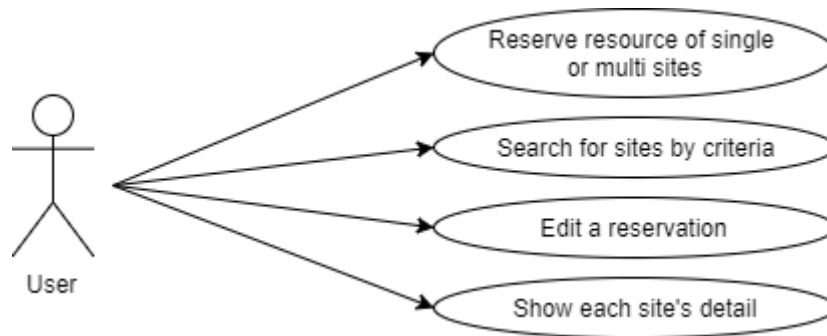


Task Analysis



Use case diagram

I make 3 groups of users and pick a people who is an agent for each group. In addition I make a persona and write scenario for Task analysis. (link : <https://app.xtensio.com/folio/0l6ce4xg>)

1. First group is represent for users that rarely have computer skill. In addition they never used to use Cloud. The Persona image below is example people in this group.

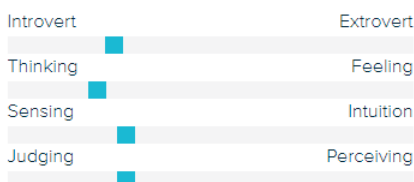
Jonathan John



"Time and tide wait for no man"

Age: 34
Work: Biological scientist
Family: Single
Location: Bangkok, Thailand
Character: Thinking

Personality



Goals

- He want to reserve the Cloud resource for the big data.

Frustrations

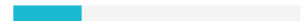
- He don't understands and don't used Cloud before.
- The system can't find the site that enough resource.

Bio

He is Biological scientist and want to reserve the Cloud resource for calculate the big data with specific program. He used to uses it with his computer but it take a long time. Others scientist recommend him to use Cloud for it but he never used it before.

Skill

Computer and Technolog



2. Second group is represent for users that fluent computer skill and used to use Cloud. The Persona image below is example people in this group.

Saotomi haru



Goals

- She want to reserve the Site that she want.

Skill

Computer and Technology

Frustrations

- The system can't sort by performance or distance.
- The system can't recommend the site.

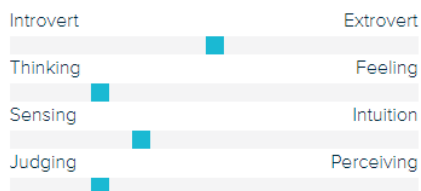
"Process is more important than the result"

Age: 31
Work: Computer Scientist
Family: Married
Location: Bangkok, Thailand
Character: High technology

Bio


She often uses Cloud for calculate the big data and used to uses Cloud. She want to reserve the Site that she want but it isn't enough the resource, so she want the cluster and it has the Site that she want too.

Personality



3. Last group is represent for users that fluent computer skill but never used to use Cloud. The Persona image below is example people in this group.

Benjamat kongkunnatum



"Technology push human's life forward."

Age: 27
Work: Student
Family: Single
Location: Bangkok, Bangkok
Character: Dlligent

Goals

- She want to customize the Cloud.
- She want to reserve heterogeneous cluster in several way.

Frustrations

- Can't customize.
- Never use Cloud computing before.

Skill

Computer and Technology

Bio

She is a student and want to use Cloud. In addition she want to customized by condition for her project. Her project is the measuring performance of Cloud cluster in several way

Personality

Introvert	Extrovert
Thinking	Feeling
Sensing	Intuition
Judging	Perceiving

After I make 3 groups and 3 persona, I simulate the situation from each use case and analysis each step.

Reserve resource of single or multi sites			
Select single or multi sites that they want.	Set time for reserve site.	Check with scheduler on criteria.	Success or unsuccess reservation.
1. If don't have any site has enough resource? - Suggest the multi-site. 2. If they want to set CPU each site on multi-site?	1. How do they do if they don't know how long of process? - Reserve by start date and end date or can expand after.	1. If the site that they want unavailable how do they do? - Suggest other sites.	1. If it is unsuccess? - Show error and suggest contact or Q&A.

Search for sites by criteria		
Select resource that they want.	Set time for search site.	Show results of search.
1. If they want search only single or multi sites? - We will set single site default for better performance but can select multi-sites or multi-sites only.	1. They can select start date and end date or time of process. - If they search by time of process they can sort by date. 2. If they want reserve any time but as soon as possible.	1. If it don't has result that match with criteria? 2. If they want to sort result by performance or energy saving? 3. What is data that support the decision?

Edit a reservation			
Select the reservation that they want to edit.	Edit a reservation	Check with scheduler on criteria.	Success or unsuccess edit reservation.
1. If they have many reservation so can't find it.	1. What is data can edit? - Date and some resource? 2. If multi-site reservation what is data can edit?	1. If the reservation date that they want to expand is not available. - Send error.	1. If it is unsuccess? - Show error and suggest contact or Q&A. 2. How do they know? - Show result of reservation.

Show each site's detail	
Select a site that want to know.	Show side's detail.
1. How do they find site that want to know? - Search or select site from map.	1. What side's detail will show?