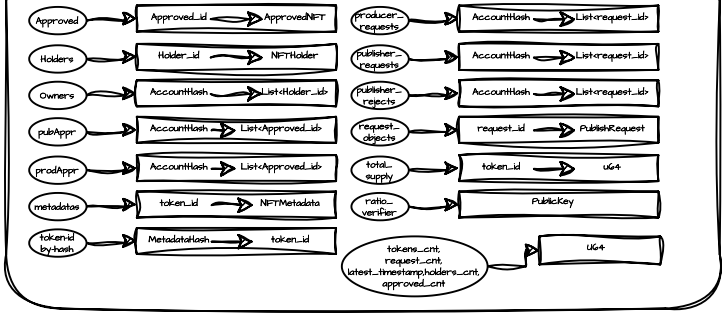
Droplinked Casper Contract

Storage Model

Variables



Objects

```
pub struct NftMetadata{
    pub name: String,
    pub token_uri: String,
    pub checksum: String,
    pub price : U256
}
```

```
pub struct NFTHolder {
    pub remaining_amount : u64,
    pub amount : u64,
    pub token_id : u64
}
```

```
pub struct ApprovedNFT {
    pub holder_id : u64,
    pub amount : u64,
    pub owneraccount : AccountHash,
    pub publisheraccount : AccountHash,
    pub token_id : u64,
    pub percentage : u8
}
```

```
pub struct PublishRequest{
    pub holder_id : u64,
    pub amount : u64,
    pub percentage : u8,
    pub producer : AccountHash,
    pub publisher : AccountHash,
}
```

Functionalities (EntryPoints)

```
mint ( metadata String  amount U64  recipient Key  price U256 ): U64
```

Mints the `amount` of tokens with given `metadata` and `price` into `recipient` account. prices are in USD!

```
publish_request ( producer-account Key  amount U64  holder_id U64  comission U8 ): U64
```

Sends an publish_request, from a publisher (who calls this function) to a producer (`producer_account`), it aims a holder with `holder_id` with a specific `comission`

```
cancel_request ( request_id U64 ): Unit
```

Cancels the request that was sent by a publisher, which's request_id is equal to passed `request_id`. Only the publisher can run this.

```
approve ( request_id U64 ): U64
```

Approves the request with given `request_id`. Only the producer of that product can run this function.

```
disapprove ( amount U64  approved_id U64  publisher-account Key ): Unit
```

Return back, the `amount` from a `approved_nft`, from `publisher`'s account. this can be called only from the producer account.

```
buy ( amount U64  purse_addr Key  approved_id U64  current_price_timestamp String
      signature String ): Unit
```

Buy `amount` of tokens from a `approved_nft` with `approved_id` into your account, provided the purse_address which contains CSPR tokens, and a current price of CSPR along with timestamp, signed by droplinked's private key.