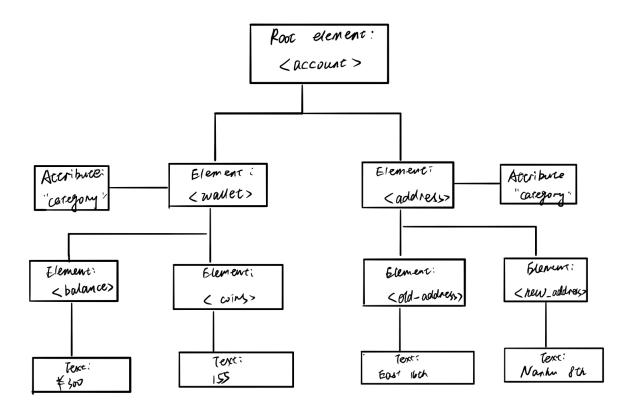
## Account

## Yao Xiao

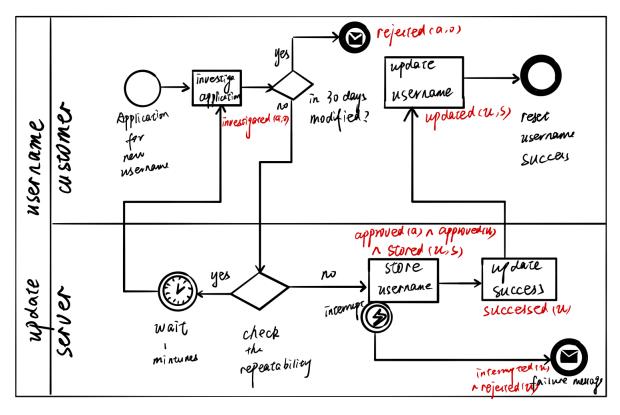
December 8, 2019

1. XML for partial page(wallet,address):

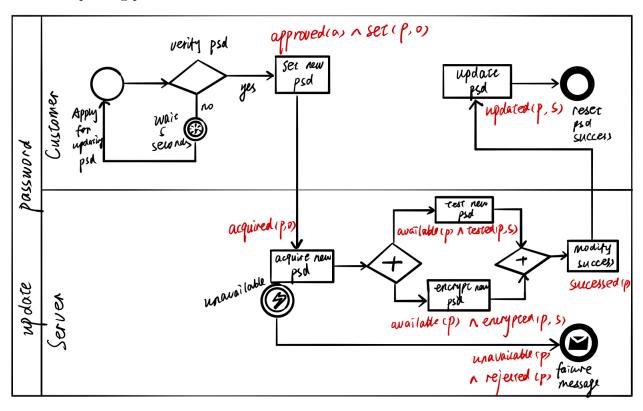
2. XML tree for partial page(wallet,address):



3. BPMN for updating username with cumulative effects:



- (a) Objects of interests: Application a, Username u, Outcome o, Status s.
- (b) States:
  - · Application rejected or approved rejected(a), approved(a)
  - · Username check approved or rejected, update successed- approved(u), rejected(u), successed(u)
- (c) Relationships between objects:
  - · Application investigated with an outcome investigated(a,o)
  - · Username stored with an status stored(u,s)
  - · Username updated with an stauts updated(u,s)
  - · Usernmae received with an status received(u,s)
- (d) Cumulative effects of tasks:
  - 1. Reject Application:  $investigated(a,o) \land rejected(a)$
  - 2. Store Username: investigated(a,o)  $\land$  approved(a)  $\land$  approved(u)  $\land$  stored(u,s)
  - 3. Reject Update Username: investigated(a,o)  $\land$  approved(a)  $\land$  approved)(u)  $\land$  interrupted(u)  $\land$  rejected(u)
  - 4. Update Success:  $investigated(a,o) \land approved(a) \land approved(u) \land stored(u,s) \land successed(u)$
  - 5. Update Username: investigated(a,o)  $\land$  approved(a)  $\land$  approved(u)  $\land$  stored(u,s)  $\land$  successed(u)  $\land$  updated(u,s)
- 4. BPMN for updating password with cumulative effects



(a) Objects of interests: Application a, Password p, Outcome o, Status s.

## (b) States:

- · Application rejected or approved rejected(a), approved(a)
- · Password availabled or unavailabled, updated rejected and successed availabled(p), unavailabled(p), rejected(p), successed(p)
- (c) Relationships between objects:
  - · Password set with an outcome set(p,o)
  - · Password acquired with an outcome acquired(p,o)
  - · Password tested with an status tested(p,s)
  - · Password encrypted with an status encrypted(p,s)
  - · Password updated with an status updated(p,s)

.

## (d) Cumulative effects of tasks:

- 1. Set Password: approved(a)  $\land$  set(p,o)
- 2. Acquire Password: approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)
- 3. Reject Update Password: approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)  $\land$  unavailabled(p)  $\land$  rejected(p)
- 4. Test Password: approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)  $\land$  availabled(p)  $\land$  tested(p,s)
- 5. Encrypted Password: approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)  $\land$  availabled(p)  $\land$  encrypted(p,s)
- 6. Modify Password Success: approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)  $\land$  (availabled(p)  $\land$  tested(p,s)  $\land$  (availabled(p)  $\land$  encrypted(p,s)))  $\land$  successed(p)
- 7. Update Password : approved(a)  $\land$  set(p,o)  $\land$  acquired(p,o)  $\land$  (availabled(p)  $\land$  tested(p,s)  $\land$  (availabled(p)  $\land$  encrypted(p,s)))  $\land$  successed(p)  $\land$  updated(p,s)