Substrate

River

Kitties-003

Owning Multiple Kitties

https://substrate.dev/substrate-collectables-workshop/#/2/owning-multiple-kitties

目的：解决的问题

1- 同一个人可以创建多个Kitty

1- Tuple

Tuple一个数据结构（,）类似一个二维数组

让我们来思考一个问题，如何构建一个朋友列表：
1- 一个人有多少个朋友?
2- 第N个朋友是谁?

```
MyFriendsArray get(my_friends_array): map (T::AccountId, u32) => T::AccountId;
MyFriendsCount get(my_friends_count): map T::AccountId => u32;
```

```
MyFriendsArray[AccountId][Index] -> AccountId
MyFriendsArray[AccountId].length()
```

You turn

1- Storage

```
// ACTION: Rename this to `OwnedKittiesArray`/`kitty_of_owner_by_index`
//         Have the key be a tuple of (T::AccountId, u64)
OwnedKitty get(kitty_of_owner): map T::AccountId => T::Hash;
// ACTION: Add a new storage item `OwnedKittiesCount` which is a `map` from `T::AccountId` to `u64`
// ACTION: Add a new storage item `OwnedKittiesIndex` which is a `map` from `T::Hash` to `u64`
```

2- Module

```
// ACTION: Generate variables `owned_kitty_count` and `new_owned_kitty_count`
//         similar to `all_kitties_count` below


// ACTION: Update this to maintain the state of our new storage items
<OwnedKitty<T>>::insert(&sender, random_hash);
```

异常信息

```
 <OwnedKittiesArray<T>>::insert((&sender, owned_kitties_count),random_hash);
   |             ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ the trait
`core::borrow::Borrow<(<T as srml_system::Trait>::AccountId, u64)>` is not
implemented for `(&<T as srml_system::Trait>::AccountId, u64)`
```

视频备注

元组概念解释的比较少，可以查询Rust中的Tuple

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Thanks