

CRPL: Architecture

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1 .NET service architecture

Auth service user authentication.

1. Auth

Wallet service user ethereum wallet/account management.

1. CRUD

Issuing service registering new copyrights to the blockchain.

1. Register

Verification service verifying the authenticity and originality of a work.

1. VerifyWork
2. Hash
3. SignWork (maybe in the issuing)

General query service querying the whole system mainly used for UI, copyright index and search.

1. Get all
2. Search
3. Get my work
4. Get work

Rights management service modification, transfer of ownership.

1. Transfer ownership
2. UnRegister
3. ConvertRights

Dispute service filing and resolving copyright disputes.

1. FileDispute
2. Resolve
3. Cancel

Contract management deployment and monitoring of systems contracts

Ping service work "use" tracking

1. Ping
2. GetPings

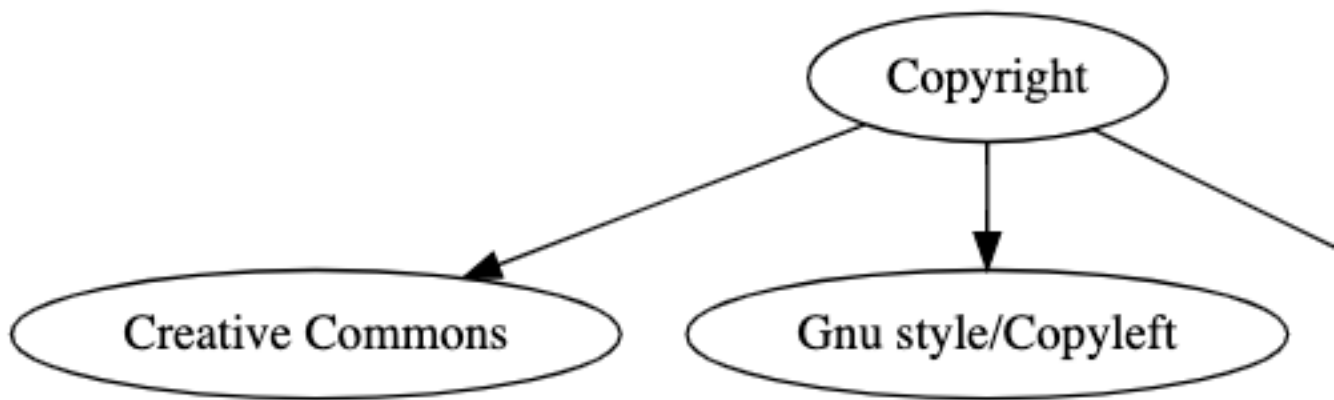
Payment distribution service

2 API

- /user
 1. /auth
 2. /wallet
- /rights
 1. /register
 2. /unregister
 3. /modify
 4. /transfer
- /q
 1. /get/#id

- 2. /get/all
 - 3. /get/me
 - 4. /search
- /dispute
 - 1. /file
 - 2. /resolve
 - 3. /cancel
- /p

3 Copyright smart contract



4 Database

5 Angular