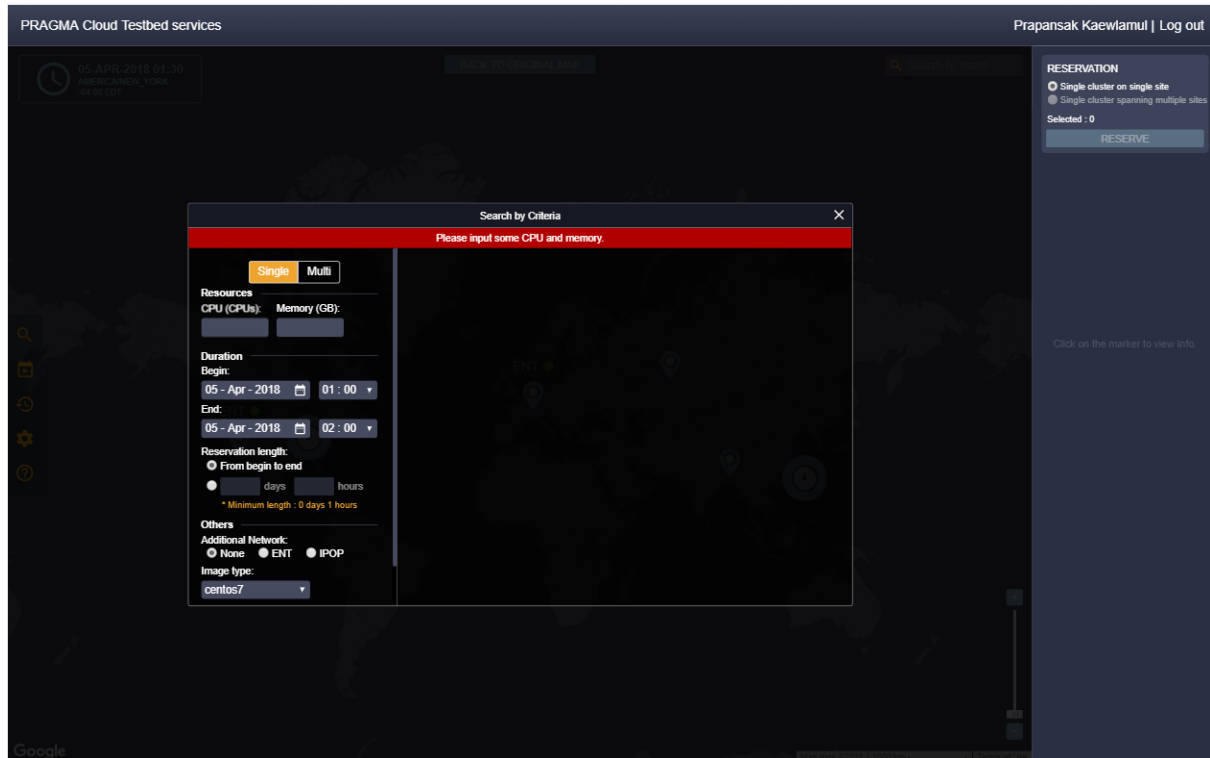


# Fix by previous meeting

I change the color of error to more bright.



# Reservation flow from search result

I design flow of reservation that connected with the search result.

PRAGMA Cloud Testbed services

Prapansak Kaewlamul | Log out

04-APR-2018 15:17  
AMERICA/NEW YORK  
GMT-07:00

SEARCH BY CRITERIA

RESERVE

RESERVATION

☒ Single cluster on single site  
☐ Single cluster spanning multiple sites

Selected : 0

RESERVE

Search by Criteria

Single

Mult

Resources

Number of sites:  
Any

CPU (CPUs):  
220

Memory (GB):  
256

\*Resources are distributed evenly among sites unless specified otherwise.

Duration

Begin:  
04 - Apr - 2018 15 : 00

End:  
04 - Apr - 2018 16 : 00

Reservation length:  
☒ From begin to end  
☐ days hours  
\* Minimum length : 0 days 1 hours

Others

Additional Network:  
☒ None ☐ ENT ☐ IPOP

Click on the marker to view info.

PRAGMA Cloud Testbed services

Prapansak Kaewlamul | Log out

04-APR-2018 15:17  
AMERICA/NEW YORK  
GMT-07:00

SEARCH BY CRITERIA

RESERVE

RESERVATION

☒ Single cluster on single site  
☐ Single cluster spanning multiple sites

Selected : 0

RESERVE

Search by Criteria

CPU (CPUs):  
220

Memory (GB):  
256

\*Resources are distributed evenly among sites unless specified otherwise.

Duration

Begin:  
04 - Apr - 2018 15 : 00

End:  
04 - Apr - 2018 16 : 00

Reservation length:  
☒ From begin to end  
☐ days hours  
\* Minimum length : 0 days 1 hours

Others

Additional Network:  
☒ None ☐ ENT ☐ IPOP

Image type:  
centos7

SEARCH

Search result (1):

Begin : 04-APR-2018 15:00  
End : 04-APR-2018 16:00  
Reservation length : 1 hours 0 minutes  
Additional network : None  
Image type : centos7

Click on site's name for more description.

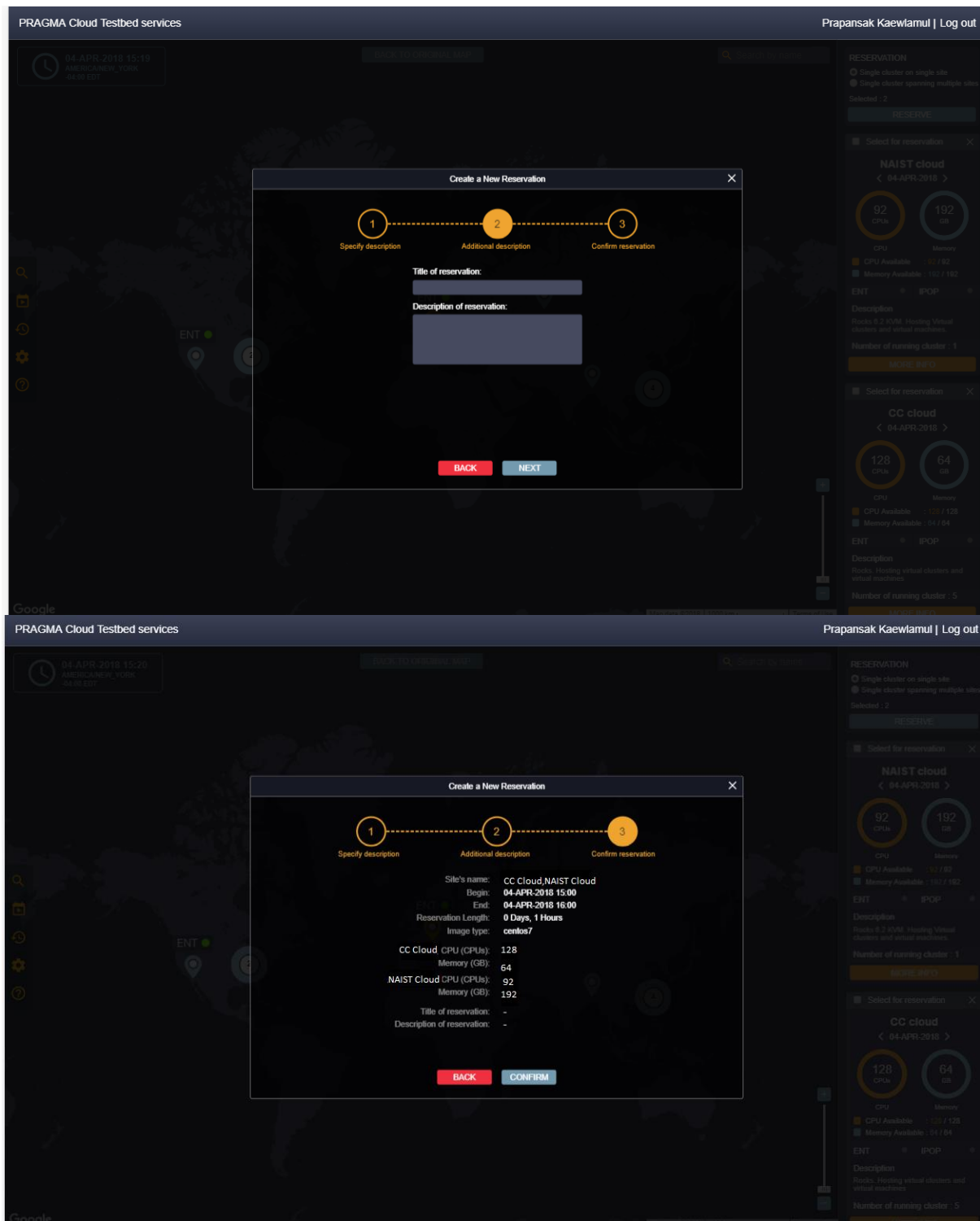
CC cloud x NAIST cloud

2018-03-15 13:00:00 to 2018-03-15 13:00:00

CPU : 220 (128/92) free / total 220/220 CPUs CPU speed : 2.9 GHz  
Memory : 256 GB (64/192) free / total 256/256 GB Network : ENT (1 Mbps)

Click on the marker to view info.





Now, it is not successful. I have some bug to sending the variable from a component to another component but it will fix soon as possible.

# Backend

Input

Req 1.

No. of sites = Any, CPU=20, Mem=40, Additional Net=None, Image=ROCK, Time begin=8:00, Time end=10:00, Duration=From begin to end

In code

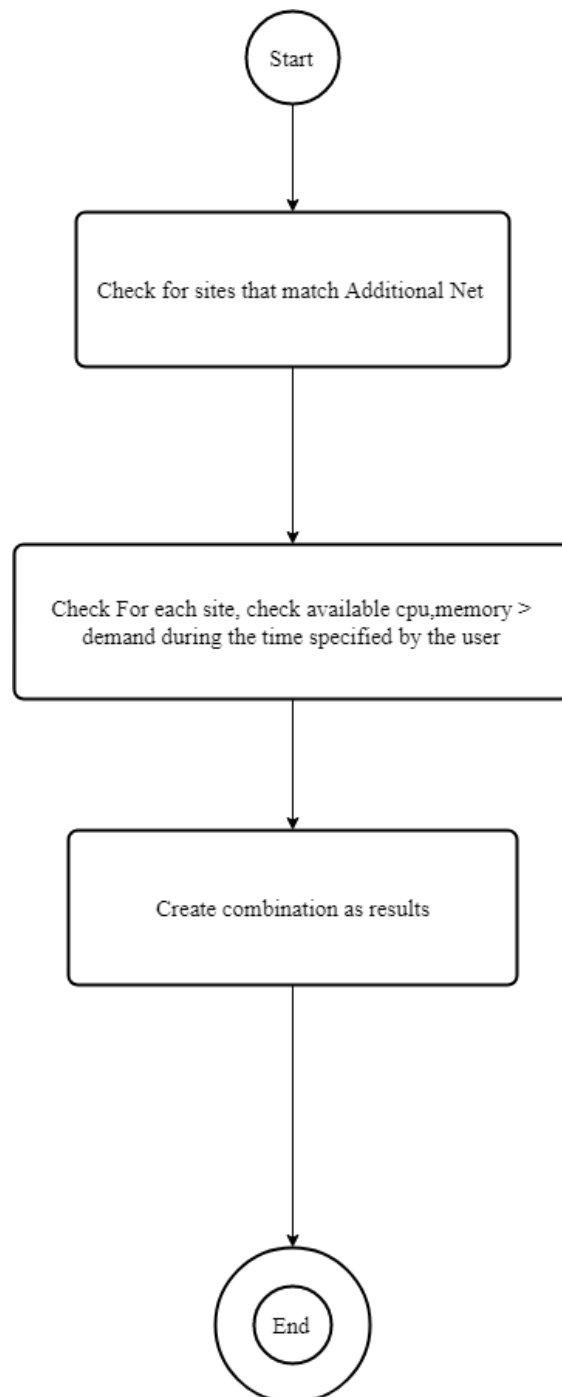
```
###variable from front-end###
RESOURCES = "20,40"
CONNECTION_TYPE = 'Any'
IMAGE_TYPE = 'Rock'
BEGIN = '08:00'
END = '10:00'
ALL_PERIOD = True
DAYS = 0
HOURS = 0
numsite = 0
#####
```

```

output (expect)
return = {
  amount:1
  result_type: "result"
  Mutisites:array[
    {
      CPU:{
        site1: 1 //id
        total1:20
        available1:10
        site2:2
        total2:16
        available2:8
      }
      memory:{
        site1: 1
        total1:40
        available1:20

        site2: 2
        total2:32
        available2:16
      }
      connection_type:array[
        {
          name: "None"
        }
      ]
      imagetype:[
        {
          name:"ROCK"
        }
      ]
      time:{
        begin:8:00
        end:10:00
      }
    }
  ]
  username : pasit
}

```



start to examine the basics of the imaginary and imaginary time (6hr). When the site has an imagetype and the time is right. The site is crossed to check the number of cpu. Memory is highest before memory. The remaining cpu is now checked to be fit or greater than the user requirement divided by the smallest multi-site possible. Once the result is returned, it returns to main and into the json. To send the front to the information to show the results. In the code section Also, the information provided is not provided by the frontend. The information and details of that part is taken from the requirement that the exported output is not perfect because the cross function is very complex, it takes a long time to resolve.

In the edit section, I got the Search.py section to get two instances of single site. The mutation rate can be determined by the number of sites coming from the front end.

```
if numsite == 1:
    sites = siteManager.getSites(resAmount=resourcesAmt,connectionType=CONNECTION_TYPE, imageType=IMAGE_TYPE, begin=
else if numsite >1:
    sites1 = siteManager.getMutisites(resAmount=resourcesAmt,connectionType=CONNECTION_TYPE, imageType=IMAGE_TYPE, b
```

The Sitemanager.py section adds the getMutisites function that will perform the above flow, which is similar to the existing getsite function. It matches the conditions to match the matching site.

```
def getMutisites(self,resAmount=None,begin=None,end=None,allPeriod=True,days=0,hours=0,connectionType=None,
#for search with criteria
hours = int(hours)
days = int(days)
result = []
resultM = []
conAndImgMatch = []

self.__db = Database()
if self.__db.connect():
    try:
        self.__db.lock({'site':'READ' , 'schedule':'READ'})
        self.__sites = self.getAllSites(self.__db)
        for s in self.__sites:
```

In the Resource section, the site has been adapted for use with the getmutisite function but does not affect other files and functions.