Owner

Login

Advanced

```
Take        View
out         rec.
            check
            availability
```

User

Login ←Redirect→ Register Advanced

Logout:
redirect   Redirect

Advanced → Check eligibility

Main page

```
Buy         Claim
View
record
```

Oracle API

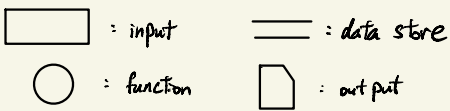
TO - DO

R   17/11

- S/W Design (Architecture, UI, Data structure, UML & high-level DFD)

- Frontend M (Bootstrap & ReactJS/ Vue.js)

(Discuss on 21/11)   Backend M (GO lang & MongoDB [if necessary]

Solidity   R

Blockchain R (Ganache / hyperledger)

- Owner page

Legend

- ▭ : input
- ◯ : function
- ▤ : data store
- ▢ : output

① < Wallet addr, airline Date, time, policy price >

② < Verified wallet addr date + time + airline # >

Insurer

User → Registration : Wallet no + pw
Registration → **User** : Wallet not + pw

User → Login : Wallet no, password
User → Login : Wallet no, password

Login → **Error msg** : Error msg

Login → : Verified user wallet addr

Policy ID or Wallet addr

Wallet addr

Claim result

Claim result msg

Insurance quotation

Date, time, Airline, # persons, Price of tickets

①

Buy insurance

< ①, policy ID >

Address, token

User wallet

Policies info ①

View policies

Accept
(1) Policy ID ORAND
(2) Wallet #

< Policy #, ② >

Policy # or ②

Claim

< Date, time, airline, delay status >

API

Blockchain

< ①, policy ID >

< policy ID, updated claim status = "claimed" >