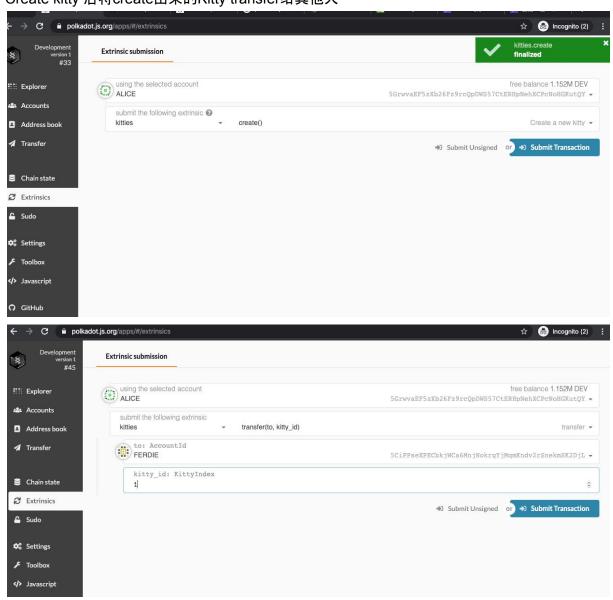
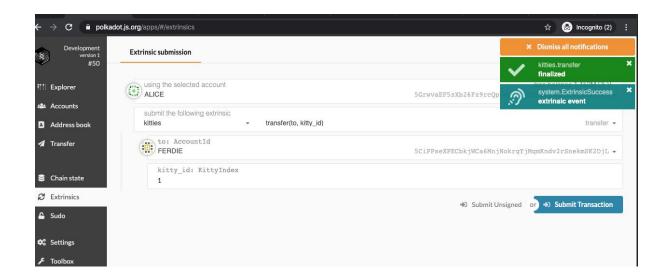
#### 作业:

## 完成transfer

# 首先在https://polkadot.js.org/apps/

在settings developers 页面下,类型json加个 KittyIndex: u32 Create kitty 后将create出来的Kitty transfer给其他人





#### 完成insert owned kitty

## 设计加密猫模块V4:交易所:1.给自己的小猫设定价钱 2.购买小猫

#### 定价

- 1.验证user
- 2.验证需要定价的猫是否存在
- 3. 验证这只猫是否是用户的
- 4.修改链上猫的价格

```
*/
fn set_price(origin, kitty_id: T::Hash, new_price: T::Balance) -> Result {
    1.验证user
    let sender = ensure_signed(origin)?;
    2.验证需要定价的猫是否存在
    ensure!(<Kitties<T>>>::exists(kitty_id), "This cat does not exist");

    3.验证这只猫是否是用户的
    let owner = Self::owner_of(kitty_id).ok_or("No owner for this kitty")?;
    ensure!(owner == sender, "You do not own this cat");

4.修改链上猫的价格
    let mut kitty = Self::kitty(kitty_id);
    kitty.price = new price;
```

```
<Kitties<T>>::insert(kitty id, kitty);
Ok(())
买猫
1.验证user
2.验证要买的猫是否存在
3. 验证猫的所有权,不能是自己的
4.验证猫有价
5.转账
6.transfer
fn buy kitty(origin, kitty id: T::Hash, max price: T::Balance) -> Result {
1.验证user
let sender = ensure_signed(origin)?;
2.验证要买的猫是否存在
ensure!(<Kitties<T>>::exists(kitty_id), "This cat does not exist");
3.验证猫的所有权,不能是自己的
let owner = Self::owner_of(kitty_id).ok_or("No owner for this kitty")?;
ensure!(owner != sender, "You can't buy your own cat");
let mut kitty = Self::kitty(kitty id);
4.验证猫有价
let kitty_price = kitty.price;
ensure!(!kitty_price.is_zero(), "The cat you want to buy is not for
sale");
5.转账
//<balances::Module<T>>::make_transfer(&sender, &owner, kitty_price)?;
6.transfer
Self::transfer_from(owner.clone(), sender.clone(), kitty_id);
Ok(())
```

#### 额外作业

利用polkadot.js开发一个命令行软件:创建小猫