

Bring Brains & Blockchain

12 and 13 march L'viv
Starts at 10:00 at Torfjana street, 4 L'viv.



Introduction.

CryptoTickets is the new way to distribute tickets via the blockchain and meanwhile controlling the possibility and profit margins for secondary vendors.

CryptoTickets operates on the Colored Coin protocol (<http://coloredcoins.org/>).

CryptoTickets can be build with usage of the API/SDK from Colu (<https://colu.co>). Colu claims to have an easy to use solution already. This could be a good starting point, for your kick-ass app.

Use case

Quest Pistols is organising a concert for 10,000 fans on a specific date, place and time. They only want's real fans to attend the concert. They do not want professional ticket vendors to make large profits by reselling the concert tickets and they do not want scammers to sell fake tickets to unsuspecting victims.

Quest Pistols does want that honest fans have the possibility to resell or donate the ticket to other real fans. The reseller should not be allowed to make a profit margin larger then 5% in this case. Quest Pistols also doesn't want an oligarch to sabotage the concert by buying all the tickets at once.



The Challenge

Build an easy to use ticketing system that meets the following requirements and can simulate the use case to win the **\$ 2500,-** in prize money:

- Usage of blockchain technology
- Usage of Colored Coin protocol
- Easy P2P transfer capabilities, without bitcoin knowledge or wallets
- Each asset is unique and authentic no matter how many resales
- No possibility for previous owner(s) to use asset
- Customize profit margin of secondary vendors
- Dashboard for organisers
- Ability to prove authentication for venue/organisers.



In short Quest Pistols want's to pre-set the initial price of the ticket, the profit margin of the reseller and the maximum amount of tickets that can be sold. The concert venue and Quest Pistols and their manager want a dashboard to see (in real time) how many tickets are sold, how many are available for reselling and how many fans already checked in the venue.

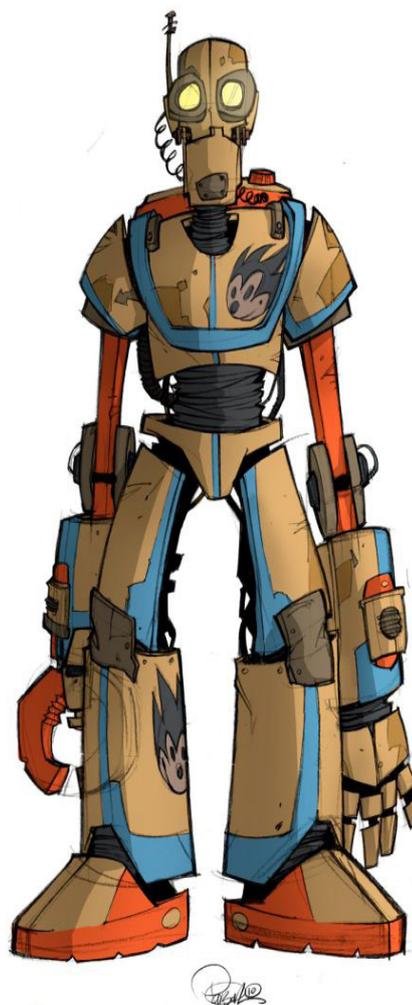
When entering the concert venue the authentic concert ticket is scanned by de venue from smartphone or paper (or a digital pin/key) of the fan. After the ticket is scanned by the venue or the concert has ended the ticket should be made useless. Fans are aware that the only guarantee for a real ticket is a purchase or repurchase via Crypto-tickets.

Tom and Maarten want to attend the concert with friends. Tom buys 6 tickets and Maarten buys 2 tickets online, by buying these tickets online they register themselves with their personal e-mail. After Tom and Maarten bought their tickets online, the concert was sold out very quickly.

Because Tom wasn't nice to his friends, three of them decided not to go. Tom want's to sell the extra tickets for 10% margin via Cryptotickets. If this doesn't work, he want's to sell the tickets for the maximum margin, which is dictated by Quest Pistols.

colu.

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Due to a surprise visit of his mother and brother, Maarten is looking for 2 extra concert tickets. His mother is a technical noob with no mobile phone. Because he knows authentic tickets can only be bought with Crypto-tickets he buys two tickets from Tom via Cryptotickets.

Just before the concert Tom is worried that his last ticket will not be sold. He prints out the code/key of the ticket and sells it on the street to fan Jos. Just while Jos is entering the concert venue, Tom's last ticket is sold via Cryptotickets to Stephan.

Stephan is entering the venue a bit later because he has to wash the dishes, but because he bought the ticket via Cryptoticket he's guaranteed to get access to the concert.