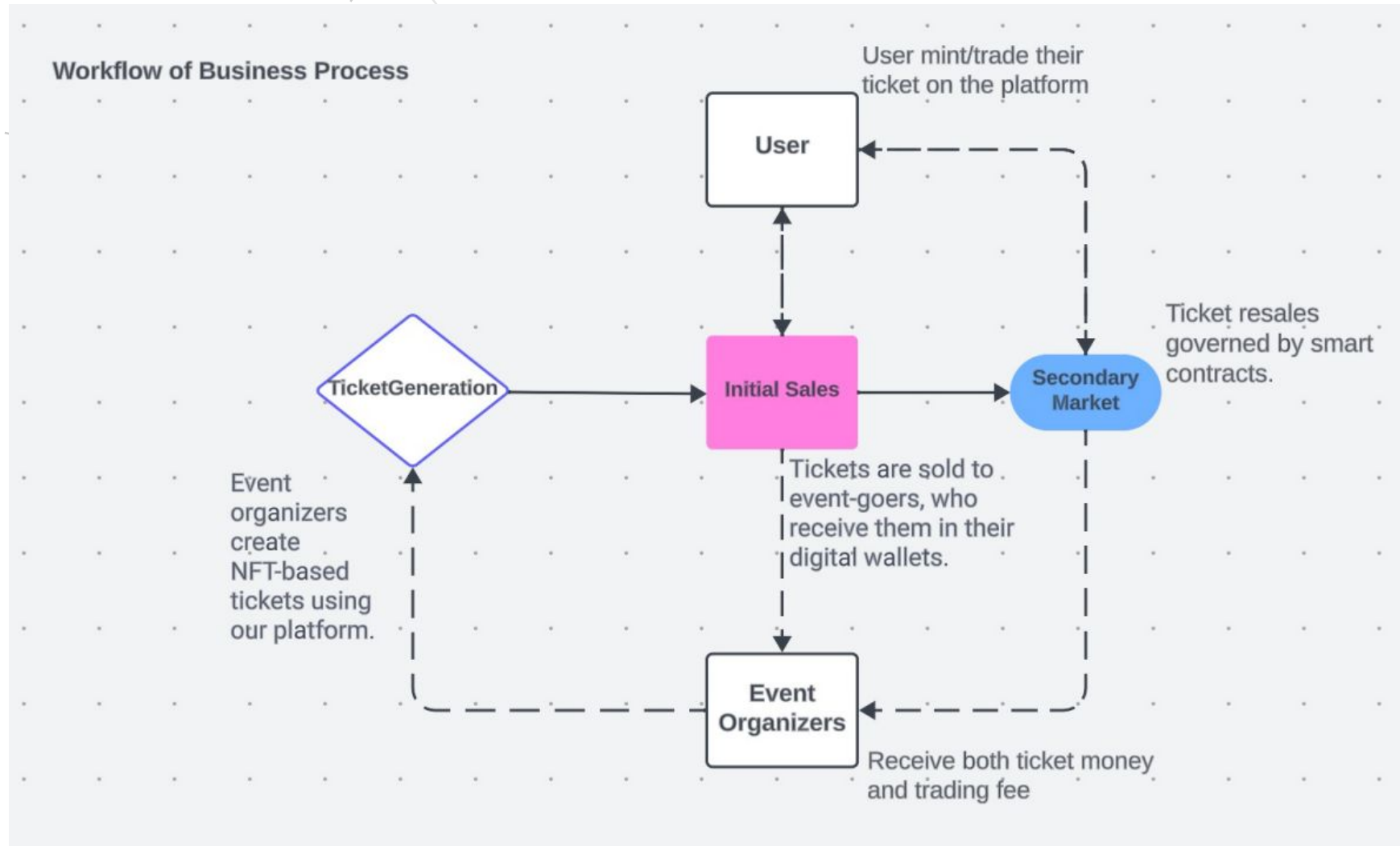
### **Validation**

- Validation at event entry:  
Event organizers can verify the ticket's authenticity using its unique NFT.

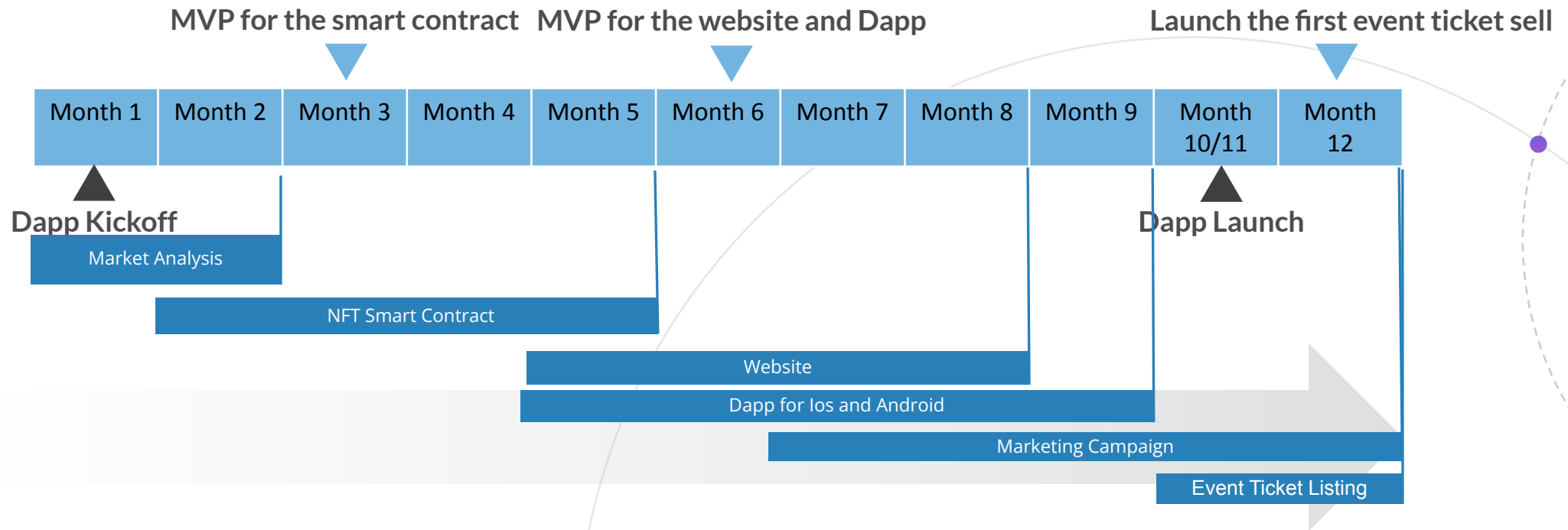




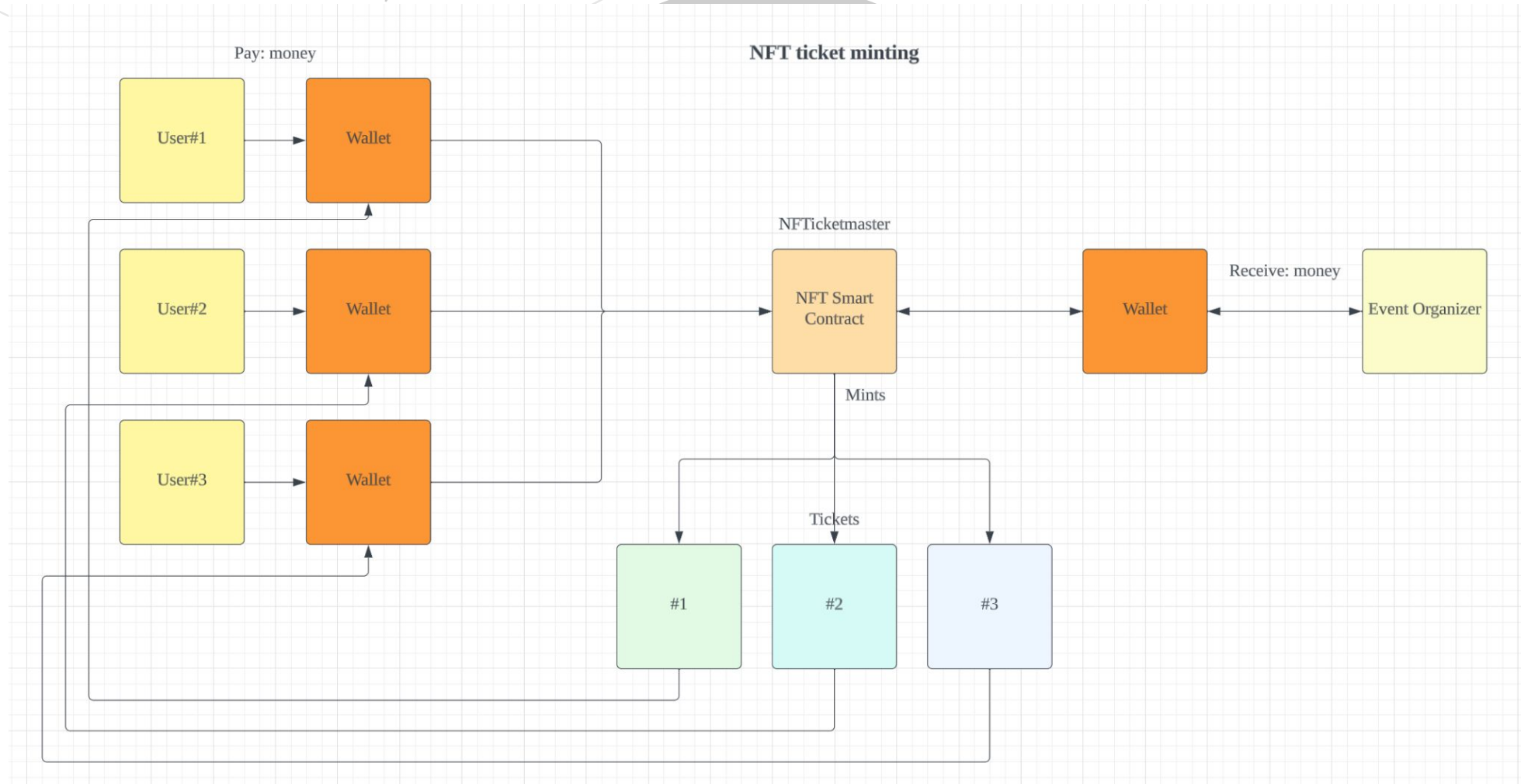
# Workflow of Business Process



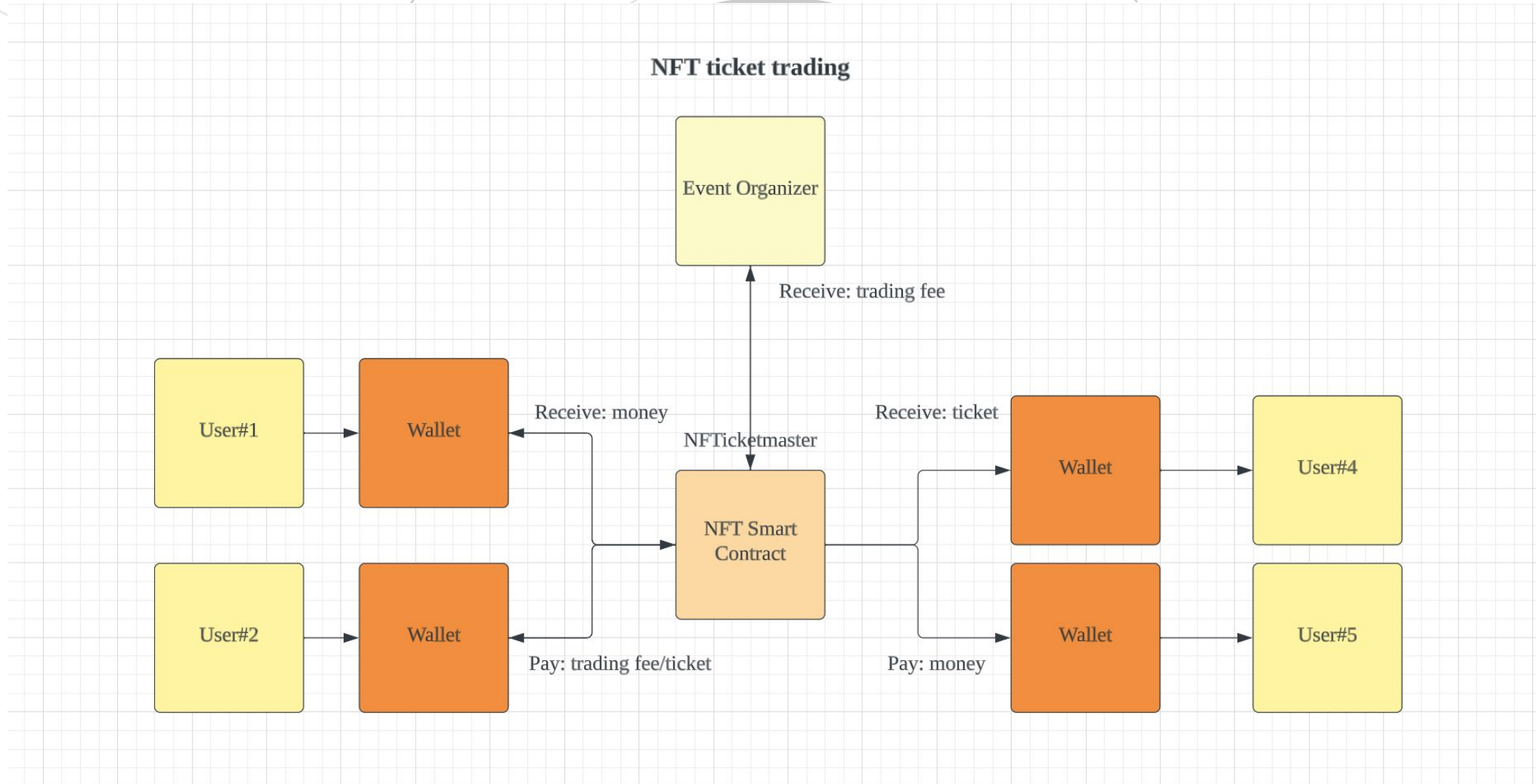
# Product Roadmap/Timeline



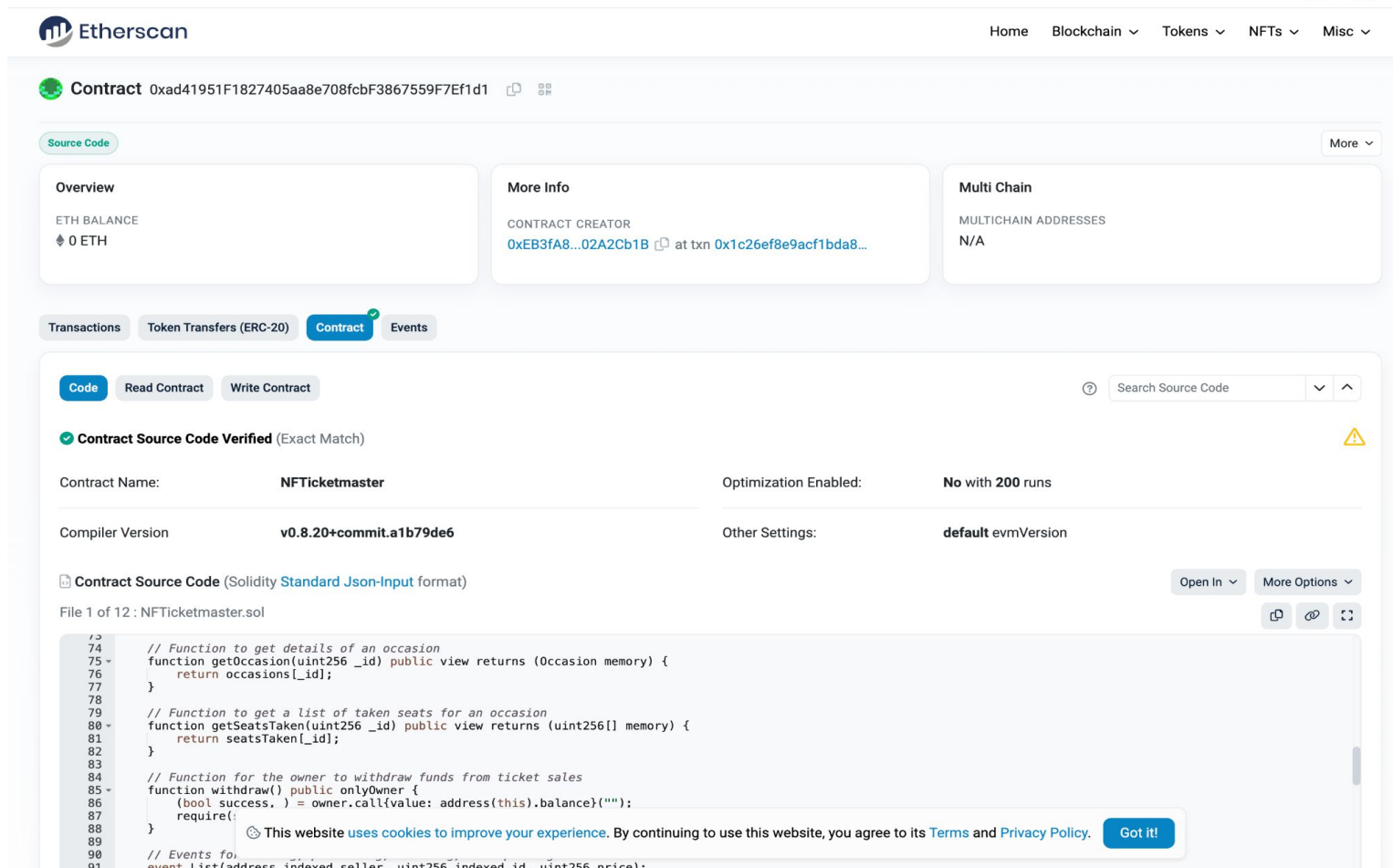
# Smart Contract Workflow: Ticket Minting



# Smart Contract Workflow: Ticket Trading



# Smart Contract



The screenshot shows the Etherscan interface for a smart contract. At the top, the Etherscan logo and navigation links (Home, Blockchain, Tokens, NFTs, Misc) are visible. The contract address is 0xad41951F1827405aa8e708fcbF3867559F7Ef1d1. The 'Source Code' tab is selected, showing a verified contract for 'NFTicketmaster'. The contract was compiled with Solidity v0.8.20+commit.a1b79de6. The source code is displayed in a text area, showing functions like getOccasion, getSeatsTaken, and withdraw. A cookie notice is visible at the bottom of the code area.

**Contract** 0xad41951F1827405aa8e708fcbF3867559F7Ef1d1

**Source Code** More

**Overview**  
ETH BALANCE  
0 ETH

**More Info**  
CONTRACT CREATOR  
0xEB3fA8...02A2Cb1B at txn 0x1c26ef8e9acf1bda8...

**Multi Chain**  
MULTICHAIN ADDRESSES  
N/A

Transactions Token Transfers (ERC-20) **Contract** Events

**Code** Read Contract Write Contract

Contract Source Code Verified (Exact Match)

Contract Name: **NFTicketmaster** Optimization Enabled: **No with 200 runs**

Compiler Version: **v0.8.20+commit.a1b79de6** Other Settings: **default evmVersion**

Contract Source Code (Solidity Standard Json-Input format) Open In More Options

File 1 of 12: NFTicketmaster.sol

```
74 // Function to get details of an occasion
75 function getOccasion(uint256 _id) public view returns (Occasion memory) {
76     return occasions[_id];
77 }
78
79 // Function to get a list of taken seats for an occasion
80 function getSeatsTaken(uint256 _id) public view returns (uint256[] memory) {
81     return seatsTaken[_id];
82 }
83
84 // Function for the owner to withdraw funds from ticket sales
85 function withdraw() public onlyOwner {
86     (bool success, ) = owner.call{value: address(this).balance}("");
87     require(success);
88 }
89
90 // Events for
91 event List(address indexed seller, uint256 indexed id, uint256 price);
```

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part of smart contract



The background is a dense, overlapping collage of US dollar bills and Bitcoin coins. The bills are mostly one-dollar bills, showing the portrait of George Washington and the text "UNITED STATES OF AMERICA" and "THIS NOTE IS LEGAL TENDER FOR ALL DEBTS, PUBLIC AND PRIVATE". The Bitcoin coins are gold-colored with the Bitcoin symbol (a stylized 'B' with two vertical lines) and the text "BITCOIN" and "DECENTRALIZED". A dashed white circle is superimposed over the collage, with two white dots at its top and bottom. The text "THANK YOU" is centered in the middle of the image in a white, sans-serif font.

THANK YOU



# Necessity in Blockchain

Authenticity  
Transparency  
Immutability  
Decentralization  
Smart Contracts

#1

## Authenticity and Ownership:

- NFTs ensure unique, verifiable tickets.
- Counterfeit tickets were eliminated.

#2

## Transparent Resale:

- Blockchain-enabled smart contracts for trusted reselling.
- Deters scalpers with gas fees.

#3

## Immutable History:

- Trackable ticket history (sales, resales).
- Added verification layer for buyers.