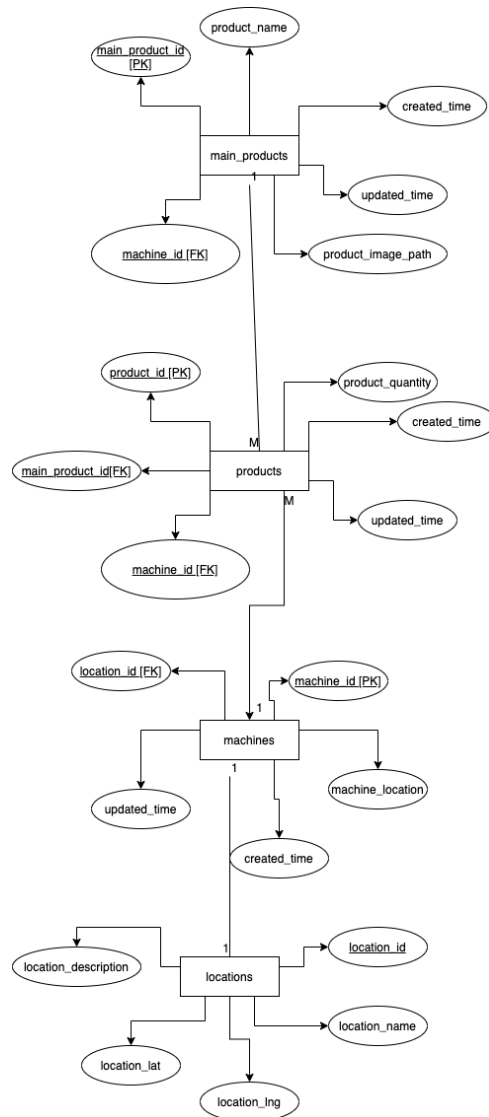


Drinking vending machine

Database design :

- I will design database relation with ER diagram
- My er diagram will show my database relation. I designed from your assignment. Customer can buy products from vending machine.
- Vending machine need to more than 1 so I separate vending machine by location and give their relation is one-to-one → one machine need located one location.
- Product from vending machine can have a brand or product image so I create main product for give product can implement then I give their relation is one-to-many
- At the end one machine need to have more one product so I give their relation is one-to-many



User interface and system design :


1. I created customer buy product feature on drinking vending machine. On the application you can select location that you want to buy product and then you can buy product that you need.

Drinking Vending


คณะวิทยาศาสตร์ประยุกต์

Select location


Drinking Vending




Raspberry juice
Product total quantity : 9
Product quantity - 0 +
[Buy](#)




Lemon juice
Product total quantity : 29
Product quantity - 0 +
[Buy](#)




Grape huice
Product total quantity : 30
Product quantity - 0 +
[Buy](#)



Coffee
Product total quantity : 30
Product quantity - 0 +
[Buy](#)

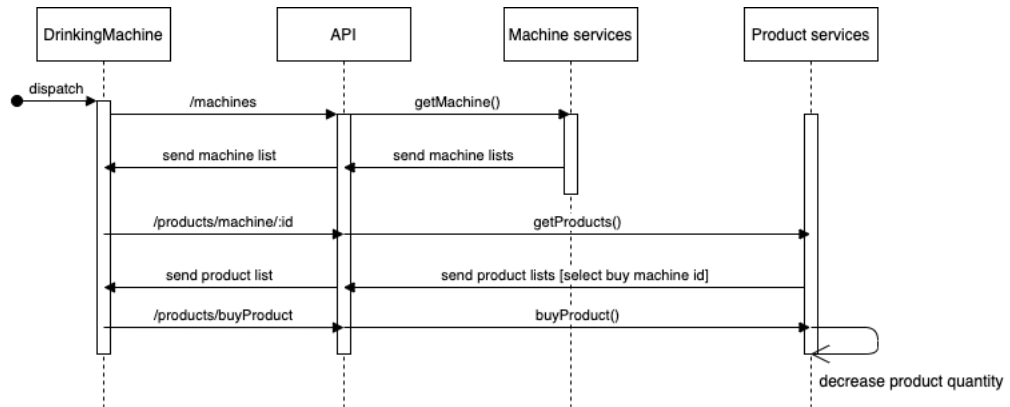


Orange juice
Product total quantity : 30
Product quantity - 0 +
[Buy](#)

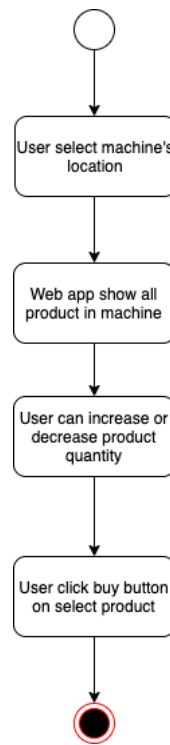


Milk
Product total quantity : 30
Product quantity - 0 +
[Buy](#)



Sequence diagram : drinking vending machine



Activity diagram : drinking vending machine



2. On the system admin, Admin can see machine location (lat, lng position).

 Admin system Notifications 2 

Machine Location



Id	Name	Lng	Lat
1	คณะวิทยาศาสตร์ประยุกต์	100.51518095160624	13.827460516456306
2	คณะวิศวกรรมศาสตร์	100.51350186308787	13.8217405430339
3	สำนักหอสมุดกลาง	100.5141241355174	13.819932983742094


Product

คณะวิทยาศาสตร์ประยุกต์ คณะวิศวกรรมศาสตร์ สำนักหอสมุดกลาง


Id	Name	Quantity
1	Raspberry juice	9
2	Lemon juice	29
3	Grape huice	30
4	Coffee	30
5	Orange juice	30
6	Milk	30

3. If any product quantity less than 10. System will send notifications on the website.

 Admin system Notifications 2 



product name : Raspberry juice
location: คณะวิทยาศาสตร์ประยุกต์
quantity: 9



product name : Milk
location: สำนักหอสมุดกลาง
quantity: 9

Machine Location

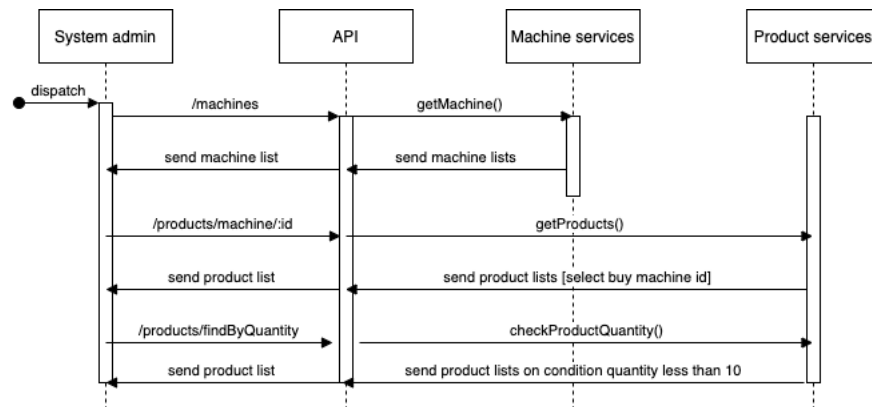
Id	Name	Lng	Lat
1	คณะวิทยาศาสตร์ประยุกต์	100.51518095160624	13.827460516456306
2	คณะวิศวกรรมศาสตร์	100.51350186308787	13.8217405430339
3	สำนักหอสมุดกลาง	100.5141241355174	13.819932983742094

Product

คณะวิทยาศาสตร์ประยุกต์ คณะวิศวกรรมศาสตร์ สำนักหอสมุดกลาง

Id	Name	Quantity
1	Raspberry juice	9
2	Lemon juice	29
3	Grape huice	30
4	Coffee	30
5	Orange juice	30
6	Milk	30

Sequence diagram : Admin system



Activity diagram : Admin system

