



Rovio Entertainment

How SOFIE enables us to explore DLT & IoT in gaming



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Gaming Pilot - What are we aiming to achieve?

Sofie Gaming pilot is *explorative*:

“We aim to identify and understand use cases for DLTs and IoT in gaming, and test the business opportunity”

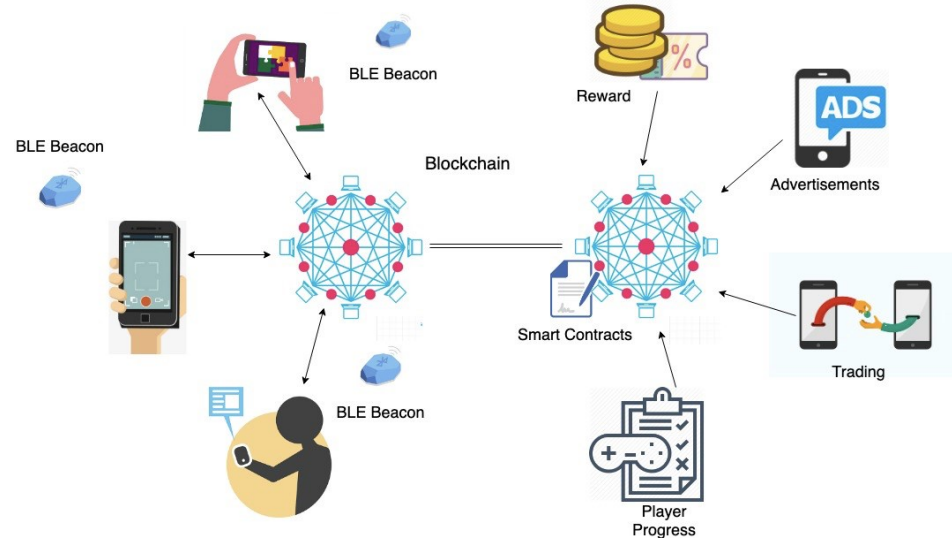


Could IoT mobile games be built on a distributed business platform?

We are exploring whether DLT technologies would make sense in (IoT and other) gaming.

Hypothesis: Location-based IoT games could gain from an open ecosystem of different actors with trust created through distributed ledger technologies. Actors involved:

- Providers of IoT beacons
- Game developers
- Players
- Points of Interest



Blockchain & IoT in Games: Potential use cases

- Cryptocurrencies as In-App coins if those become a mainstream payment method?
- In-app Assets e.g coins, vouchers, user-generated content
 - True ownership: trading on marketplace as the player likes
 - Sharing between multiple games
 - Preserving value outside a game
- IoT: more accurate indoor positioning
- IoT: Verifiable location in competitive games

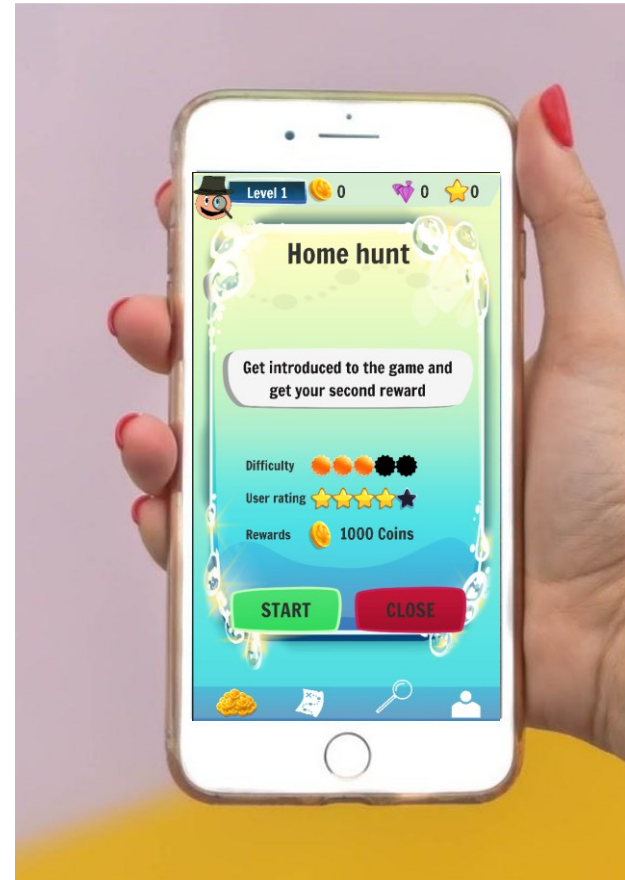
Scavenger Hunt prototype

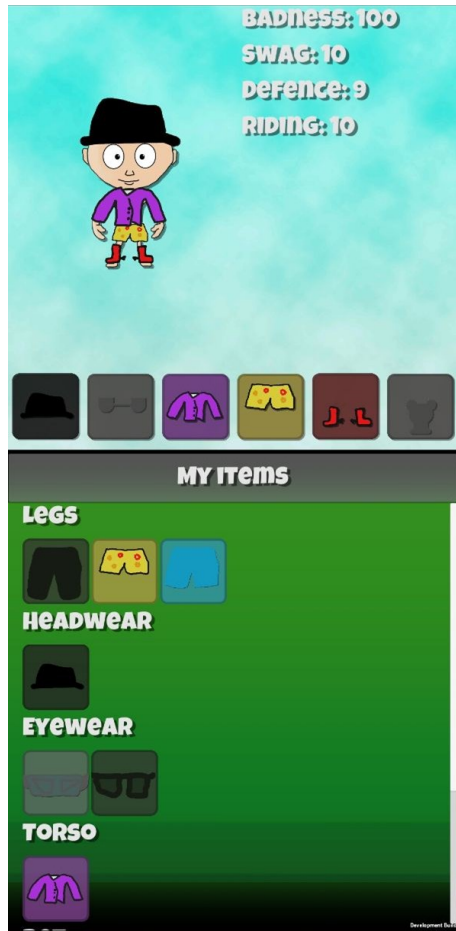
Use case: Scavenger Hunt prototype

A minimalistic location-based game prototype.

Imagine: a café creates a hunt inside their shop

- Rewards with real value to players.
 - Discount vouchers.
 - Coins to be used for power-ups or items in other games
- In return, POIs get visitors - business opportunity





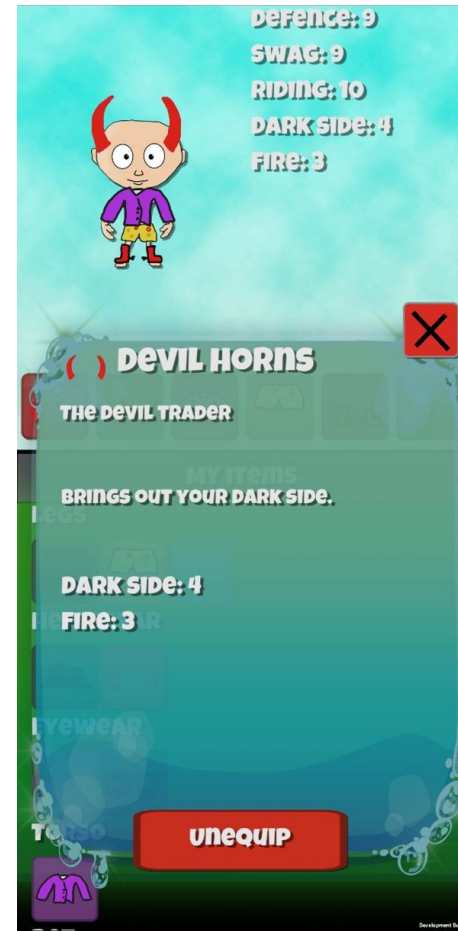
Original character



Start hunt for Devil
Horns



Win the reward



Equip in Blockmoji
management App

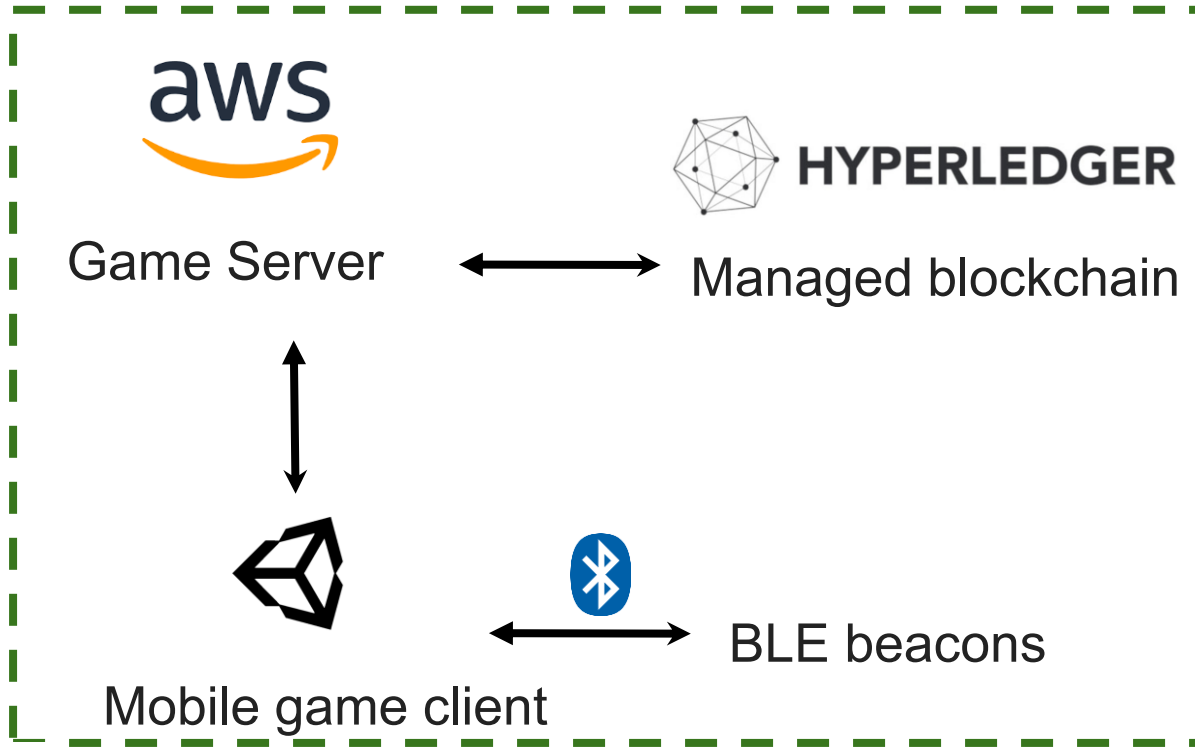
Scavenger Hunt architecture



ethereum

Public blockchain

Scavenger Hunt



SOFIE Interledger

Other apps,
such as
Blockmoji

Utilizing SOFIE Components

Component	Benefit to Gaming Pilot
Discovery and Provisioning	<ul style="list-style-type: none">● Take advantage of already deployed Web of Things (WoT)
Semantic Representation	<ul style="list-style-type: none">● Service interoperability
Interledger	<ul style="list-style-type: none">● Benefits of specific ledgers:<ol style="list-style-type: none">1. Hyperledger Fabric for throughput and privacy2. Ethereum for security and traceability.
Marketplace	<ul style="list-style-type: none">● In-app asset have real world value

Q&A

Thank you!

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SOFIE website: <https://www.sofie-iot.eu/>
SOFIE framework: <https://github.com/SOFIE-project>