APTOS

Intellectual Property Exchange Protocol

Web3 X AI

By: WhiteWalkers

What is `**Problem**`?

- **Creator**

- **Government**

Smart
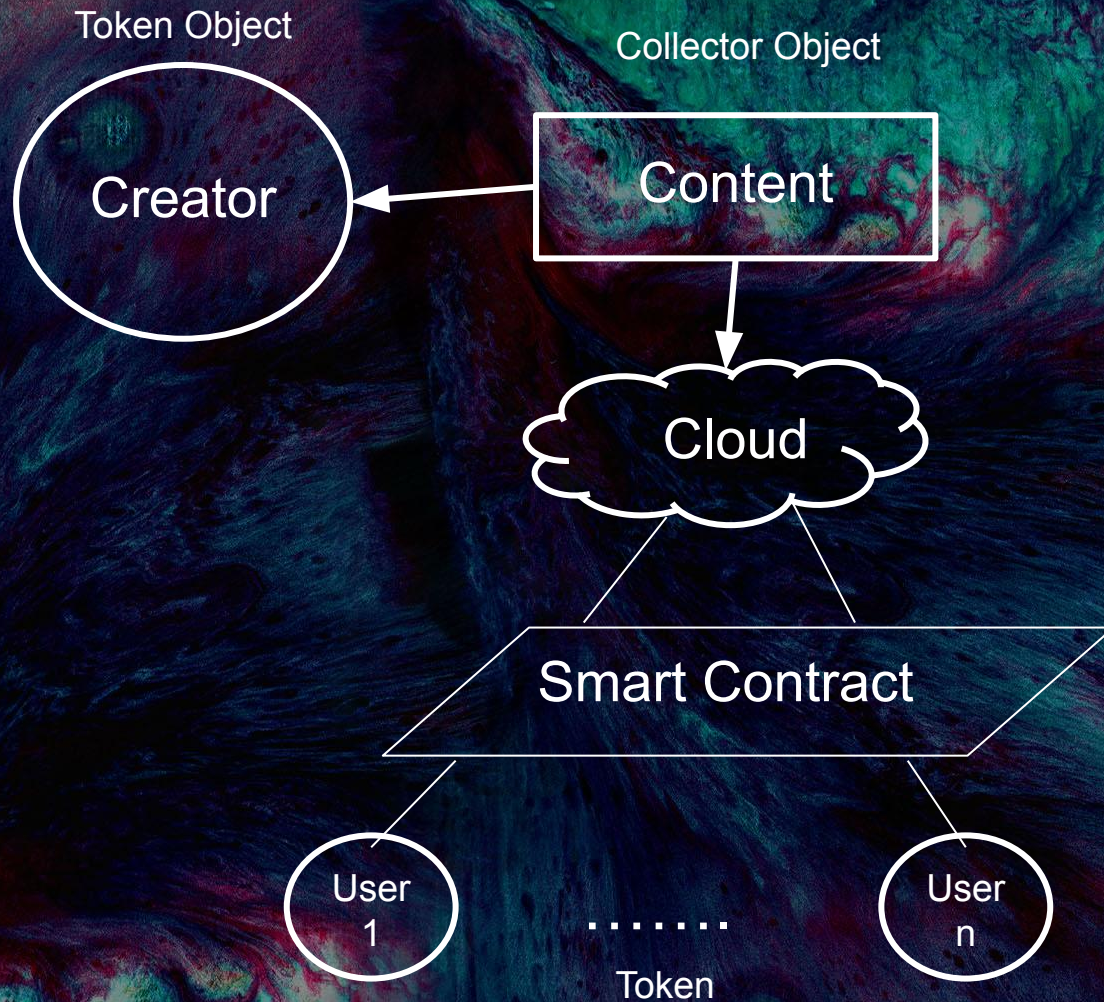# Contract

X APTOS X Token

Web3 X AI

Solution Phase

- **Random User**

- **AI Model**

Phase I: Random User

System Architecture

Token Object

Collector Object

Creator

Content

Cloud

Smart Contract

User 1

....

User n

Token

aptoslabs.com

```
// key transfer
    entry public fun transfer_key(admin: &signer, receiver: address, key: Object<ipxkey>, price_apt: u64, price: u64) acquires ipxConfig, ipxkey,
        is_admin(admin);

        if(!account::exists_at(receiver)) {
            aptos_account::create_account(receiver);
        };

        let key_obj = borrow_global_mut<ipxkey>(object::object_address(&key));
        let linear_transfer_ref = object::generate_linear_transfer_ref(&key_obj.transfer_ref);
        object::transfer_with_ref(linear_transfer_ref, receiver);

        let content_obj = borrow_global<ipxcontent>(object::object_address(&key_obj.content));

        content::emit_content<ipxkeyTransfercontent>(
            &mut key_obj.transfer_content,
            ipxkeyTransfercontent {
                key_address: object::object_address(&key),
                receiver_address: receiver,
                price_apt,
                price,
                currency: content_obj.currency,
                date: timestamp::now_microseconds()
            }
        );
    }
```

```
// redeem key
    entry public fun redeem_key(admin: &signer, key: Object<ipxkey>) acquires ipxConfig, ipxkey {
        is_admin(admin);

        let key_obj = borrow_global_mut<ipxkey>(object::object_address(&key));

        let owner_addr = object::owner(key);
        let attended_by = &mut key_obj.attended_by;
        option::fill(attended_by, owner_addr);
        key_obj.attended_at = timestamp::now_microseconds();
    }
```

Author creates an Account

NAME	COLLECTION	STORE	VERSION	AMOUNT
Transactions		Coins	Tokens	Resources	>
SHAkespeare William Potato …	William Shakespeare		0	1
ORfedf3e5e-5507-48ed-a9a9-e…	Alain de Botton		0	1
OR1375fd1e-46a1-4367-9ec2-e…	Author		0	1

Create Access

VERSION	TYPE ⓘ	TIMESTAMP	SENDER	SENT TO	FUNCTION	AMOUNT
260555943	⇄	09/13/2023 09:05:55	IPX	IPX	management::access_token	0 APT Gas 0.0015675 APT
260540216	⇄	09/13/2023 08:42:12	IPX	IPX	management::access_token	0 APT Gas 0.0015675 APT

Transfer Access

260579534	⇄	13/09/2023 08:07:34	IPX	IPX	management::transfer_access	0 APT Gas 0.000012 APT

Intellectual Property Exchange

Upload Intellectual Property

Enter your IP content here

Upload

Uploaded Intellectual Property

- **ID:** s1spr73q
  Content: asdjashj
  Timestamp: 13/09/2023, 09:38:18
- **ID:** ch9dtime
  Content: asdjashjsd,asd';sakd
  Timestamp: 13/09/2023, 09:38:20
- **ID:** yluvjypt
  Content: nlkashdnlasndas;djsald nsakldneadmab;d;
  Timestamp: 13/09/2023, 10:26:46
- **ID:** wcnh3s61
  Content: Ashish
  Timestamp: 13/09/2023, 10:27:57
- **ID:** fi2evb5r
  Content: Ashish
  Timestamp: 13/09/2023, 10:30:34
- **ID:** s48wpt4z
  Content: Ashishasdasd,,j
  Timestamp: 13/09/2023, 10:30:37

Your Incentives

Future Development

Phase II: AI Model Training Algo

Web3 X AI

Future Trends X Use Case

- **Authentication of Creator**

- **Distribution Channel Changing their Infrastructure & process**

- **Government Policy**

THANK YOU!