

The necessary precondition to be able to partake in RMC, be it minting of a new case or buying a Non-Fungible Case (NFC) cryptocollectible, is that one would need an Ethereum wallet address. This address would be the unique identifier for the ownership of a non-fungible digital item as well as allowing blockchain transactions. For the above mentioned purpose, on the browser, RMC relies on the already established wallet provider Metamask. On mobile, RMC uses a custom implementation of such a wallet specifically developed for the purpose of commodifying a case.

TOOLSET

Truffle/Ganache/Infura

Truffle is an open-source development environment, testing framework and asset pipeline for blockchains using the EVM. It allows smart contract compilation, linking, deployment, and binary management (Truffle 2018). Additionally, it ships with Mocha which is a JS framework for writing tests for smart contracts which allowed various tests to evaluate the resilience of the contracts including edge cases.

Ganache is a personal Blockchain for Ethereum development that removes the need to download and operate a whole blockchain. While being developed it was used to provide fake Ethereum addresses, and fake Ether for testing purposes as well as keeping track of blockchain transactions.

Infura is a core infrastructure pillar of Ethereum and IPFS and is enabling decentralized applications to connect to corresponding nodes through its APIs (Infura 2018).

Web3

Web3 is a collection of libraries which allow one to interact with a local or remote ethereum node, using a HTTP or IPC connection (Read the Docs 2018).

A client library for the IPFS HTTP API, implemented in JS. This client library implements the interface-ipfs-core enabling applications to change between