

SYSTEM MODELING

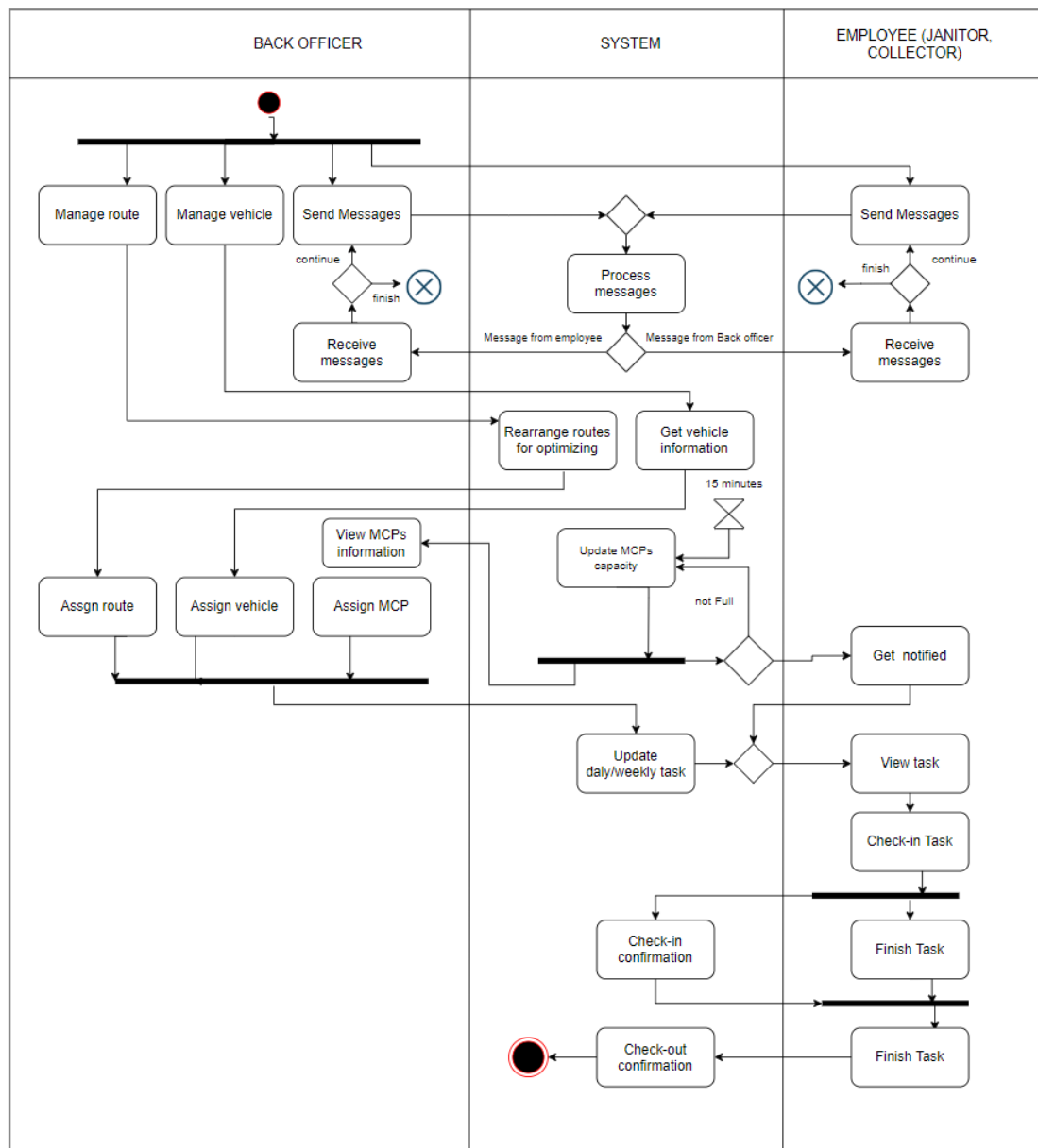
Update - 8 April, 2023



Contents

1	Activity diagram to capture the business process between systems and the stakeholders in the Task Assignment module	2
2	Proposal a conceptual solution for the route planning task and draw a sequence diagram to illustrate it	3
2.0.1	Script	3
2.1	Sequence diagram	4
3	Draw a class diagram of the Task Assignment module as comprehensive as possible	5
4	Develop MVP 1 as UI	6

1 Activity diagram to capture the business process between systems and the stakeholders in the Task Assignment module



Hình 1: Activity diagram

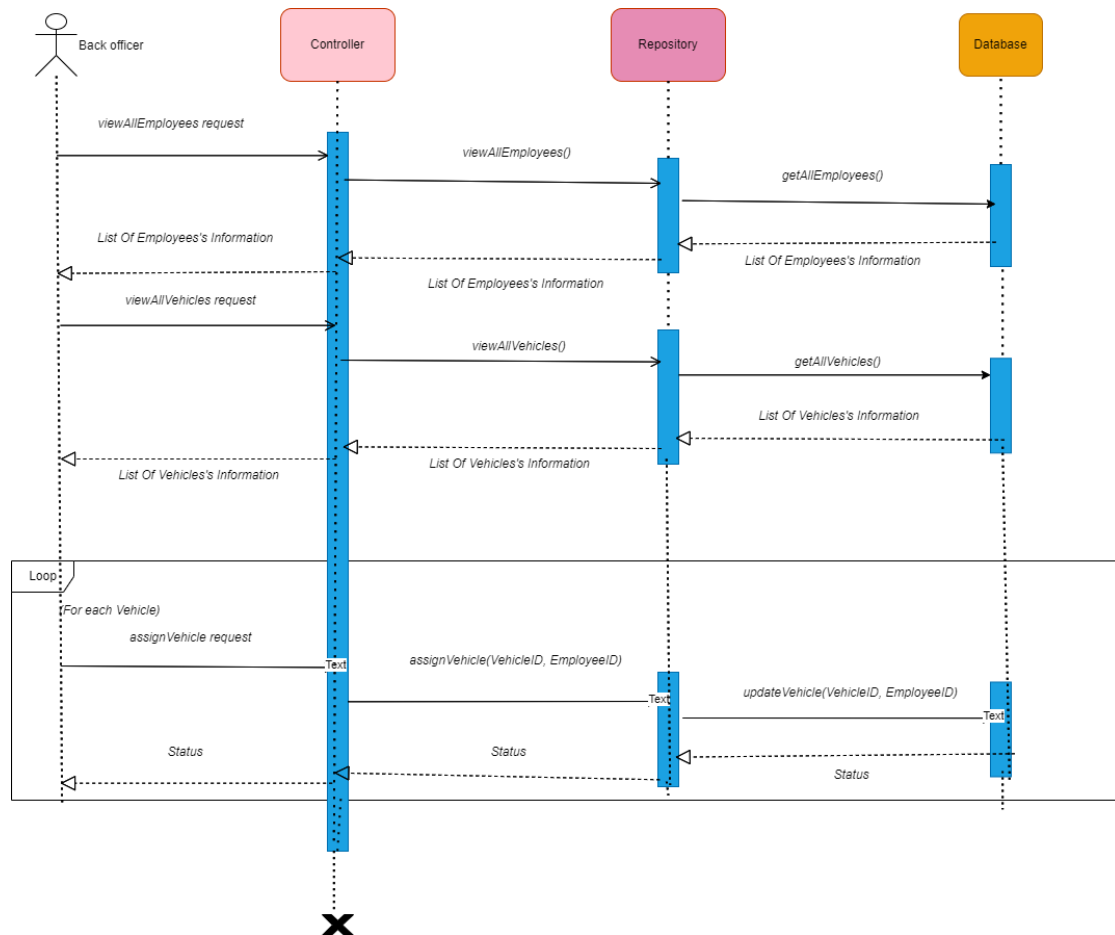


2 Proposal a conceptual solution for the route planning task and draw a sequence diagram to illustrate it

2.0.1 Script

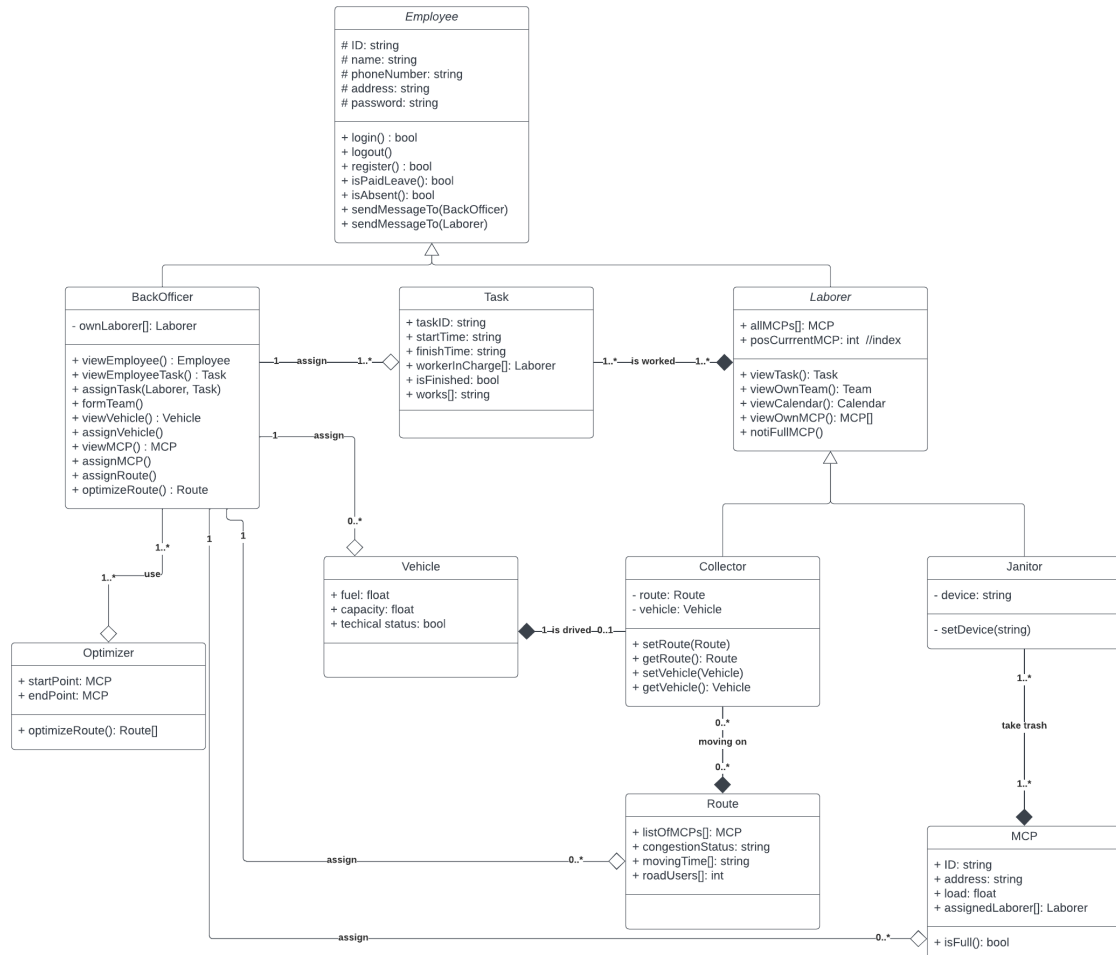
1. There are 1 authors:
 - The back officer, who will assign the vehicle for each collector.
2. There are 3 classes:
 - Controller: Get request from Back Officer and response back to them.
 - Repository: Have access to database in order to retrieve or save the appropriate information.
 - Database: where stores all data about vehicles, employees,...
3. Workflow:
 - Firstly, the back officer will request the information of vehicles and employees from Controller class.
 - Controller receives request and connect to Repository by using View() function
 - After that, Repository will access directly to Database and retrieve appropriate information and then return that data to Controller.
 - Next, Controller will responses that required data to Back Officer
 - To assign the vehicles, the Back Officer will request "assignVehicle" to Controller and same as above method, Controller will return status to Back Officer.

2.1 Sequence diagram



Hình 2: Sequence diagram

3 Draw a class diagram of the Task Assignment module as comprehensive as possible

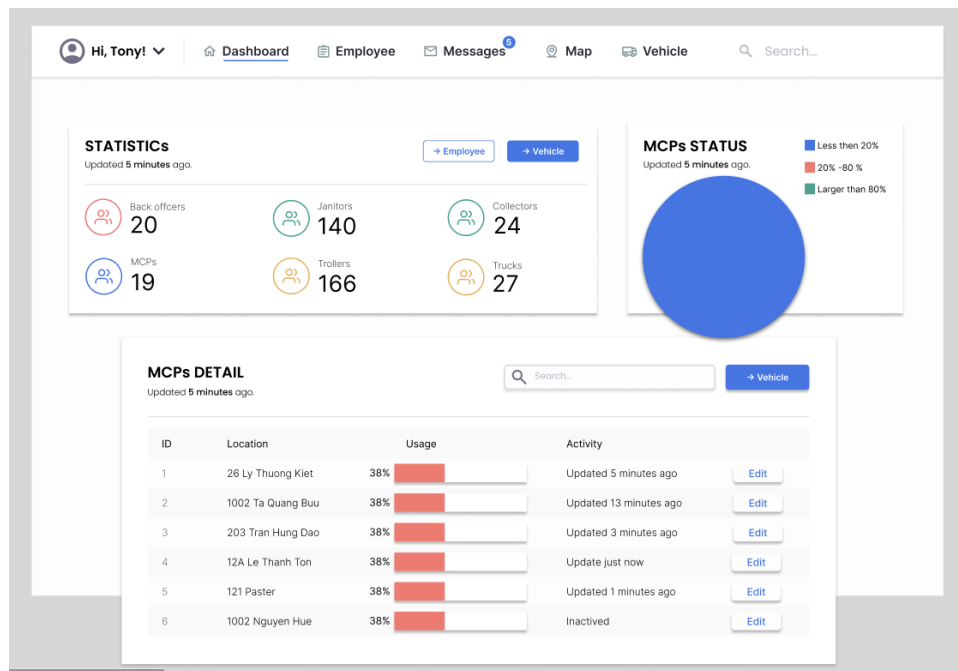


Hình 3: Class diagram

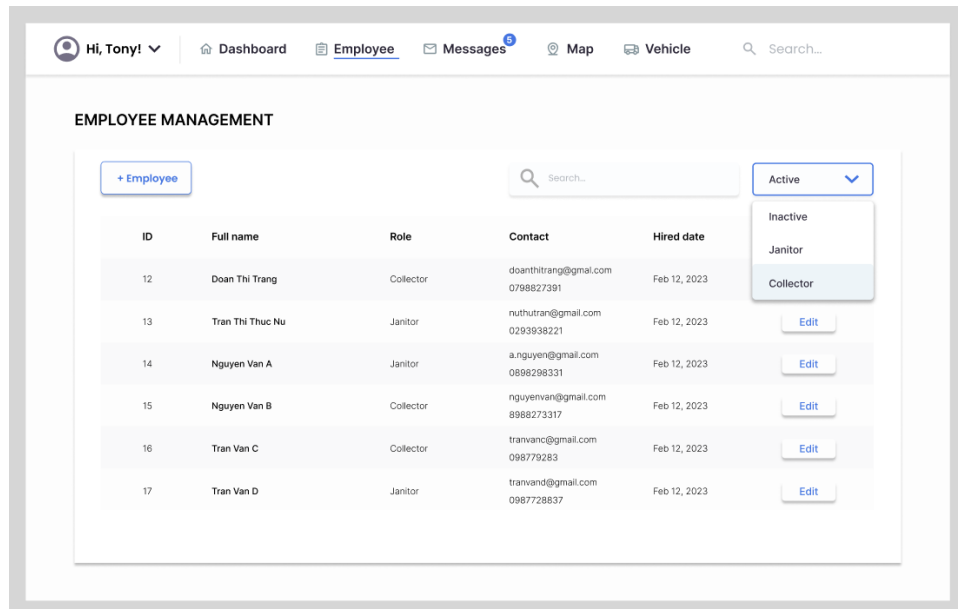


4 Develop MVP 1 as UI

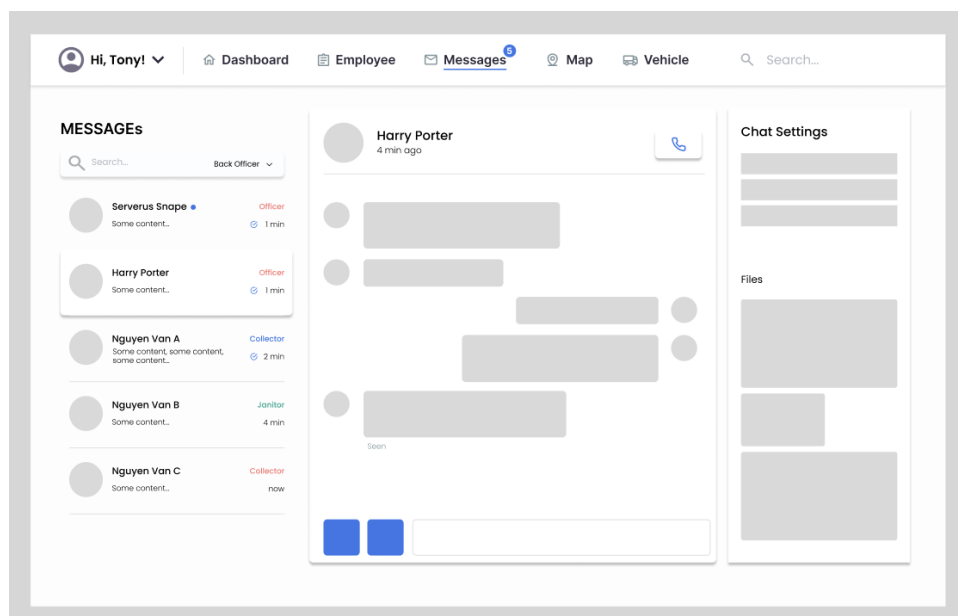
This is our UI design: [Link](#)



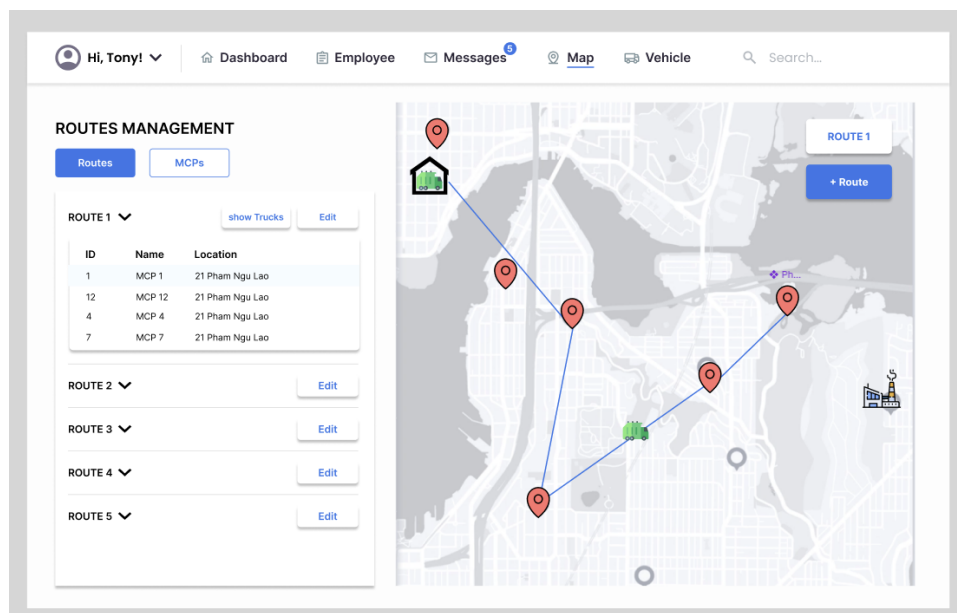
Hình 4: Dash Board



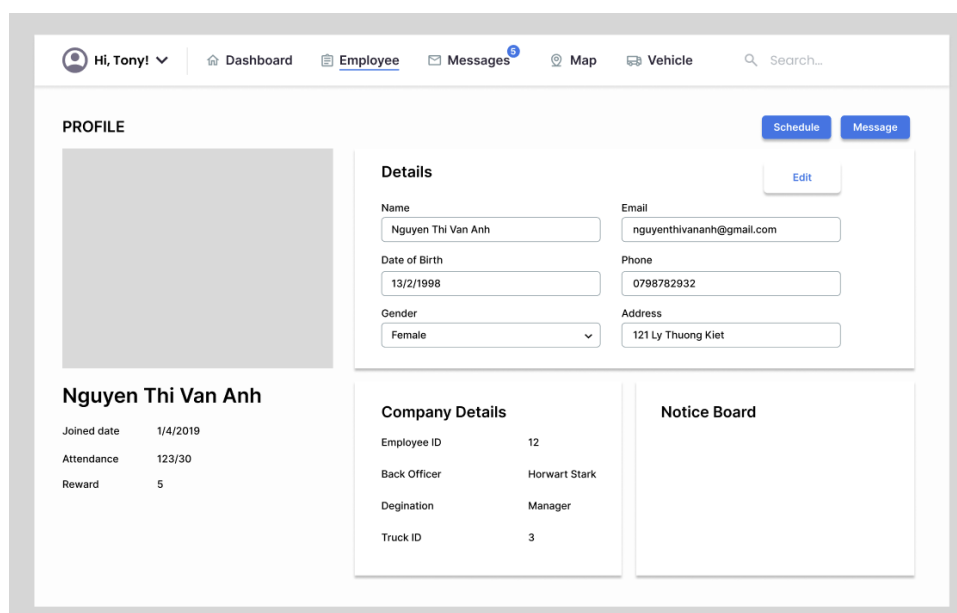
Hình 5: Employee



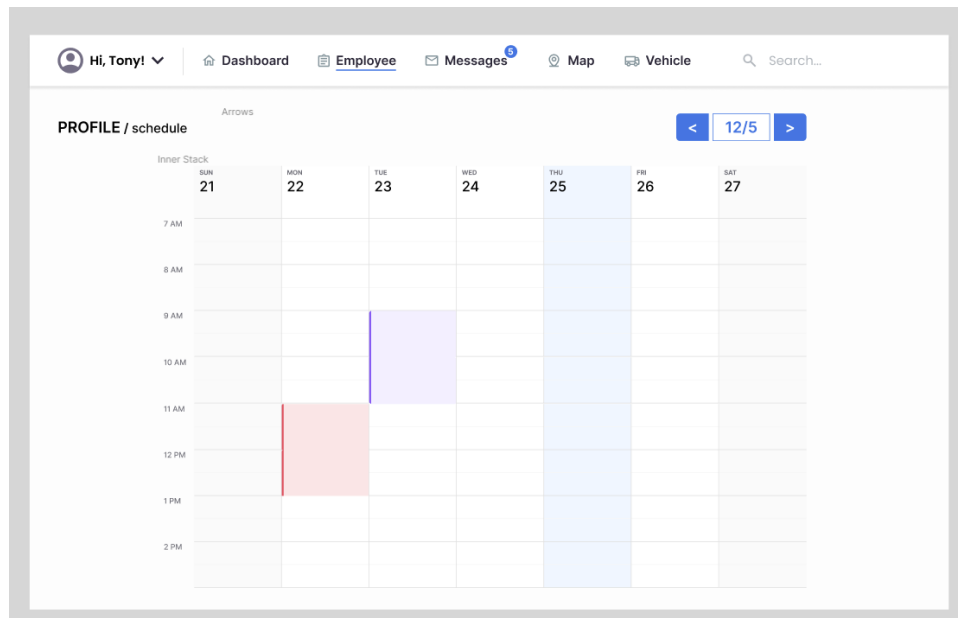
Hình 6: Message



Hình 7: Route Map



Hình 8: Profile



Hình 9: Schedule

VEHICLE MANAGEMENT

+ Vehicle

Search...

Active

ID	Driver	Type	Capacity	Load	
12	doanthitran@gmail.com 0798827391	Truck	60 Kg	30%	
13	nuthutran@gmail.com 0293938221	Trolley	60 Kg	30%	→ Map
14	a.nguyen@gmail.com 0898298331	Truck	3 Tons	30%	→ Map
15	nguyenvan@gmail.com 8988273317	Truck	3 Tons	30%	→ Map
16	tranvanc@gmail.com 098779283	Truck	3 Tons	30%	→ Map
17	tranvanc@gmail.com 0987728837	Truck	3 Tons	30%	→ Map

Hình 10: Vehicle management