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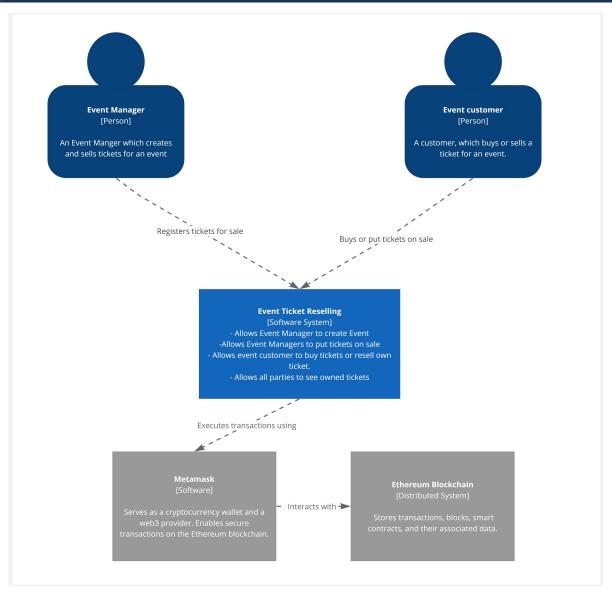
IDEA

Building a Opportunity to transparent ticket buy ticket as Mitigate selling and Non-Fungible scammers reselling platform Token (NFT) Guarantee that Proof to own the Proof that ticket ticket will be transferred after ticket is still valid buying (contract)

TECHSTACK / DESIGN DECISIONS

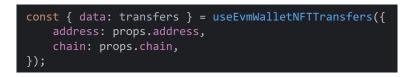


ARCHITECTURE



IMPLEMENTATION - APPLICATION







Use read/write methods from the contracts

```
const { data: listings } = useContractRead({
   address: exchangeContractAddress,
   abi: loadAbi(),
   functionName: 'getAllListings',
});
```

```
Vien

Deploy contracts onto the blockchain
```

```
const contractCreationTransactionId = await deployContract(client,
{
   abi: loadAbiNftContract(),
   bytecode: `0x${loadBytecodeNftContract()}`,
   args: [amount, name, abbreviation, exchangeContractAddress],
   account: address,
});
```

IMPLEMENTATION - CONTRACT

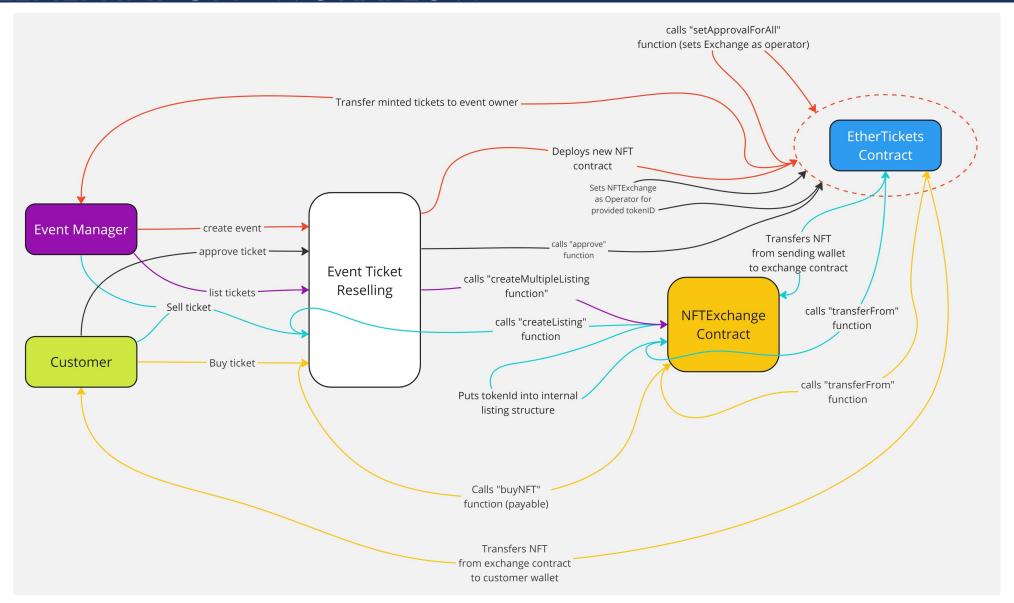
NFTContract "EtherTickets"

- Based on ERC721, ERC721Enumerable, ERC721Burnable and Ownable
- Minting of tickets
- Ownership transfers
- Source OpenZeppelin

Exchange "NFTExchange"

- Based on IERC721 and Ownable
- Used to sell Tickets (NFT's)
- Payment handling
- Source Hackermoon.com

IMPLEMENTATION - WORKFLOW



LIVE-DEMO

CONCLUSION

Further improvements

- Feature to validate tickets for customer/event entrance
- Include only our EtherTickets-NFTs in ticket view
- Include reference to further event informations, which are stored off-chain

Retrospective

- Overall fun project with good learning curve
- Idea was maybe to complex/big for this challenge task
- Using next.js frontend framework without prior knowledge was not a good idea
- Ticket reselling is not very user friendly (since you have two Metamask Pop-Ups), but we weren't able to implement Delegatecall in the contract properly



THANK YOU