

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Faculty of Technology and Engineering

The Maharaja Sayajirao University of Baroda

Vadodara



As a Partial Fulfillment Towards the Degree of

**“Master of Computer Applications / Bachelor in Engineering (CSE)”**

A Project Report on

**FLEET MANAGEMENT**

**Submitted By:**

Tandel Yograj 613028



## CERTIFICATE

This is to certify that **Tandel Yograj** Seat Number **613028** have successfully completed final year project entitled, Fleet Management and have submitted the project report for the degree of Master of Computer Science in Department of Computer Science and Engineering of The Maharaja Sayajirao University of Baroda.

This is the record of their own work carried under my supervision and guidance. The matters embodied in this project, to the best of my knowledge, have not been submitted earlier for any award of any other degree, diploma or fellowship of any University.

Head  
Department of Computer Science and  
Engineering Faculty of Technology and  
Engineering  
The Maharaja Sayajirao University of  
Baroda Vadodara

---

Project Guide  
Department of Computer Science and  
Engineering Faculty of Technology and  
Engineering  
The Maharaja Sayajirao University of  
Baroda Vadodara

## **ACKNOWLEDGEMENT**

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

I am highly indebted to Shreya Thakkar, Nikunj Ladva, Harshad Modi(CTO) for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in developing the project.

I would like to express my gratitude towards my parents & member of Odoo India for their kind co-operation and encouragement which help me in completion of this project.

I would like to express my special gratitude and thanks to industry persons for giving me such attention and time.

My thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

## **TABLE OF CONTENT**

<b>Sr. No.</b>	<b>Title</b>	<b>Page No.</b>
1.	Cover Page	01
2.	Certificate	02
3.	Acknowledgement	03
4.	Table of Contents	04
5.	Company Profile	05
6.	Introduction i. Purpose ii. Scope iii. Objective	06
7.	Technology Used	07
8.	Literature Review	08
9.	System Requirement Study	11
10.	System Design i. Use case Diagram ii. Activity Diagram iii. Class Diagram iv. Sequence Diagram	14
11.	Testing and implementation	32
12.	Screen Shots	34
13.	Reports	54
14.	Future Enhancements	56
14.	Bibliography	57

# 1. Company Profile

**Name:** Odoo India (Tiny ERP Pvt Ltd.)

**Description:** Odoo is business management software including CRM, e-commerce, billing, accounting, manufacturing, warehouse, project management, and inventory management.

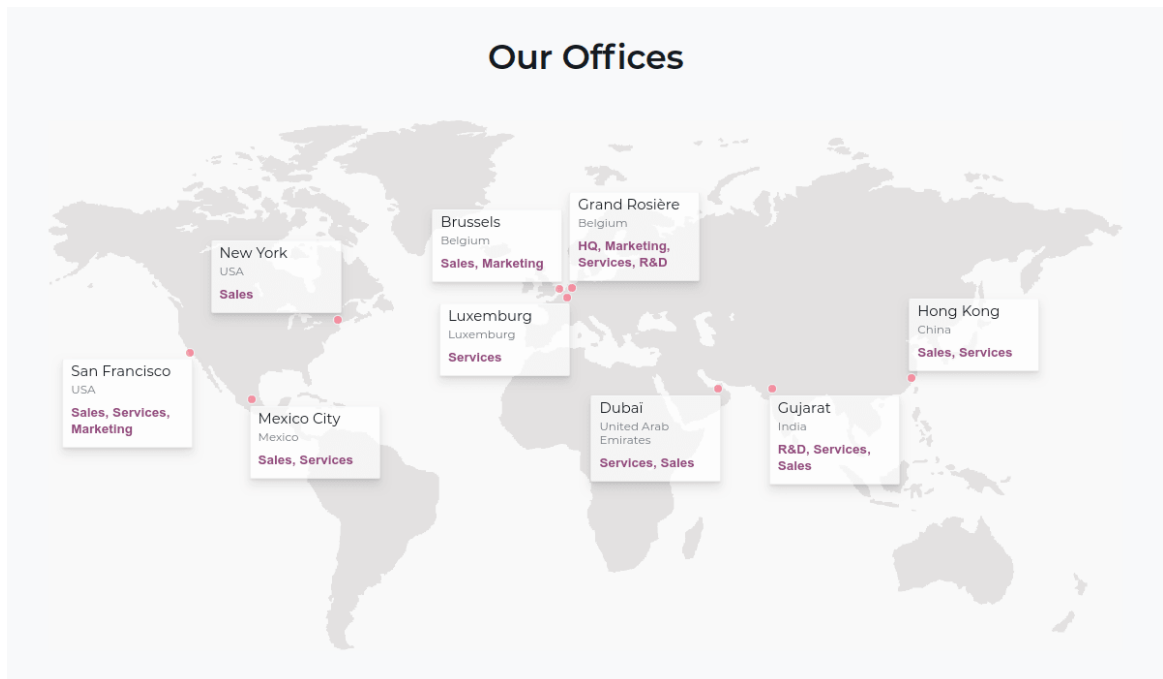
**Employees:** 850+

**Partners:** 2550

**Users:** 4.5 million

**Awards:**

- 2010 INSEAD Young Innovator Award
- 2012 Highest-ranked Belgian company in the Deloitte Technology Fast50 Benelux (growth of 1,549% in the past 5 years)
- 2012 Bossie Award for the Best Open Source Solution
- 2013 Trends Gazelles Award
- 2013 Linux New Media Award for The Best Open Source solution compatible with European Accounting Systems
- 2013 Bossie Award for the Best Open Source Solution
- 2013 L'Entreprise Prometteuse by Ernst & Young
- 2015 Bossie Award for the Best Open Source Solution
- 2015 Fabien Pinckaers is elected "Top Manager of the year" by Le Soir
- 2018 Trends Gazelle Award - SME category



## **6. Introduction**

Managing a fleet of vehicles is a challenging task, especially with rising fuel and maintenance costs, concerns about driver and passenger safety, and the need to deliver excellent customer service. Helping fleet operators address these areas, evolving technology, and the rise of connected vehicles provide new opportunities to improve fleet performance and customer satisfaction.

Nowadays, operating a fleet encompasses the management of vehicles, routes, and workers using a variety of technologies, including vehicle tracking, telematics. Making this easier, advanced fleet management systems allow fuel economy, driver behavior, and other things to be closely monitored by gathering useful data, such as mileage and fuel consumption.

### **i. Purpose**

Purpose of this document is to describe various requirements for the Fleet-Management App.

It describes various paths for fulfilling the requirement and details for various assumptions taken.

The purpose of the Fleet management system is to ease Transports or vehicle Rental business and to manage cost, keep watch on vehicle and driver.

### **ii. Scope**

- User Management
- Vehicle Management
- Driver Management
- Cost Management
- Contract Management
- Odometer Management
- Trip Management

### **iii. Objective**

Develop fleet management system within 6 month which is easy to use, has user friendly UI and help to run business in effective manner.

## **7. Technology Used**

### **7.1 Frontend Technology**

- XML
- JAVASCRIPT
- CSS
- BOOTSTRAP

### **7.2 Backend Technology**

- PYTHON
- XML

### **7.3 Server**

- Odoo

### **7.4 Framework**

- Odoo

## 8. Literature Review

While assigning project CTO told me to do research on fleet management and possible features of it. I researched it and propose the feature describe content. But first company want me to develop basic fleet management with feature like cost management, vehicle management, contract management etc and then develop advance feature.

**Fleet management software** is a standalone app or a cloud product that helps businesses maintain optimal use of their work vehicles from a central platform. Besides the software, fleet management involves the use of a telematics unit (which we discuss further) with a human interface device.

FMS allows for tracking a large number of a vehicle's data: speed, temperature, engine block, fuel level, door opening, geographical location, route direction, etc. Received from a vehicle's sensors, this data is displayed to the manager who can track all their vehicles in real time, determine when they'll get to the destination, and how well the vehicles are handled by the drivers.

Using dedicated software for managing fleet brings multiple benefits to the table:

- automates tasks (e.g. proper routing)
- streamlines associated processes (e.g. Vehicle maintenance)
- provides real-time insights for better management of both drivers and vehicles
- connects vehicles
- ensures smart transportation
- enhances driver safety
- guarantees consistent fleet performance
- reduces costs

### **Main modules of fleet management software:**

- **Routing** – helps make logistics decisions based on vehicle GPS position, duration of stops, speed, etc.
- **Fuel management** – tracks fuel consumption tendencies to minimize idling time, emissions, and more.
- **Vehicle maintenance** – streamlines the process of diagnosing and inspecting, reminds of routine checkups.
- **Drivers management** – stores personal profiles and hours of service to analyze productivity and behavior.
- **Shipment management** – analyzes expenses, quotes, licenses and more to optimize delivery, dispatch, and cargo placement.
- **Security and safety features** – assist drivers with any safety issues on the road.



## Routing

**Asset tracking-** Installed in the dashboard, a GPS locator beacon allows fleet managers to track and study the vehicles in the fleet.

Tracking can be active, pinpointing a live vehicle's whereabouts, and passive, capturing the ride data for further analysis – such as route optimization, driving speed, idling tendencies, etc.

**Geofencing-** This feature provides various notifications on the vehicle's whereabouts: when the vehicles depart, when it leaves pre-defined boundaries.

**Route planning and optimization-** Route optimization functionality plans efficient routes by determining the shortest and most fuel-efficient paths between each stop. Pairing route optimization with the fuel management module will save both time and fuel costs.

**Custom mapping-** Route planning capacity can be further expanded with the ability to design your own business-relevant maps. Being highly customizable in terms of views, legends, zone shapes, and sizes makes your maps so convenient in use.

## Fuel management

A fuel management module monitors a fuel tank and forms fuel management reports. This allows fleet managers to efficiently plan routes and coordinate drivers. Eventually, this helps reduce fuel expenses.

**Engine idling-** This is one of the main fuel-guzzling habits. Many trucks idle up to eight hours per day resulting in increased fuel and maintenance costs. So to reduce fuel costs in the long run, it's important to track and reduce idle time. Besides that, excessive engine idling hurts the environment.

**Fuel cards-** As a specific form of cashless payment, fuel cards help keep a record of costs and scrutinize inefficiencies across the fleet. Among the key benefits of fuel cards are wholesale prices, secure purchasing, and close monitoring of fuel consumption via dedicated fuel card accounts.

**Remote fuel tank monitoring-** The Engine Control Module (ECM) collects all sorts of data about the condition of your vehicle, including fuel quantity measurement. In fact, ECM provides miles per gallon/liter information to the vehicle dashboard and flashes the fuel indicator as a signal for a refill.

**Fuel management reports-** These contain the information on every fuel purchase made. Therefore, by keeping an eye on this data, fleet managers can easily spot unauthorized purchases and set restrictions for each fuel card: the number of transactions, the quantity of fuel, and even the type of fuel that can be purchased.

## Drivers management

This module helps to keep track of driver behavior and stores the related data.

**Driver profiles-** FMS keeps your driver records up-to-date, organized, and easily accessible from a central location. By storing all driver licensing and medical information

in the software, fleet managers can always check if their drivers have valid licenses, set up reminders for those whose license needs renewing, and ensure that drivers have taken and passed medical tests.

**Behavior monitoring-** Having skilled drivers behind the wheel reduces accident risks and saves up to 12 percent on the fleet costs. That's why monitoring driver performance will certainly pay off. You'll be able to take immediate action if a driver demonstrates aggressive driving, acts fatigued, or distracted.

## **Security and safety features**

Safety management tools protect your vehicles and drivers by providing emergency roadside assistance, vehicle theft alerts, and remote monitoring. Being able to monitor a driver's time of arrival, speed and more, fleet companies can secure themselves from false claims.

**Road hazard alert-** Alerting services keep drivers informed in real time of the state of the road, the weather, or last-minute changes on the route. Such services automatically notify drivers when they're approaching potential roadway weather hazards.

**Roadside assistance-** Should fleet drivers experience any roadside issue, they can request help via their telematics device with integrated roadside assistance solution. The latter dispatches a service request to the closest provider, ensuring a fast response. A driver can then track the service vehicle driving to their location.

**Dash cam-** Automatically making photos, videos, and panorama thumbnail views, a dash cam can playback the entire event. Integrated with telematics, a dash cam provides visibility into the incidents and driver behavior.

## **9. System Requirement Study**

### **9.1 Product Perspective**

A distributed database system stores the following information.

#### **Vehicle Detail:**

It includes vehicle registration number, no of seats , company of vehicle etc.

#### **Driver Detail:**

It includes name, driving licence number, phone number etc,

#### **Customer Detail:**

It includes name, address, phone number. This information may be used for keeping the records of the customer for any emergency or for any other kind of information.

#### **Contract Detail:**

It include pickup and destination address, vehicle, dates etc,

#### **Trip Detail :**

It includes contract and driver detail.

#### **Odoeter Detail :**

It includes odometer vehicle, reading, date etc.

#### **Cost on Vehicle :**

It includes date, amount, type of service(petrol, tire, licence) etc.

### **9.2 System Feature**

- vehicle management
- driver management
- contract management
- trip management
- odometer management
- cost management
- online payment
- multi company
- customer portal
- driver portal
- live tracking

### **9.3 Functional Requirements**

There will be three type of user (Manager, sales person, Driver in company and the fourth user is customer who will use system. There should be privileges for all type of user.

The customer should be able to do the following functions:

Retrieve information about availability of vehicle between two given dates.

- Make new contract
- Cancel contract
- Confirm contract
- Give rating, review
- View travelling history

The sales person should have following management functionalities:

➤ **CUSTOMER FUNCTIONS**

- Get all available vehicle between given date.

➤ **ADMINISTRATIVE**

- Add/Update new contract
- Add/Update new trip
- Add/Update odometer entry

The manager should have following management functionality

➤ **CUSTOMER FUNCTIONS**

- Get all customers who have travelled between given dates.
- Get all customers detail who travelled in given vehicle between given dates.
- Get all vehicles booked on given date.
- Get all available vehicle between given date.
- Get all vehicles whose contract is running.

➤ **ADMINISTRATIVE**

- Add/Update/Delete new vehicle
- Add/Update/Delete new driver
- Add/update customer
- Add/Update new contract
- Add/Update new trip
- Add/update odometer entry
- Add/Update cost spend on vehicle (ex. Cost on vehicle service)

## 9.4 Non-functional Requirement

➤ **Security :**

The system should be developed such that user data remains secure.

➤ **Performance :**

The system should be designed such that it is optimized, such that the user experience is smooth.

➤ **Maintainability :**

The system shall be easy to maintain and will be getting updates whenever necessary.

## **9.5 External Interface Requirements**

➤ **Hardware and Software Interfaces for Developer**

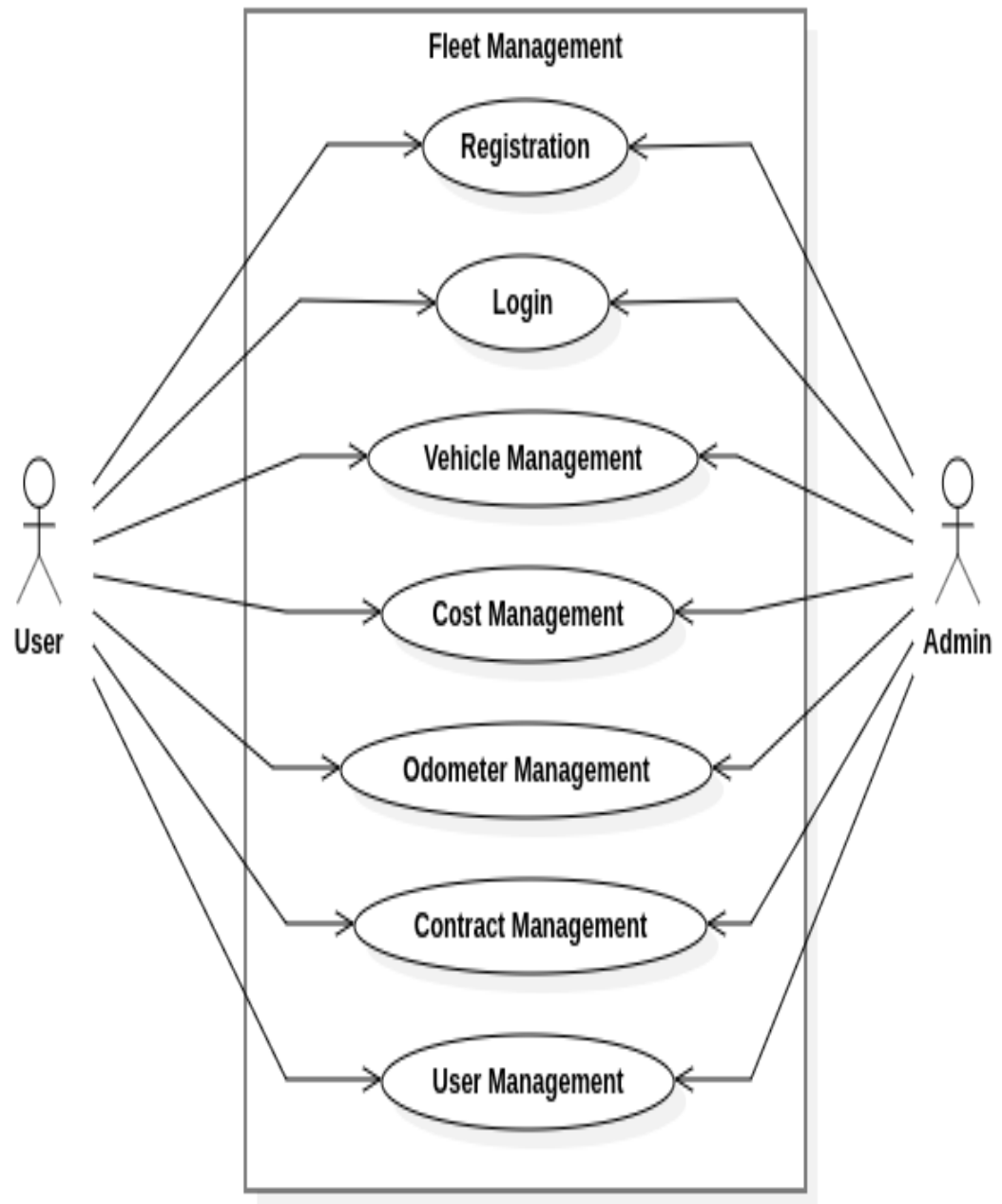
- OS : ubuntu
- RAM : 2 Gb minimum
- Editor : any text editor(Recommended: Sublime)
- Prerequisites : odoo framework, postgresSQL, apache server, python

➤ **Hardware and Software Interface for User**

- OS: Any operating system that support browser
- RAM : 1 GB minimum
- Network: active internet.
- Web application: Google chrome(recommended),internet explorer, firefox, etc.

## 10. System Design

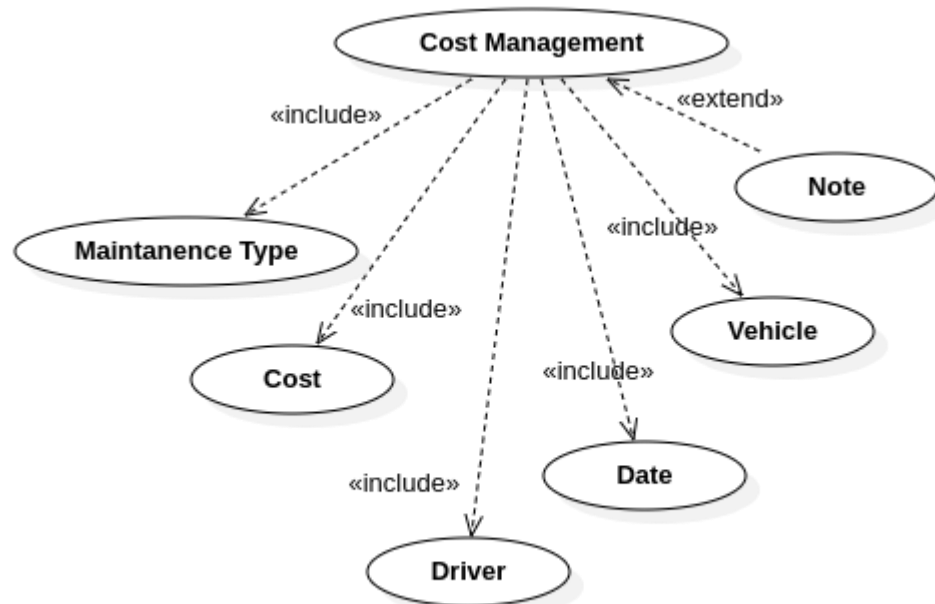
### 10.1 Use Case



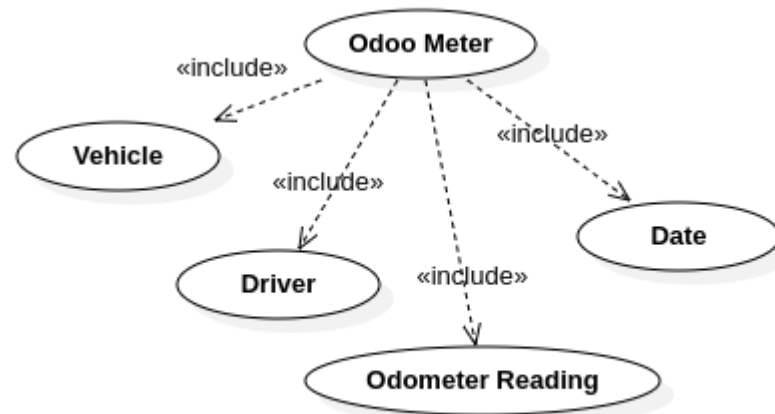
- **Vehicle Management**



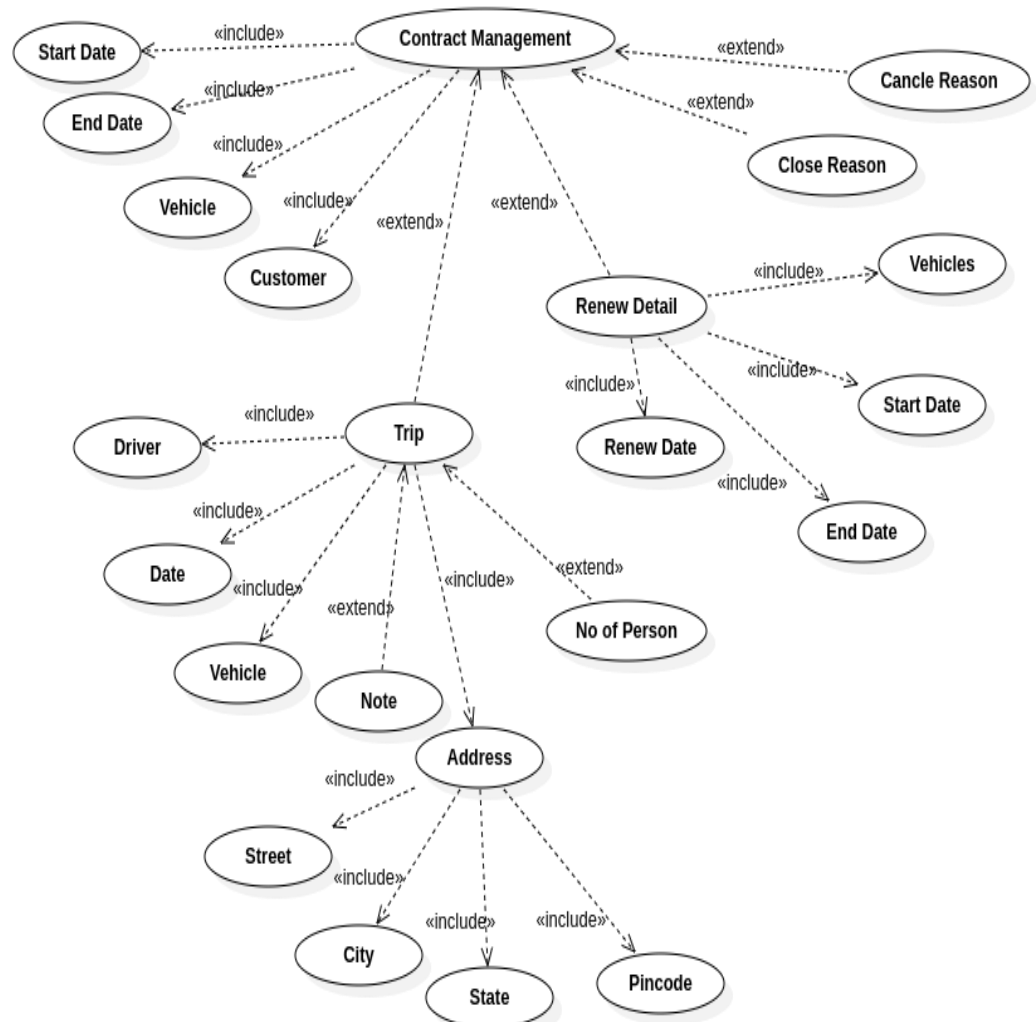
- **Cost Management**



- **Odometer Management**

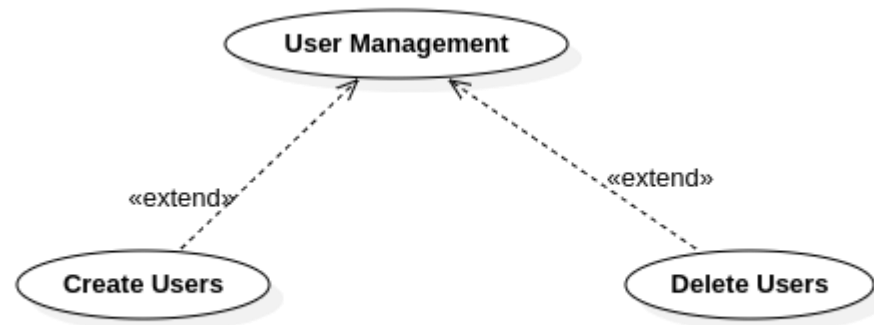


- **Contract Management**



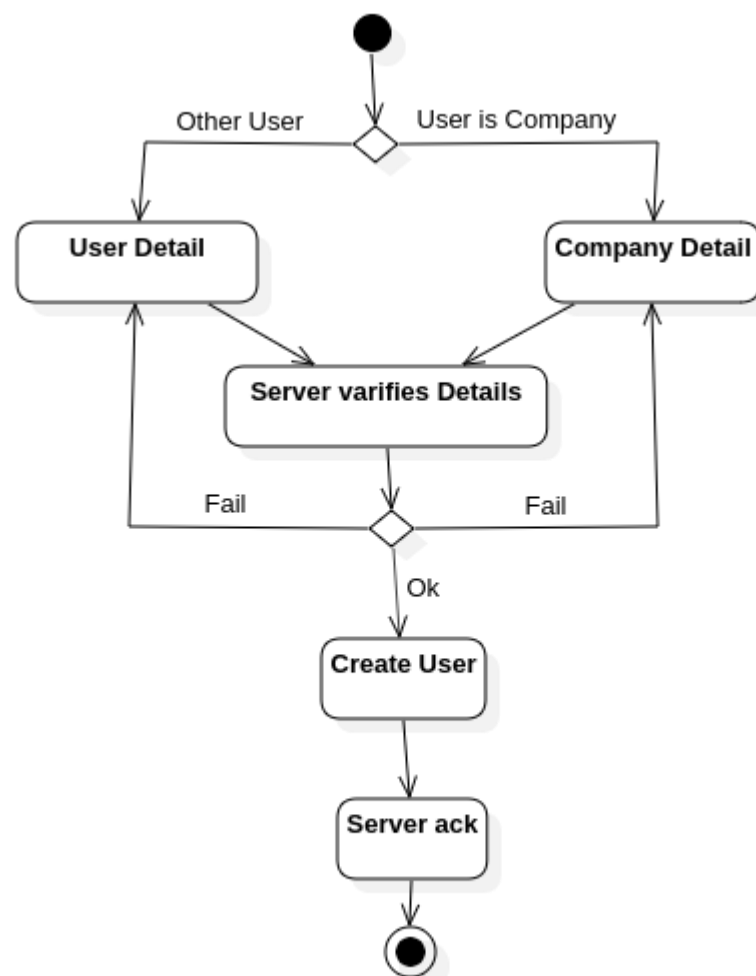


- **User Management**

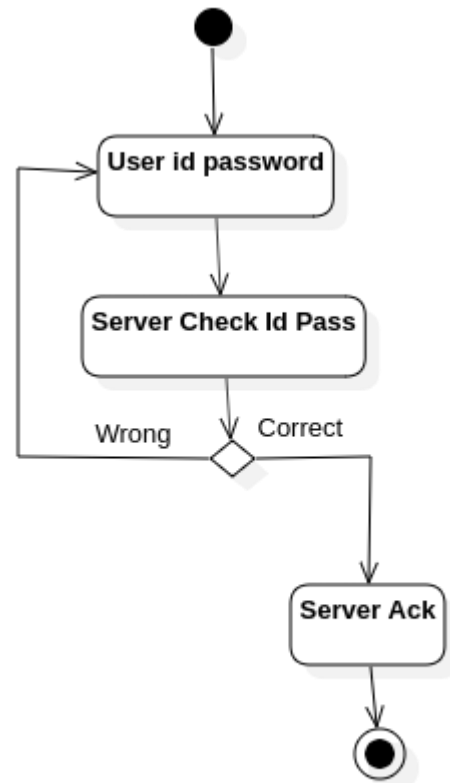


## 10.2 Activity

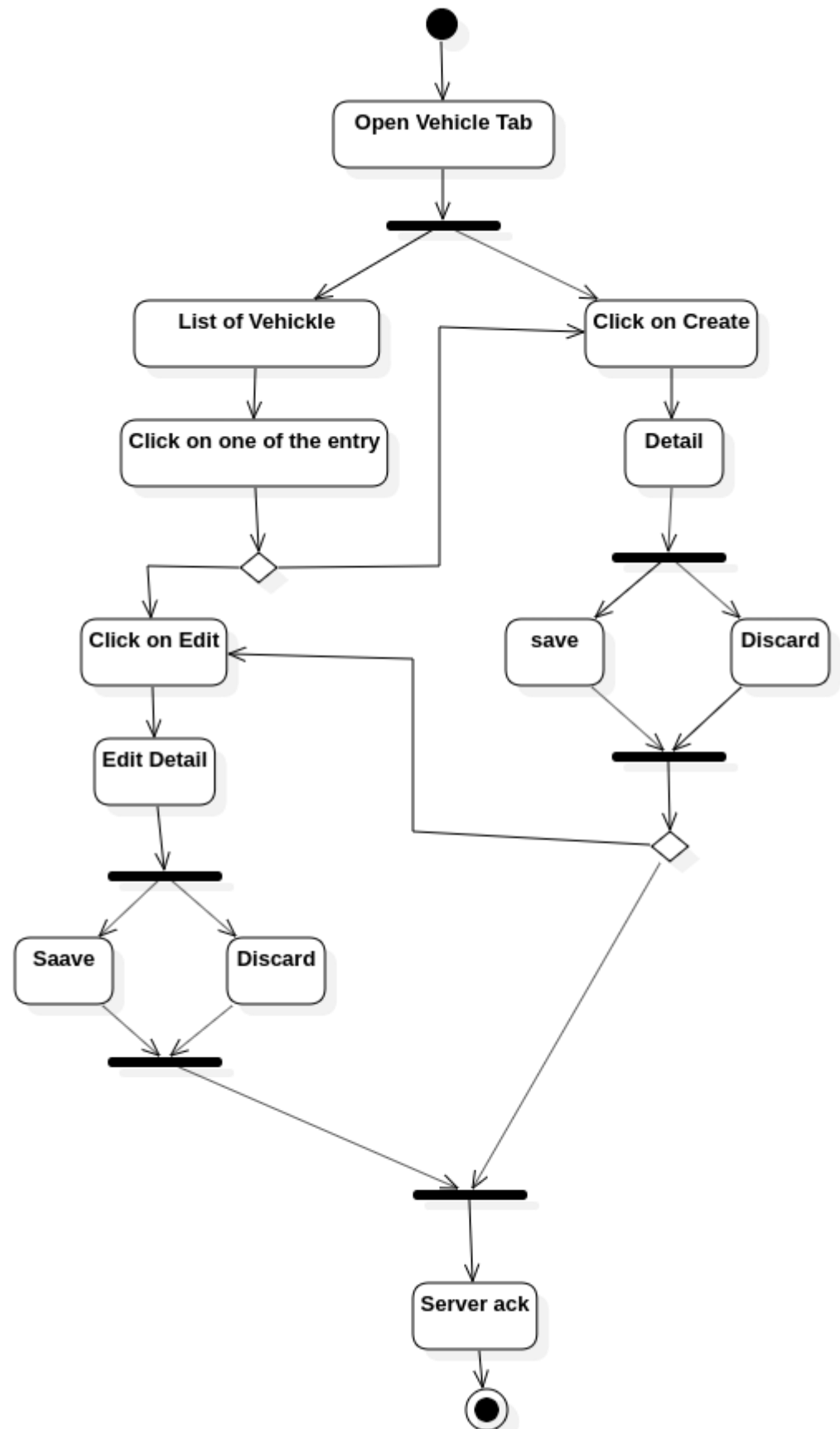
- **Registration**



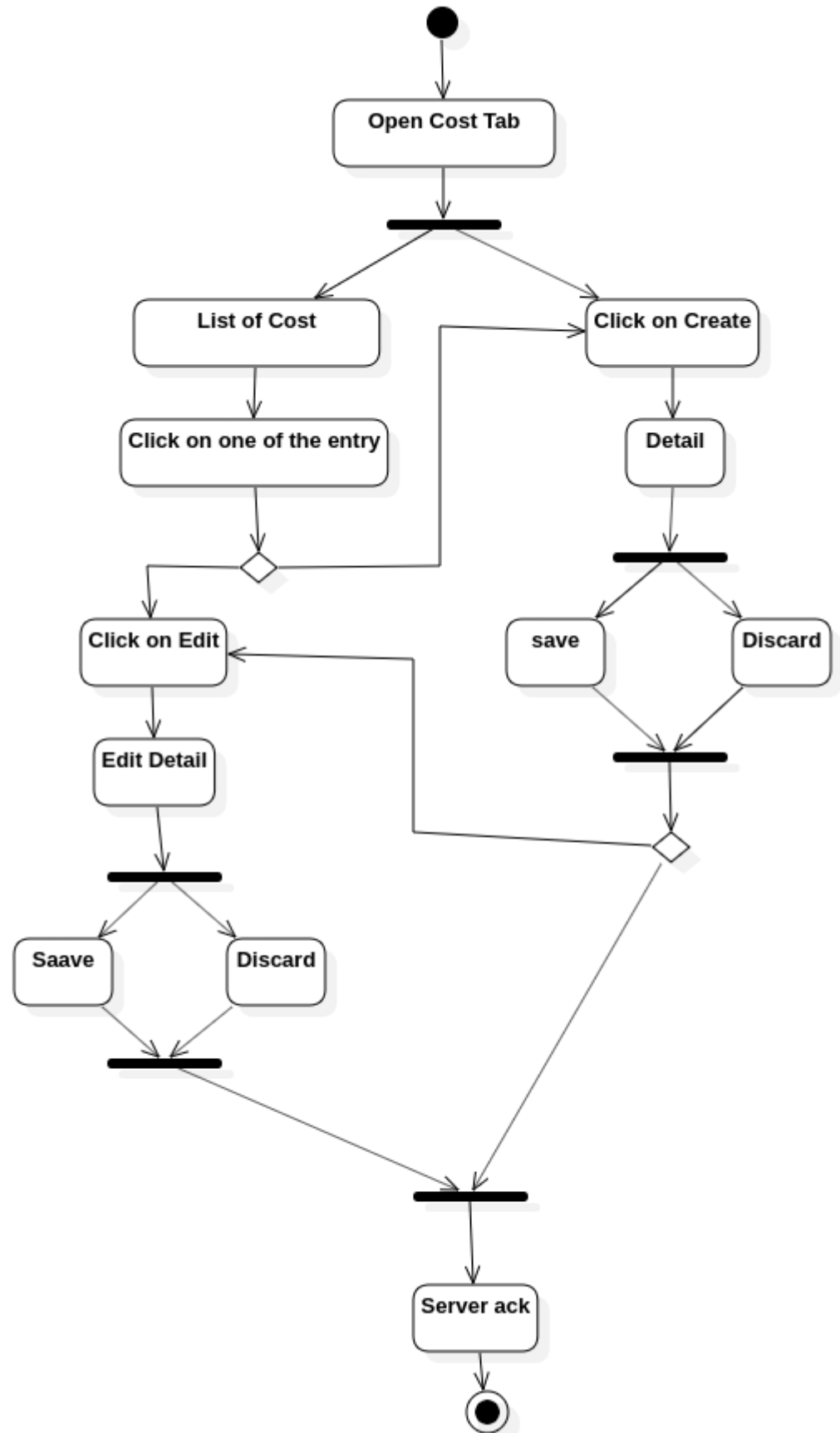
- **Login**



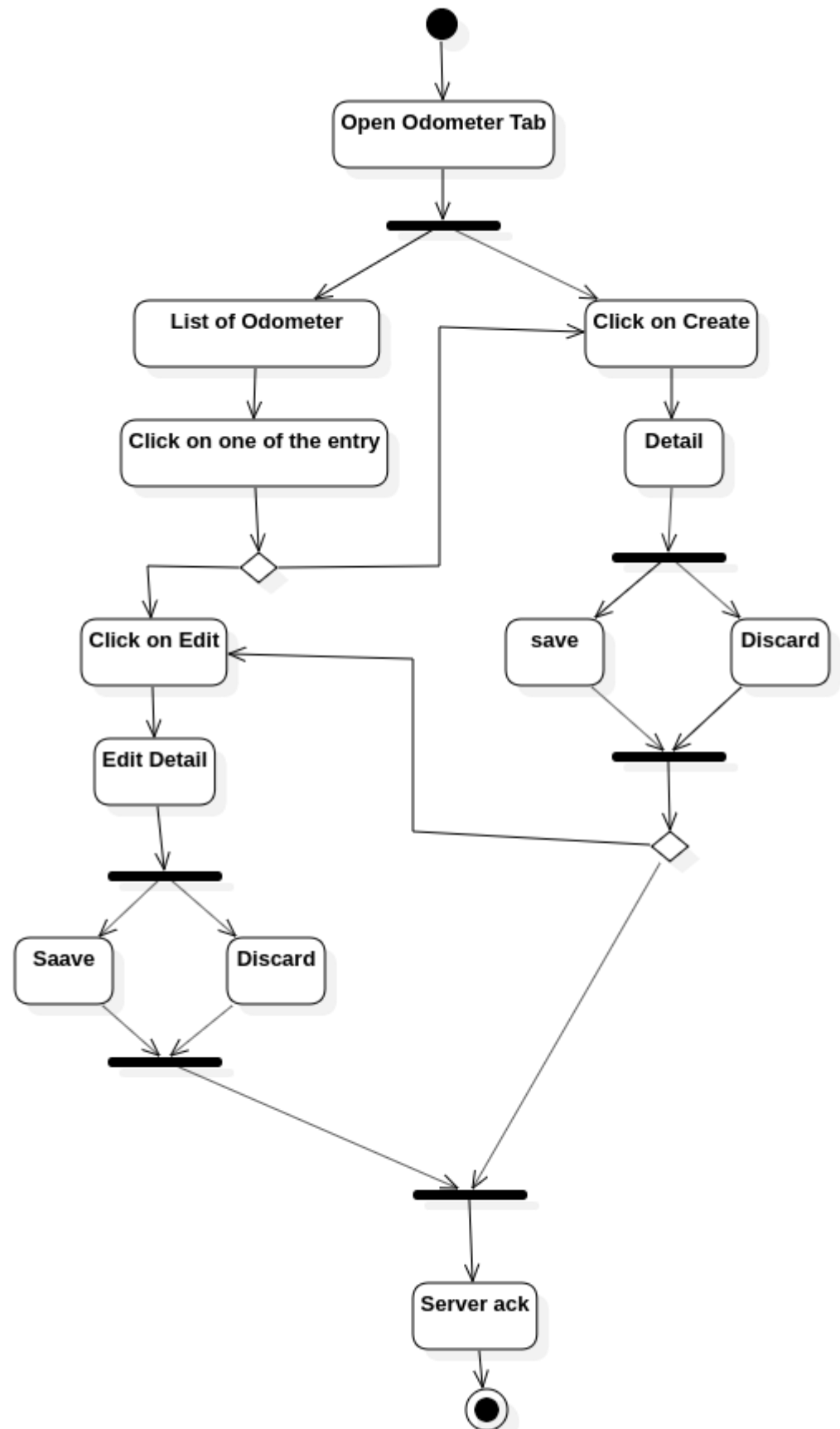
- **Vehicle Management**



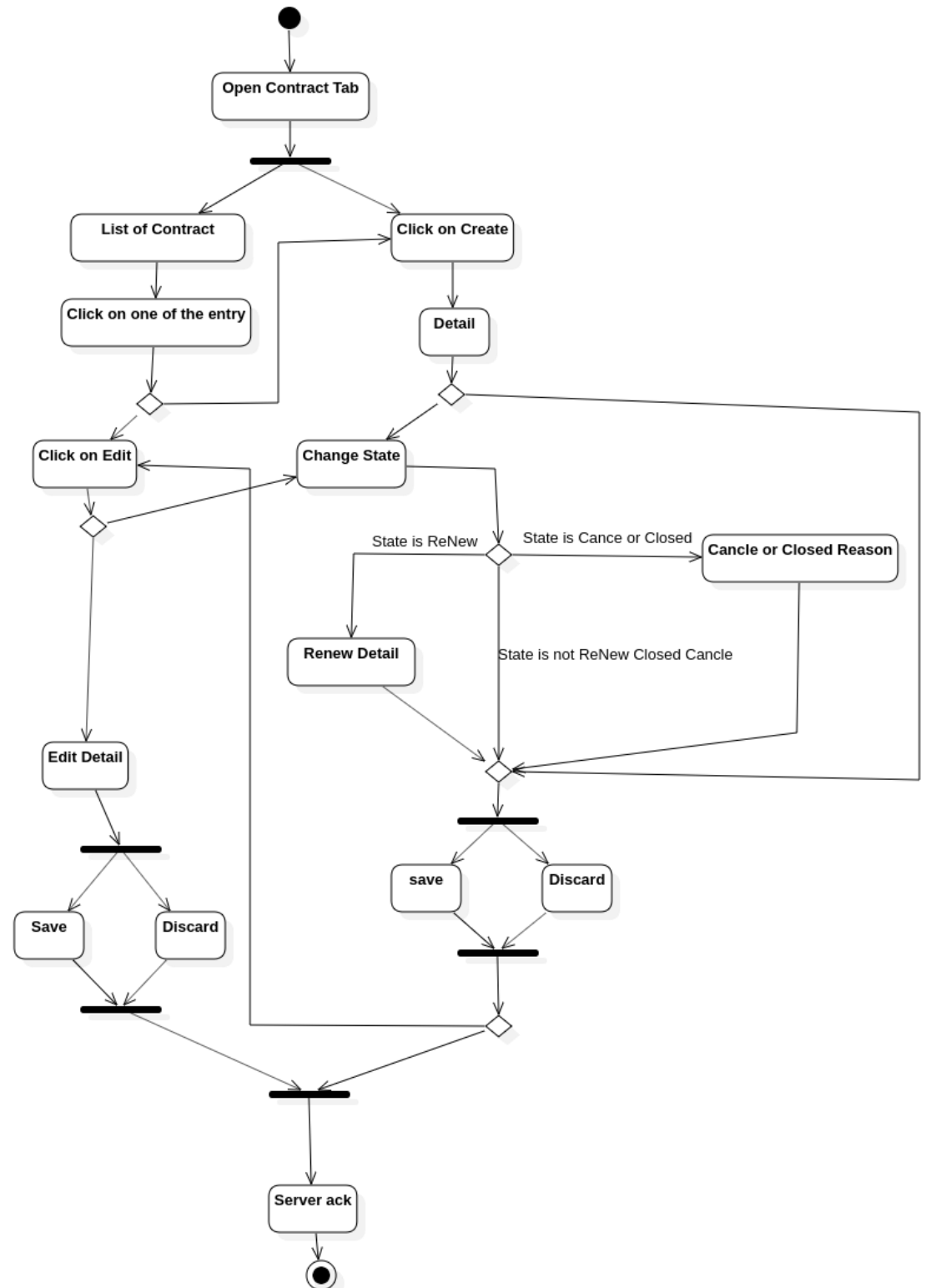
- **Cost Management**



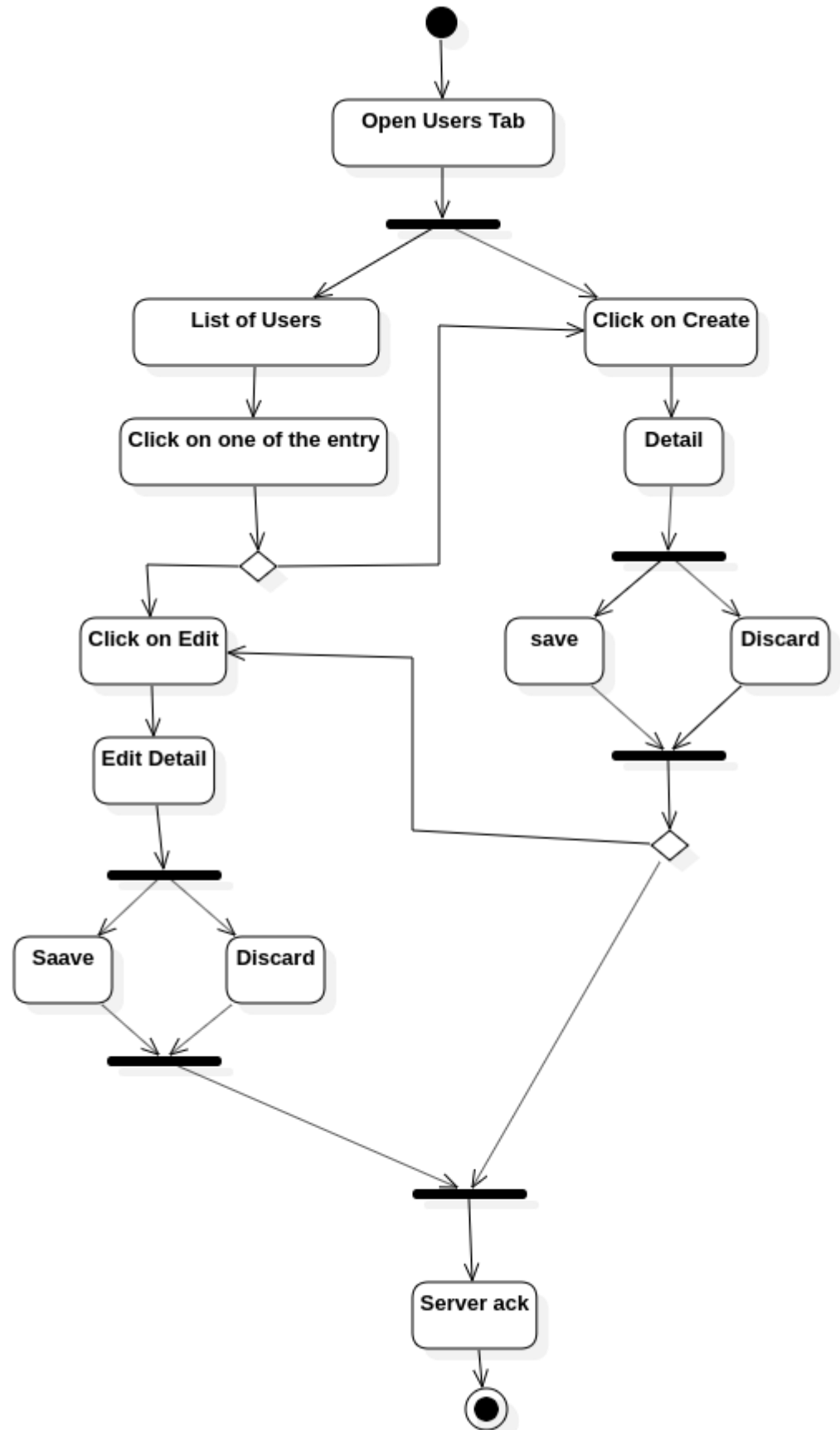
- Odometer Management



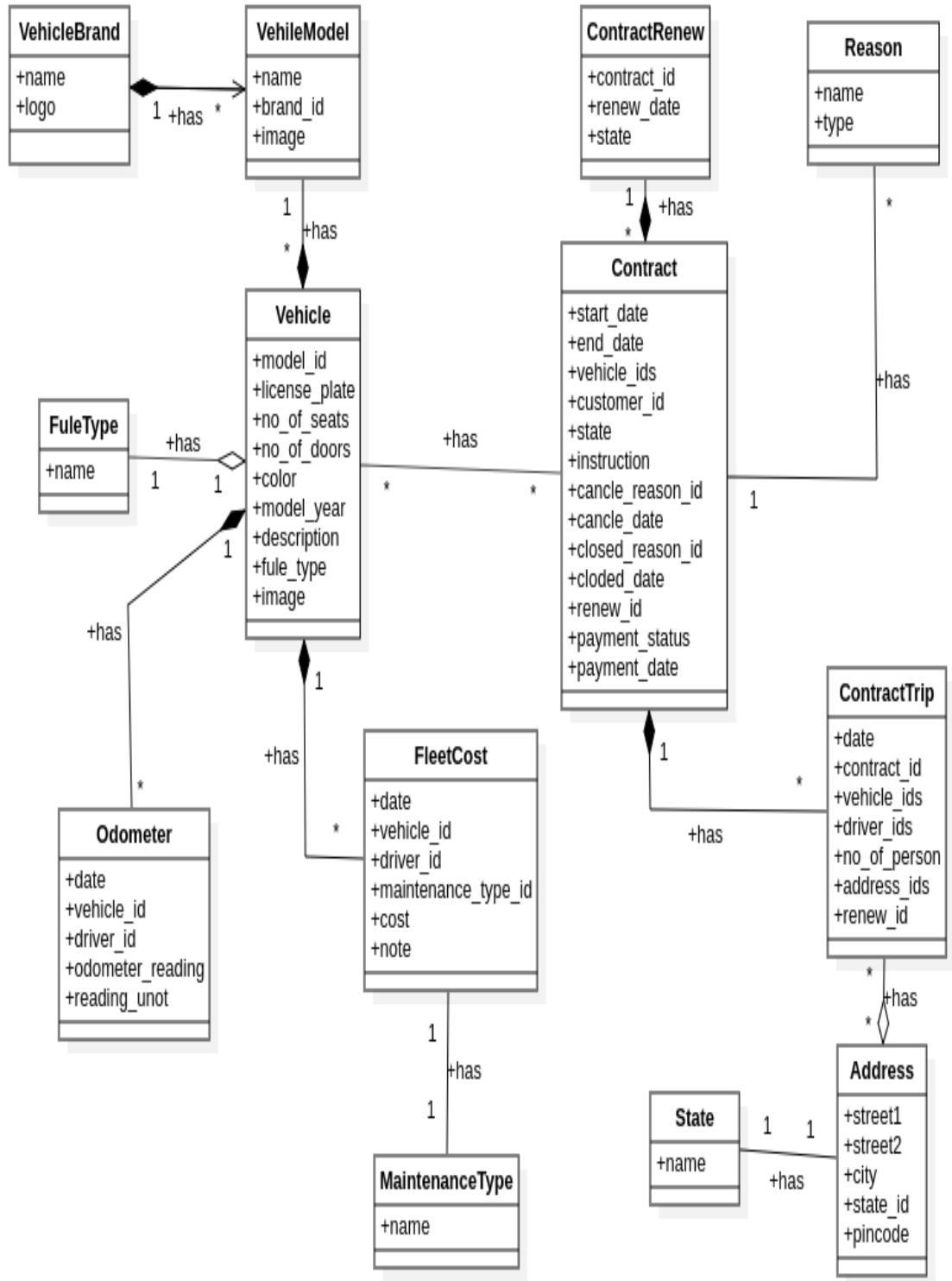
- **Contract Management**



- User management



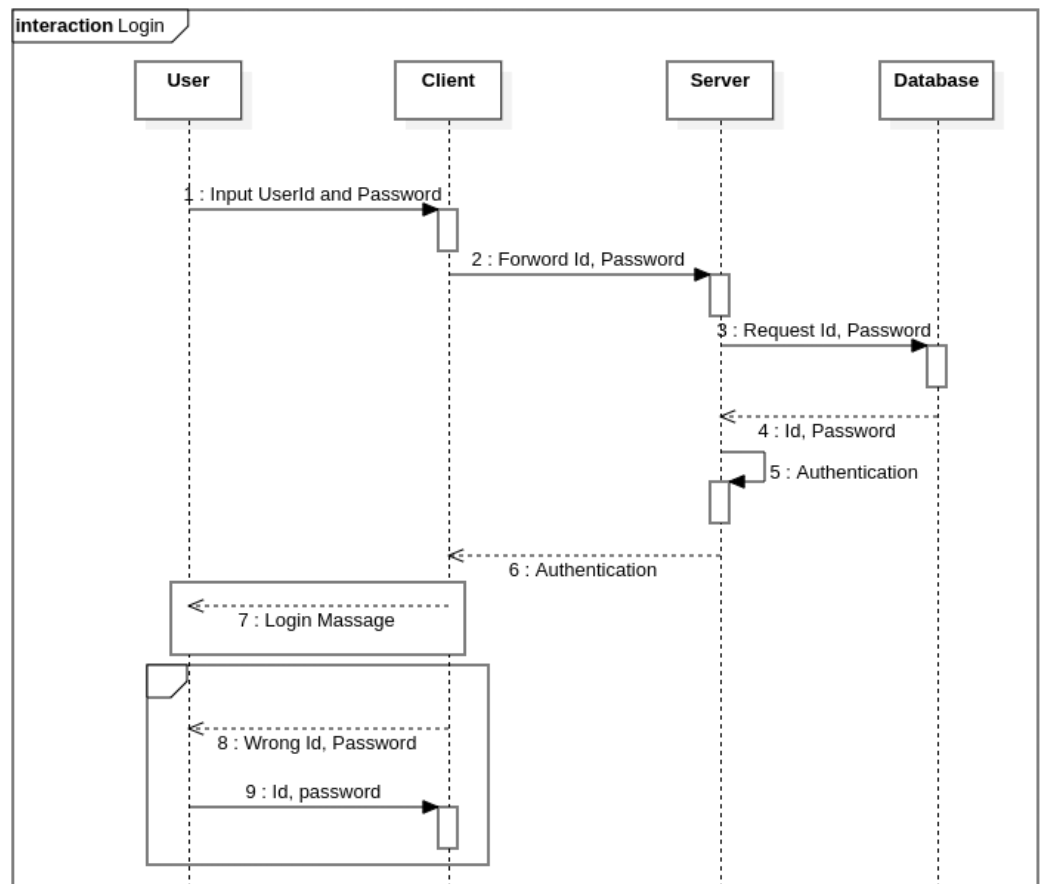
## 10.3 Class



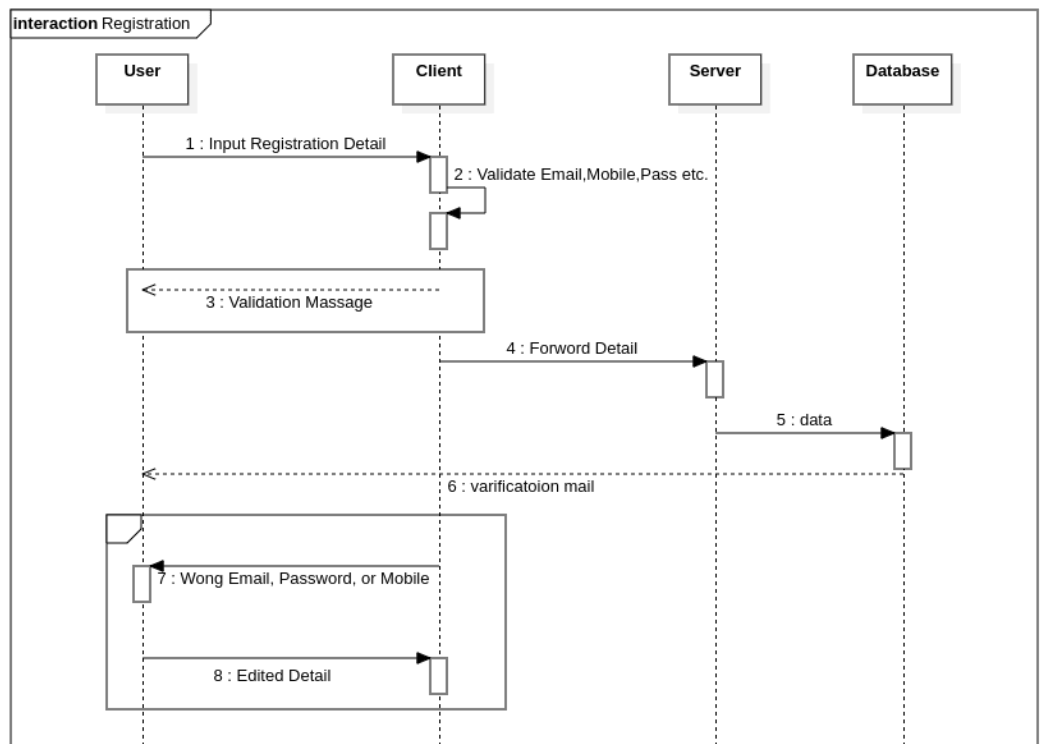


## 10.4 Sequence

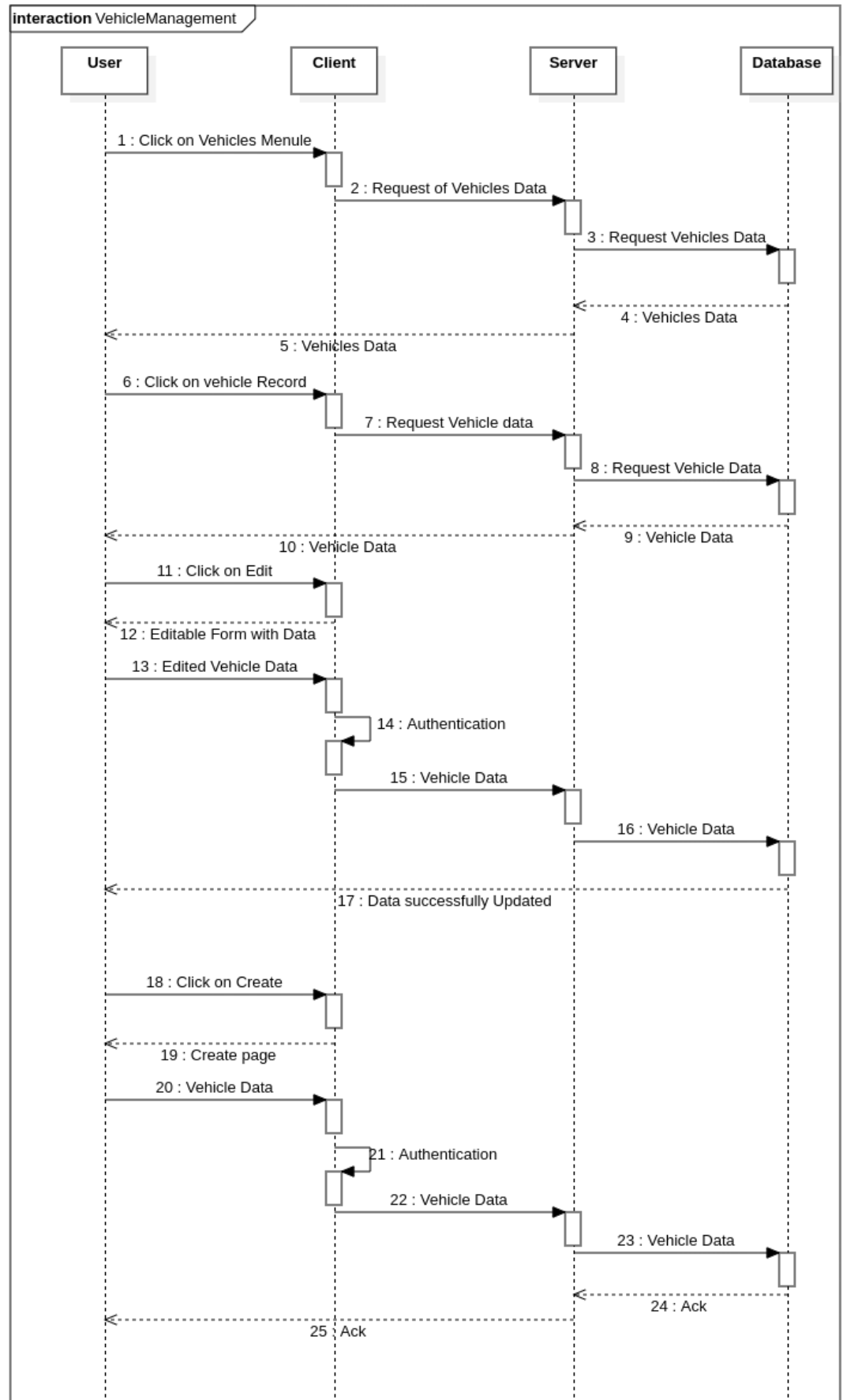
- Registration



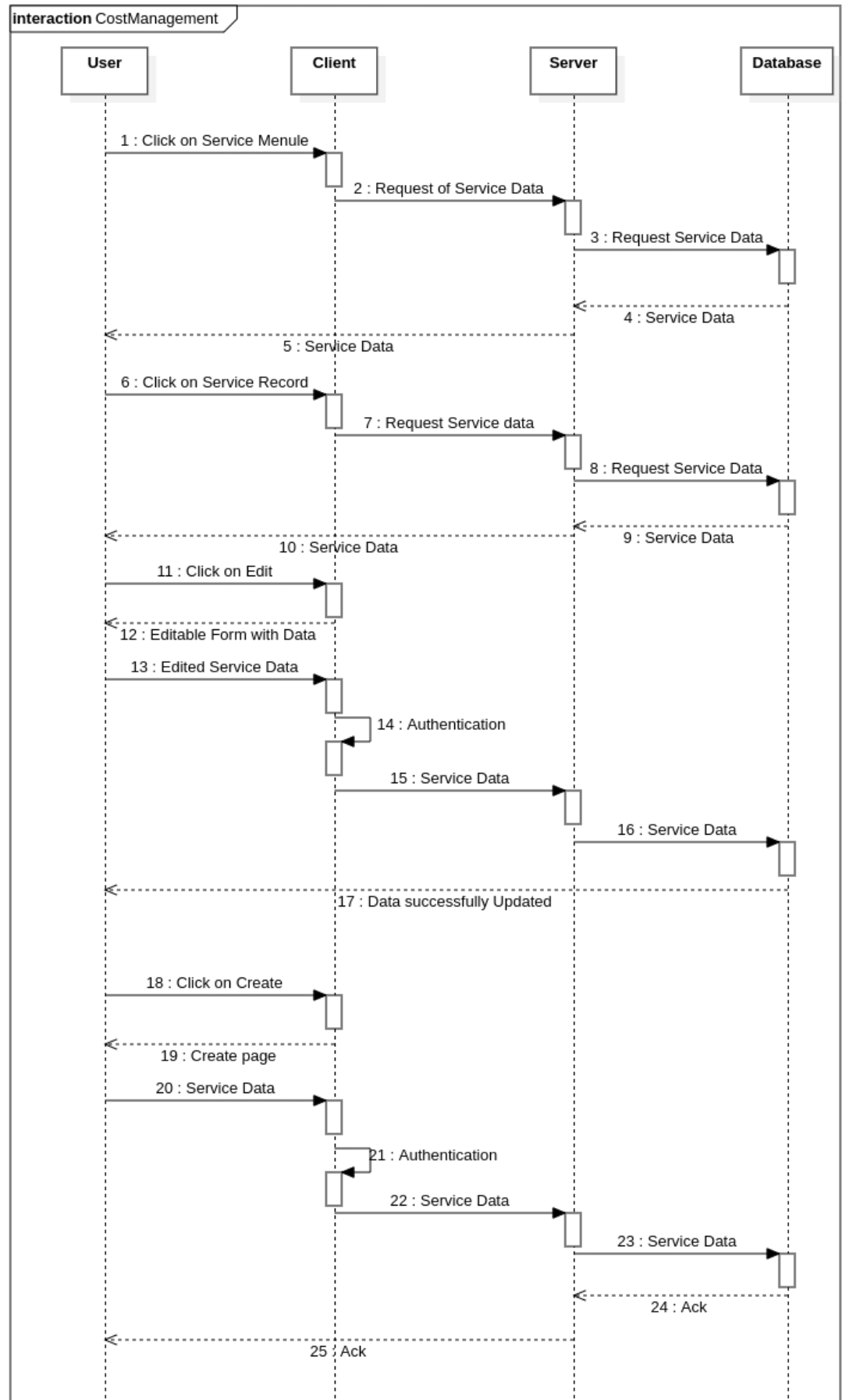
- Login



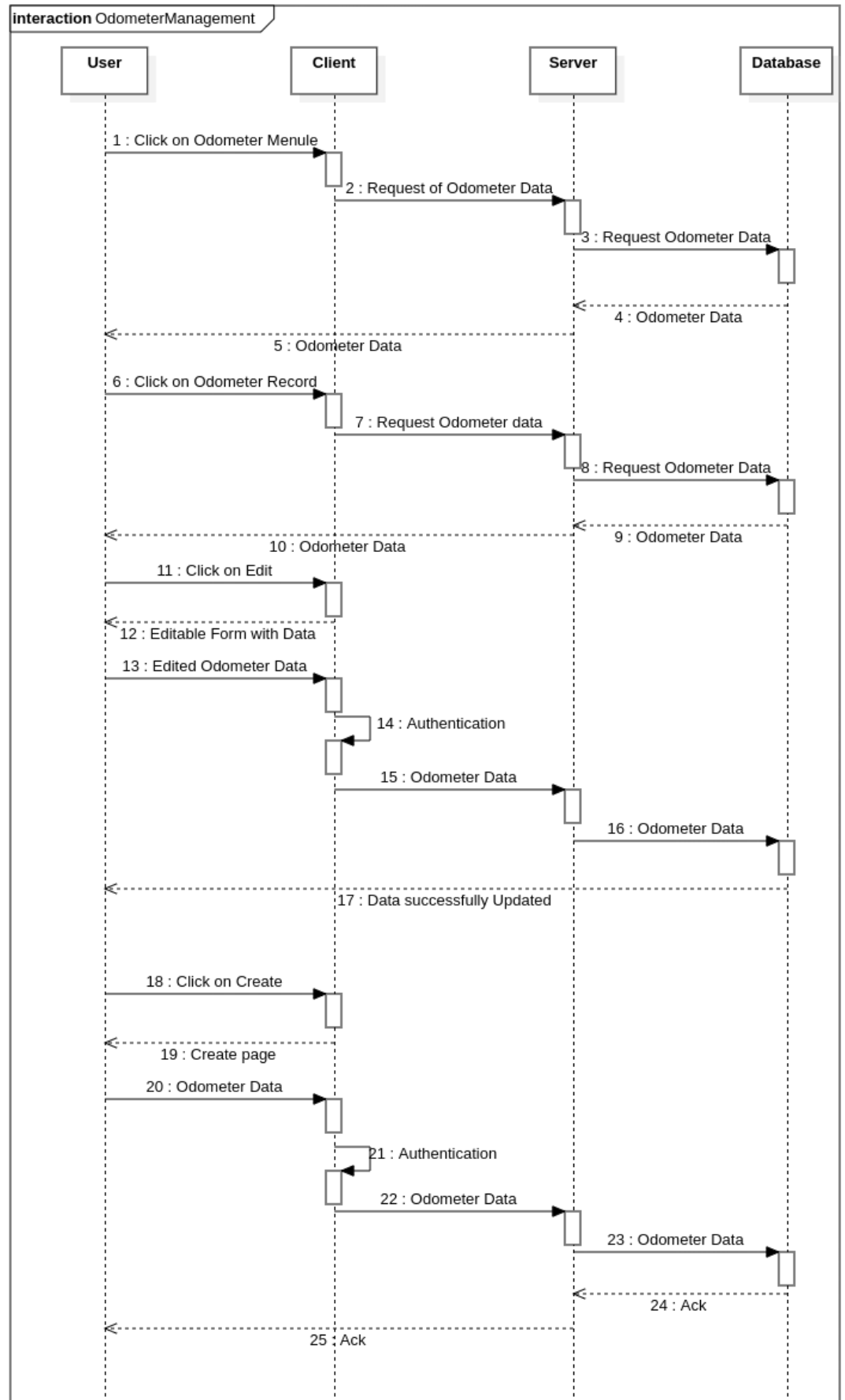
- **Vehicle Management**



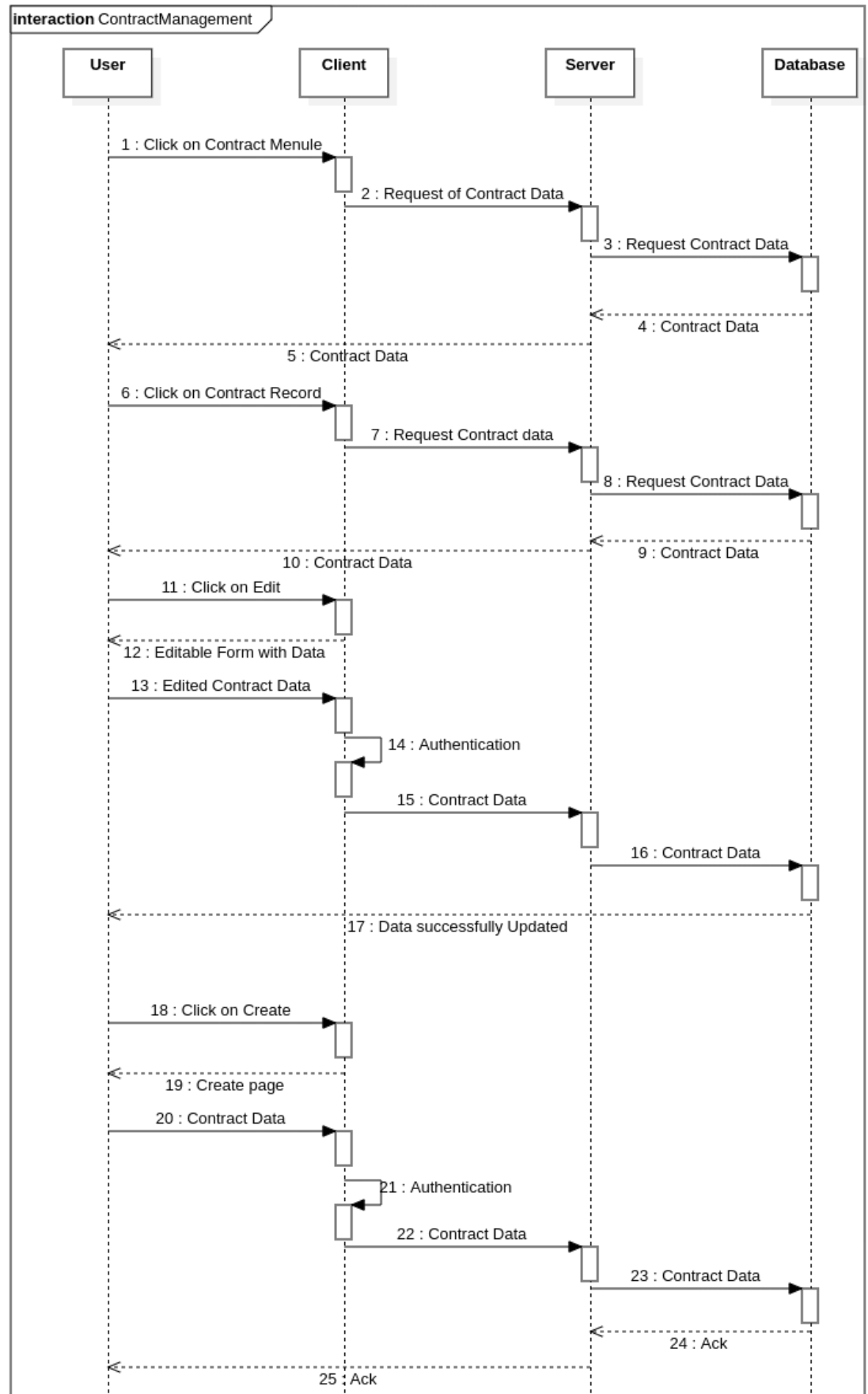
- **Cost Management**

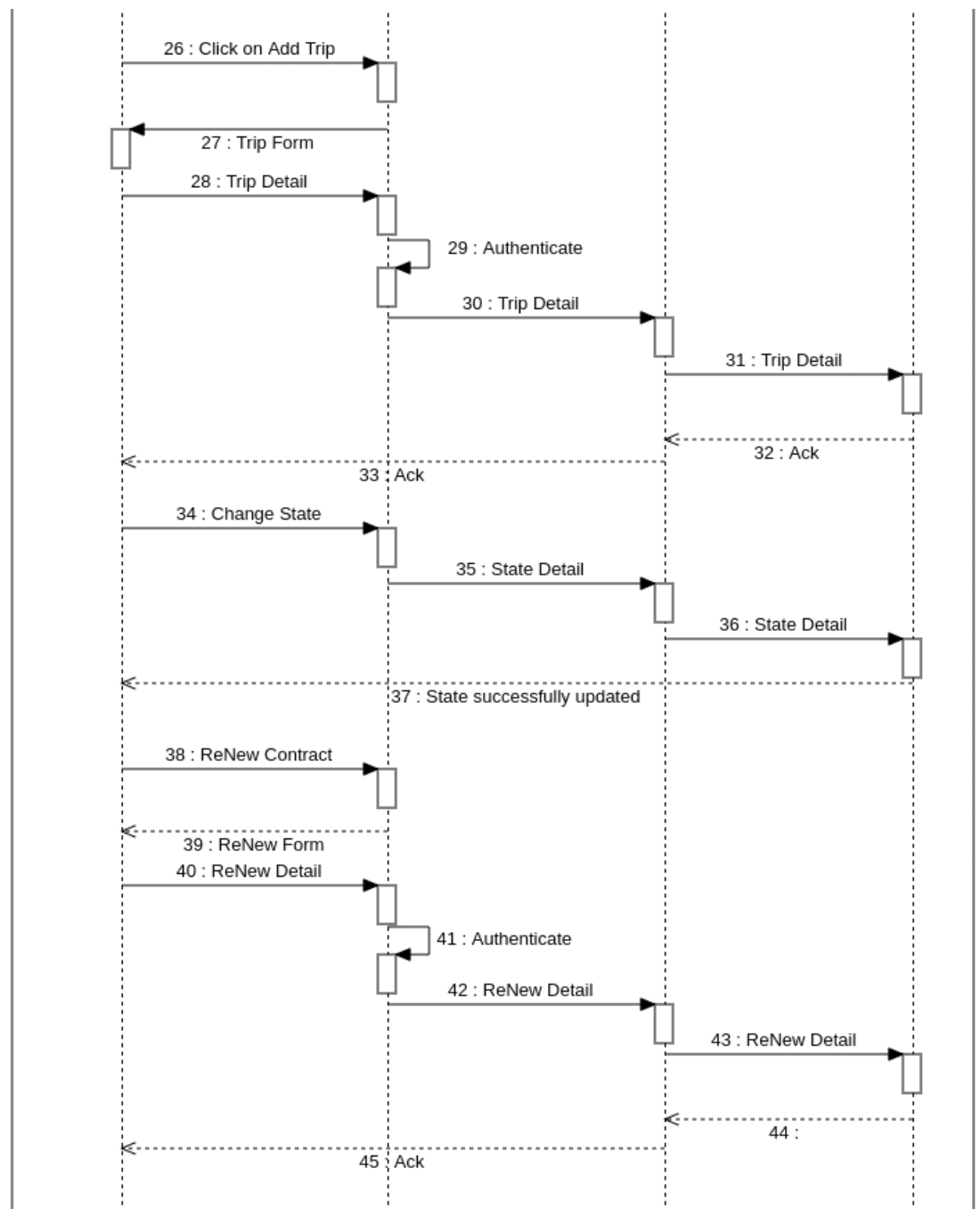


- **Odometer Management**

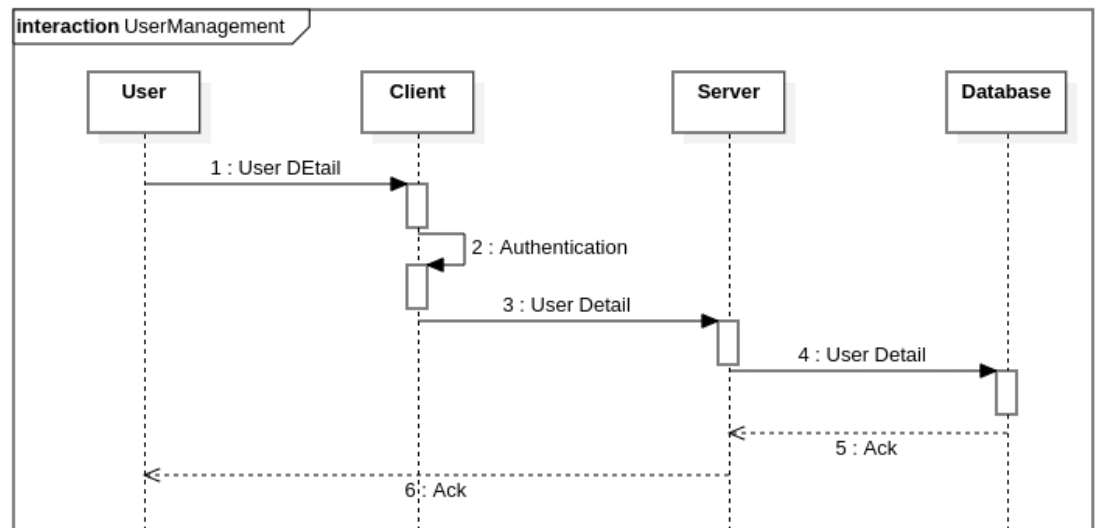


- **Contract Management**





- **User management**



## 11.0 Testing and implementation

This section explains the various activities performed as part of the Testing of the Fleet Management system.

### 11.1 Testing Scope

- **In Scope**
  - Vehicle management
  - Cost management
  - Odometer management
  - Contract management
  - User management
- **Out of Scope**
  - Performance Testing was not done for this application.
- **Items not tested**
  - Multi company features
- **Partially tested**
  - Tracking function
  - Take address by moving marker on map

### 11.2 Function tested by manual testing

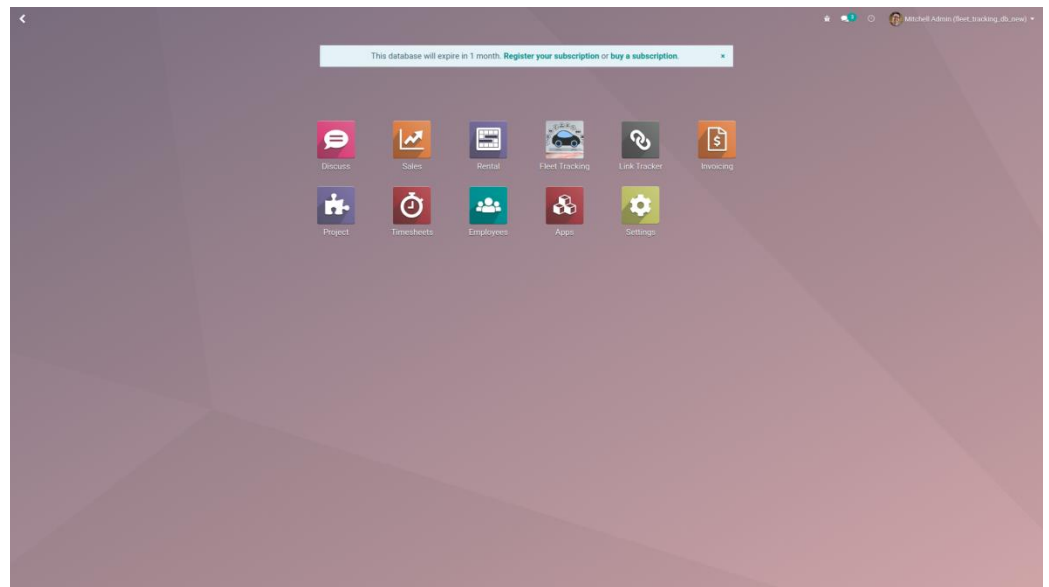
Function	Description
Create new vehicle	Checked new vehicle is created
Edit vehicle detail	Checked vehicle can be edited
Create service	Checked service can be created
Edit service	Checked service can be edited
Create odometer entry	Checked new odometer entry created
Edit odometer entry	Checked odometer entry edited
Create new contract	Checked new contract created
Change state of contract	Checked state of contract can be changed
Add trip	Checked trip created for particular contact
Edit trip	Checked trip can be edited
Renew contract	Checked contract can be renewed
Edit renew detail	Checked renew detail edited
Cancel contact	Checked contract can be canceled
Close contract	Checked contract can be closed
Create user	Checked new user is created
Edit user	Checked user can be edited
Create company	Checked new company is created
Create contract	Checked new contract is created from customer portal
Payment of contract	Checked payment process
Create odometer entry	Checked odometer entry create from driver



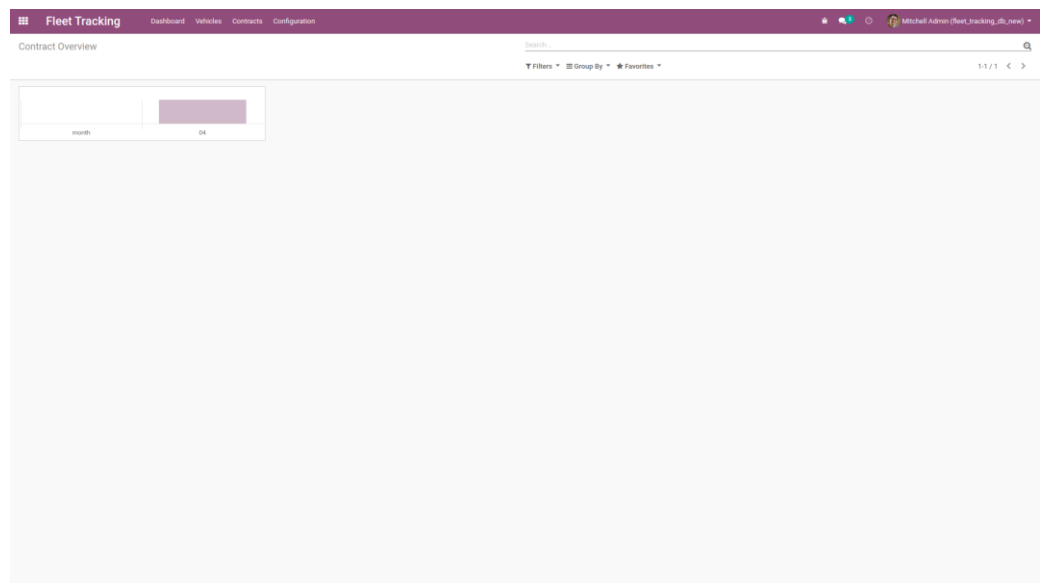
	portal
Live tracking	Partially Checked
Calculate address by move marker	Partially checked address can be calculated

## 12.0 Screen Shote

- Apps



- Dashboard



- **Vehicle management**
  - **list view**

Fleet Tracking

DashboardVehiclesContractsConfiguration

Mitchell Admin (fleet\_tracking\_db\_new)

vehicle

CREATEIMPORT

FiltersGroup ByFavorites

1-3 / 3

<input type="checkbox"/>	Model	License Plate	No Of Seats	No Of Doors	Color	Model Year	Description
<input type="checkbox"/>	Ford Mustang GT	GJ 1 RL 8683	5	2	Black	2019	
<input type="checkbox"/>	Cherrollet camaro	GJ 1 F 5907	5	4	White	2019	
<input type="checkbox"/>	Bmw M5	GJ 1 RG 7982	5	4	Mat-Gray	2019	

- **form view**

Fleet Tracking

DashboardVehiclesContractsConfiguration

Mitchell Admin (fleet\_tracking\_db\_new)

vehicle / New

SAVEDISCARD

Model

License Plate

No Of Seats0

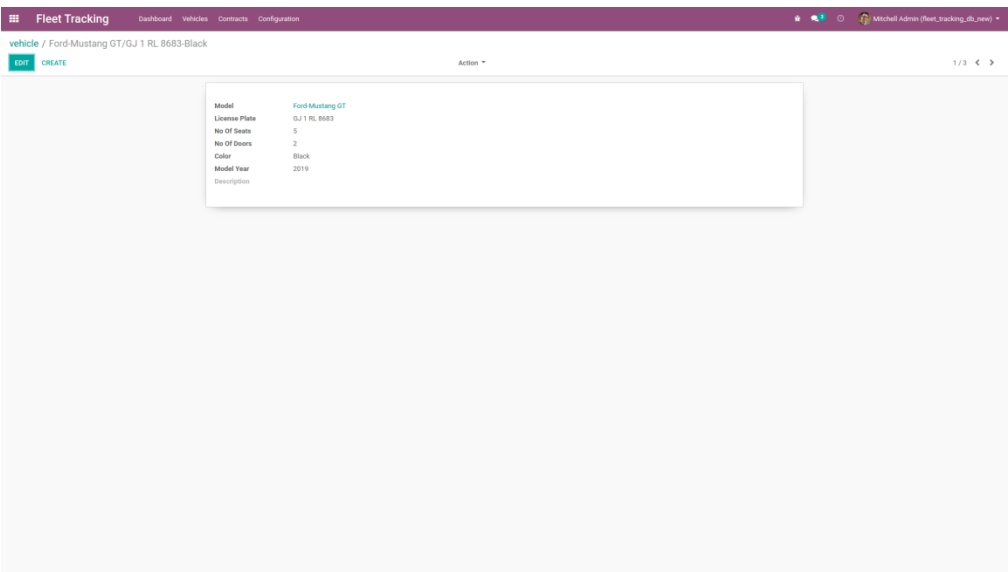
No Of Doors0

Color

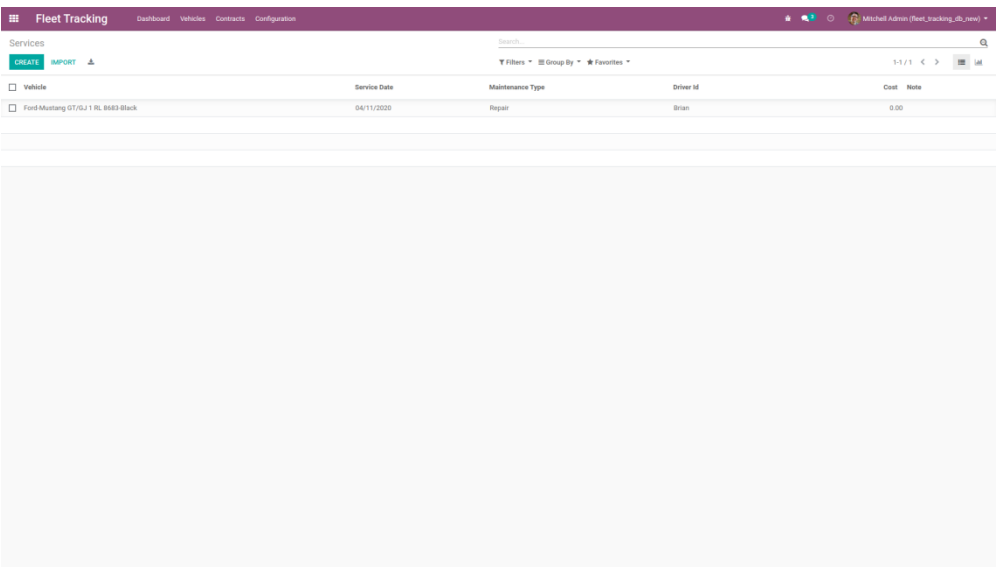
Model Year

Description

- Vehicle detail



- Service management
  - list view



- **form view**

**Fleet Tracking** | Dashboard | Vehicles | Contracts | Configuration

Services / New

[SAVE](#) [DISCARD](#)

Vehicle	
Service Date	04/11/2020
Maintenance Type	
Driver Id	
Cost	0.00
Note	

- **Service detail**

**Fleet Tracking** | Dashboard | Vehicles | Contracts | Configuration

Services / fleet.cost,1

[EDIT](#) [CREATE](#) Action

1/1 < >

Vehicle	Ford Mustang GT/GT1 RL 8683 Black
Service Date	04/11/2020
Maintenance Type	Repair
Driver Id	Brian
Cost	0.00
Note	

- Odometer management
  - list view

Fleet Tracking

Dashboard Vehicles Contracts Configuration

Mitchell Admin (fleet\_tracking\_db\_new)

Odometer

CREATE IMPORT

Filters Group By Favorites

1/1/1

Vehicle	Date	Driver	Odometer Reading	Unit
<input type="checkbox"/> Chevrolet-camaro/GU 1 P 2007-white	04/11/2020	Dominic	500.00	Km

- form view
- SS

Fleet Tracking

Dashboard Vehicles Contracts Configuration

Mitchell Admin (fleet\_tracking\_db\_new)

Odometer / New

SAVE DISCARD

Vehicle

Date

Driver

Odometer Reading

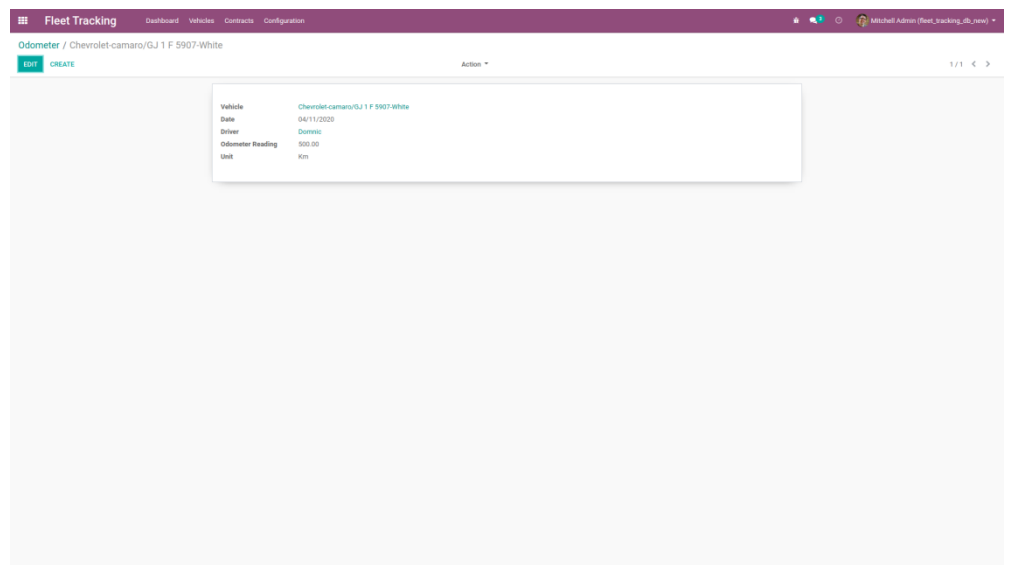
Unit

04/11/2020

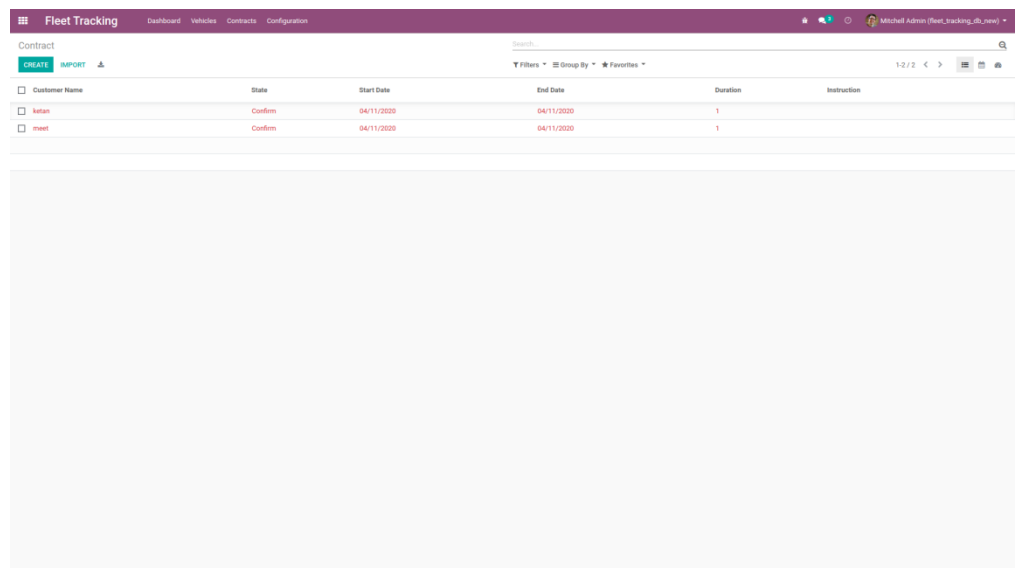
0.00

Km

- **Odometer detail**



- **Contract management**
  - **list view**



- **Form view**

Fleet Tracking

DashboardVehiclesContractsConfiguration

Michael Adams (fleet\_tracking\_db\_user)

Contract / New

SAVE

DISCARD

CONFIRM

CANCELLED

DRAFT

CONFIRM

CANCELLED

RUNNING

CLOSED

RENEW

0 Trip

Customer Name

Start Date

End Date

Duration

Vehicle

Instruction

04/11/2020

04/11/2020

1

- **Contract detail**

Fleet Tracking

DashboardVehiclesContractsConfiguration

Contract / ketan

EDITCREATE

Action

DRAFTCANCELLEDRUNNING

DRAFTCONFIRMCANCELLEDRUNNINGCLOSEDRENEW

1 / 2

Customer Nameketan

Start Date04/11/2020

End Date04/11/2020

Duration1

VehicleFord Mustang 017-021 RL 8063-BL

Instruction

0 Trip



- **Cancel contract**

The screenshot shows the 'Cancelled Reason' modal in the Fleet Tracking system. The modal has a title bar with a close button. It contains two input fields: 'Cancelled Date' with the value '04/11/2020' and 'Cancelled Reason' which is currently empty. At the bottom of the modal are two buttons: 'SUBMIT' and 'CANCEL'. In the background, a contract details card is visible for 'Contract / ketan', showing fields for Customer Name (ketan), Start Date (04/11/2020), End Date (04/11/2020), Duration (1), and Vehicle (Ford Mustang GT 3.5L V6 EcoBoost).

- **Renew contract**

The screenshot shows the 'Renew Contract' modal in the Fleet Tracking system. The modal has a title bar with a close button and a 'CONFIRM' button. It contains several input fields: 'Contract Id' (ketan), 'Renew Date' (04/11/2020), 'Start Date' (04/11/2020), 'End Date' (04/11/2020), and 'Duration' (1). Below these is a table for 'Vehicle' with columns: Model, License Plate, No Of S..., No Of D..., Color, Model Year, and Description. There is an 'Add a line' link below the table. At the bottom of the modal are two buttons: 'SAVE' and 'DISCARD'. In the background, a contract details card is visible for 'Contract / ketan', showing fields for Customer Name (ketan), Start Date (04/11/2020), End Date (04/11/2020), Duration (1), and Vehicle (Ford Mustang GT 3.5L V6 EcoBoost).

- Contract renew detail

Fleet Tracking

DashboardVehiclesContractsConfiguration

Michel Admin (fleet\_tracking\_db\_new)

Contract / ketan

editCREATE

Action

1 / 2 <>

DRIFTCONFIRMCANCELLEDRUNNINGCLOSEDRENEW

0 Trip

Customer Nameketan

Start Date04/11/2020

End Date04/11/2020

Duration1

VehicleFord Mustang GT (5.0L 1 RL 3682-BEnew MS (5.0L 1 RL 3682-Mat-Grey)

Closed ReasonChange my mind

Closed Date04/11/2020

Instruction

Renew Detail

Renew Date	State	Start Date	End Date	Duration	Vehicle	Instruction
04/11/2020	Confirm	04/11/2020	04/11/2020	1	1 record	

- Trip list view

Fleet Tracking

DashboardVehiclesContractsConfiguration

Michel Admin (fleet\_tracking\_db\_new)

Contract / meet / Assignment Logs

CREATEIMPORT

search

Y FiltersGroup ByFavorites

1 / 1 <>

☐ Date

Contract Id

Driver Id

No Of Person In Trip

☐ 04/12/2020

meet

Brian

2

- **Trip form view**

The screenshot shows the 'Fleet Tracking' application interface. The top navigation bar includes 'Dashboard', 'Vehicles', 'Contracts', and 'Configuration'. The user is logged in as 'Mitchell Admin (fleet\_tracking\_db\_admin)'. The main content area is titled 'Contract / meet / New' and features a 'SAVE' button and a 'DISCARD' link. A modal form is displayed in the center, containing the following fields:

- Date: 04/11/2020
- Contract Id: meet
- Vehicle Ids: (dropdown menu)
- Driver Id: (dropdown menu)
- No Of Person In Trip: 0
- Address: Street1
- Below the address field is a link 'Add a line' and an empty text input field.

- **Trip address form**

The screenshot shows the 'Fleet Tracking' application interface with the 'Add Address' modal form open. The modal form contains the following fields:

- Address: (text input field)
- Street 2: (text input field)
- City: (text input field)
- State: (dropdown menu, currently showing '23')
- Note: (text input field)

At the bottom of the modal form, there are three buttons: 'SAVE & CLOSE', 'SAVE & NEW', and 'DISCARD'. The background of the application is dimmed.

- Trip detail

Fleet Tracking | Dashboard | Vehicles | Contracts | Configuration

Contract / meet / Assignment Logs / meet

edit create

Action

1/1 < >

Date: 04/12/2020

Contract Id: meet

Vehicle Ids: Chevrolet camaro, GJT F 5302-98...

Driver Id: Brian

No Of Person In Trip: 2

Address: Street1, Infocity

- Customer
  - list view

Fleet Tracking | Dashboard | Vehicles | Contracts | Configuration

Customer

create import

Search

Filters | Group By | Favorites

1/3 < >

<input type="checkbox"/>	Name	Mobile	Email
<input type="checkbox"/>	ketan	8353714121	ketan01@gmail.com
<input type="checkbox"/>	meet	8962796357	meet67@gmail.com
<input type="checkbox"/>	vital	8353714121	vital7@gmail.com

- form view

**Fleet Tracking** | Dashboard | Vehicles | Contracts | Configuration

Customer / New

[SAVE](#) [DISCARD](#)

You are inviting a new user.

Name

Email Address

Phone

Mobile

- Customer detail

**Fleet Tracking** | Dashboard | Vehicles | Contracts | Configuration

Customer / ketan

[EDIT](#) [CREATE](#)

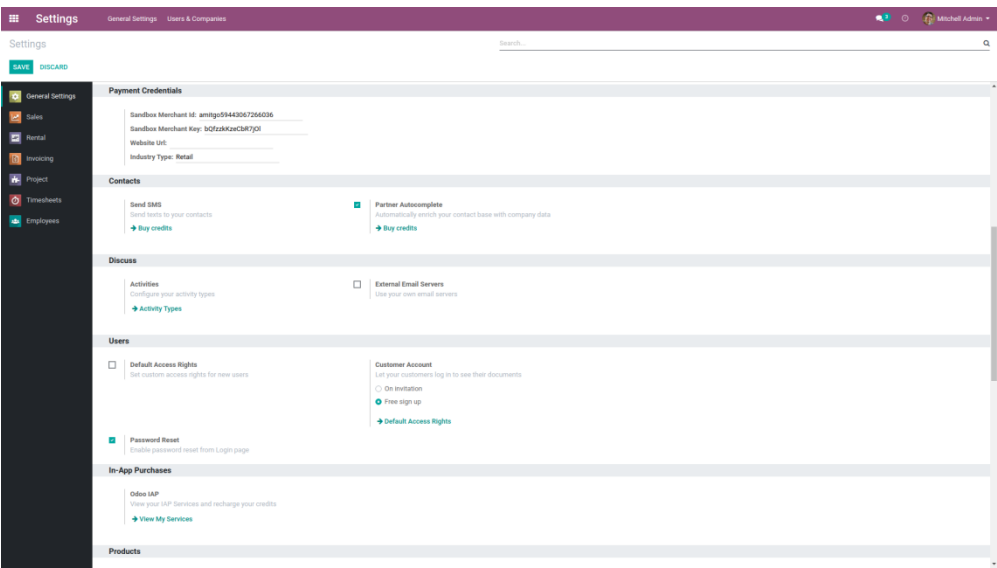
ketan

ketan

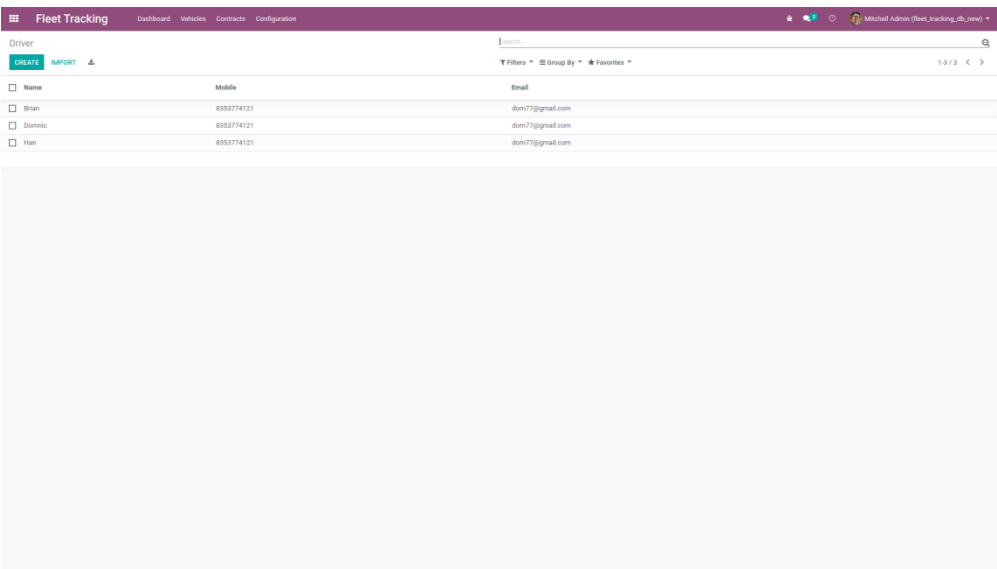
Phone

Mobile

- App setting



- Driver
  - list view



- **form view**

Settings

General SettingsUsers & CompaniesTransactionsTechnical

Users / New

SavesDISCARD

NEVER CONNECTEDCONFIRMED

Name

Email Address

Access RightsPreferences

Multi Companies

Allowed CompaniesYour Company

Default CompanyYour Company

User Type

User Types

- Internal User
- Portal
- Public

Users TypeDriver

Driving Licence Number

Birth Date

Groups

Access Rights

Record Rules

- **Driver detail**

Settings

General Settings | Users & Companies | Transactions | Technical

Users / Domic

EDIT

CREATE

SEND AN INVITATION EMAIL

NEVER CONNECTED

CONFIRMED

2 / 9 < >

An invitation email containing the following subscription link has been sent:

http://localhost:8080/web/invite\_password?id=first\_tracking\_db\_new&token=md510416a70b8e8KQuangJ

3 Groups

28 Access Rights

15 Record Rules

Domic

Domic

Related Partner

Domic

Access Rights

Preferences

Multi Companies

Allowed Companies

Default Company

YourCompany

User Type

User types

Portal

Users Type

Driving Licence

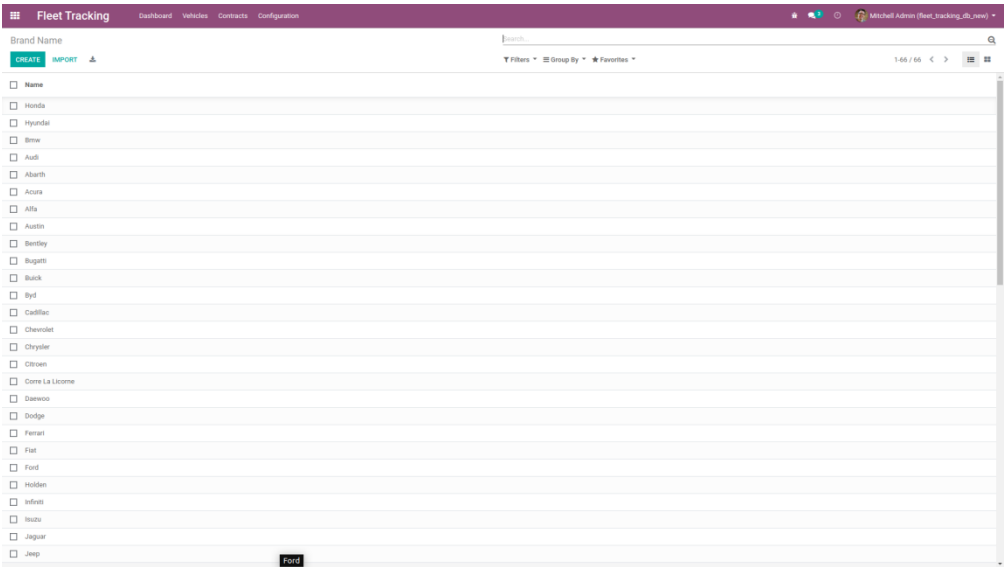
RJ 13/OLD/13/ 11111

Woundar

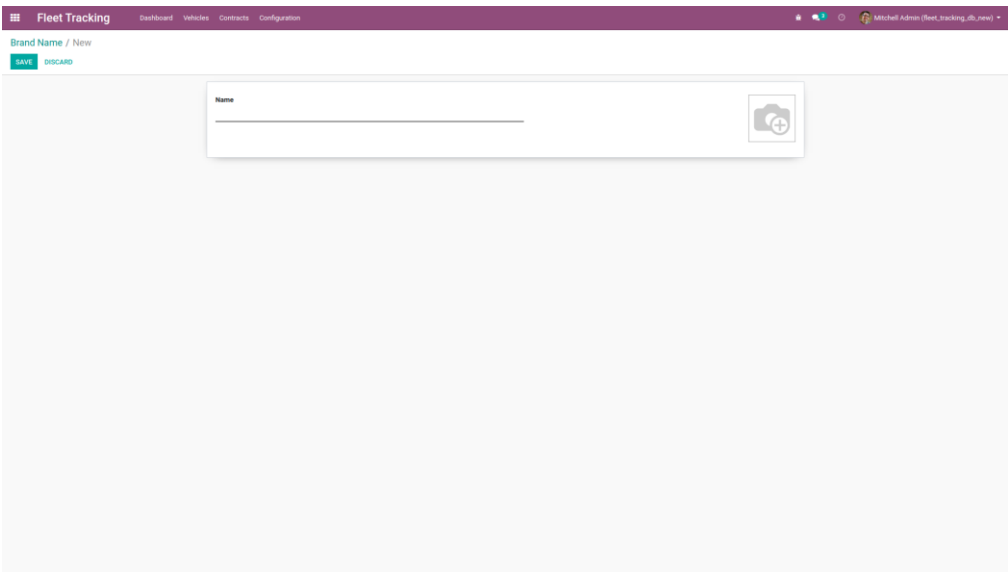
Birth Date

01/27/1994

- **Manufacturer**
  - **list view**

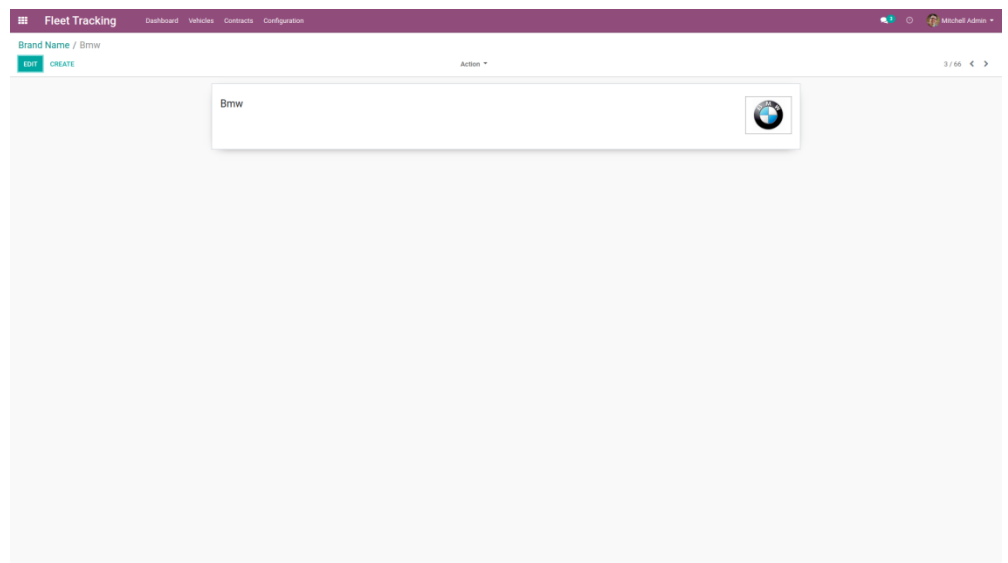


- **form view**

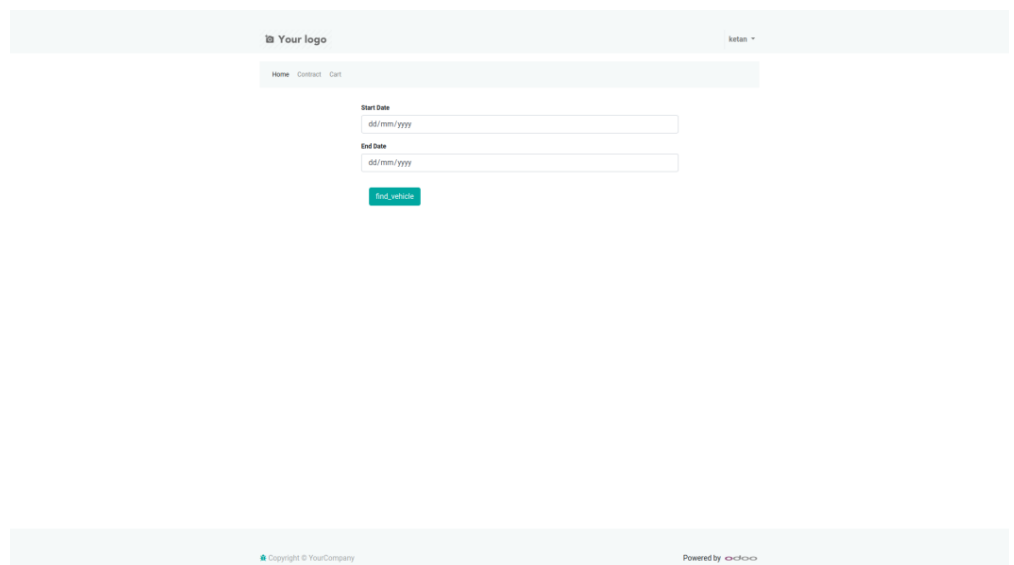




- **Manufacturer detail**



- **Customer portal view**
  - **Contract view**



Your logo

ketan

HomeContractCart

Start Date

2020-04-12

End Date

2020-04-13

Vehicle

Select Vehicle

Note

Back

next

Copyright © YourCompany

Powered by <img alt="Paytm logo" data-bbox="725 303 770 308"/>

Your logo

ketan

HomeContractCart

contract id

6

Vehicle License Plate Number

GJ 1 RL 8683

Start Date

2020-04-12

End Date

2020-04-13

Amount

100

make\_payment

Copyright © YourCompany

Powered by <img alt="Paytm logo" data-bbox="725 576 770 581"/>

amit govt limited

< GO BACK

amit govt limited Order

Transaction ID: 164688766

Amount to be paid

₹100

SELECT AN OPTION TO PAY

PAYtm

Pay easily using your saved payment methods

Mobile number registered with Paytm

+91 7777777777






Remember this mobile number for future login

Proceed

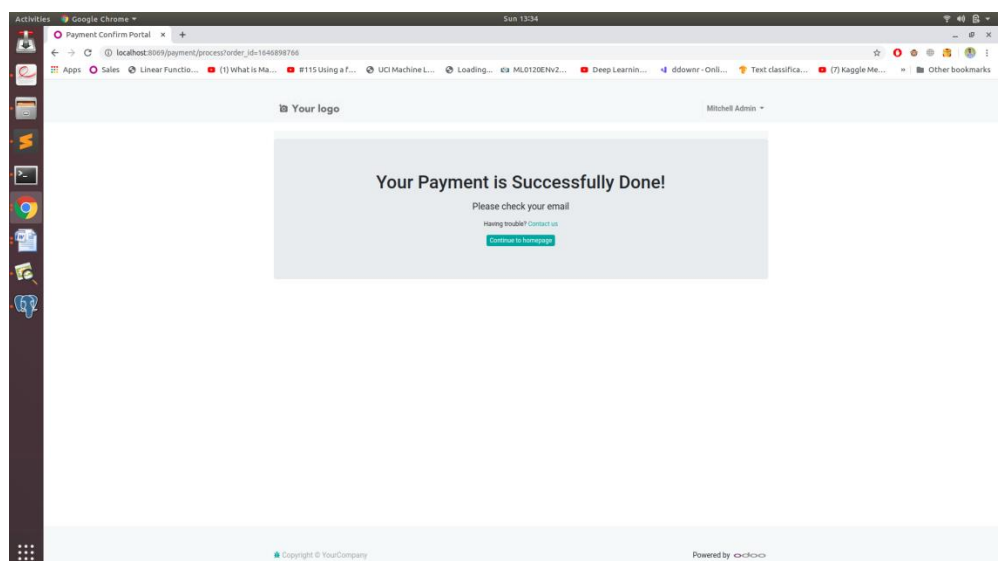
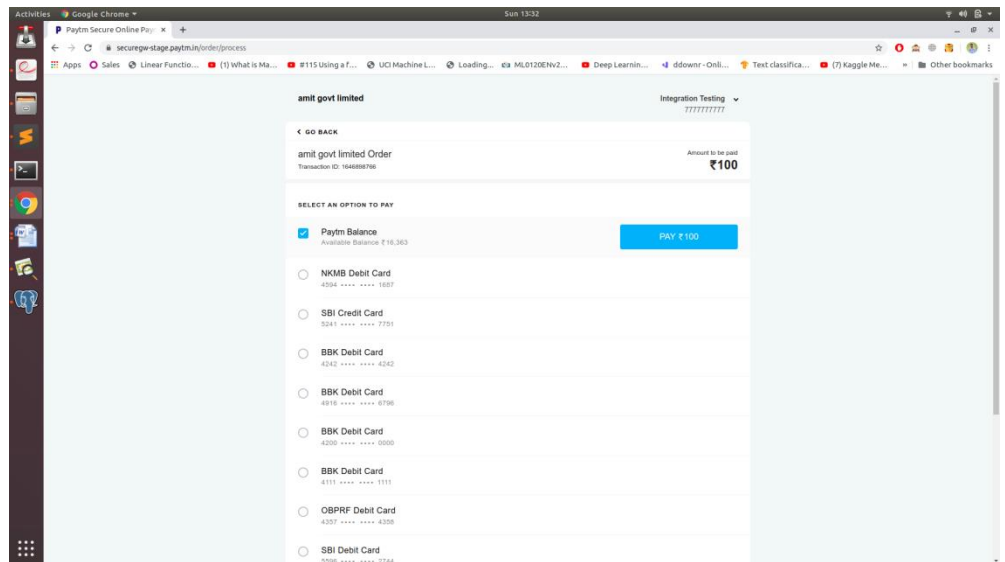
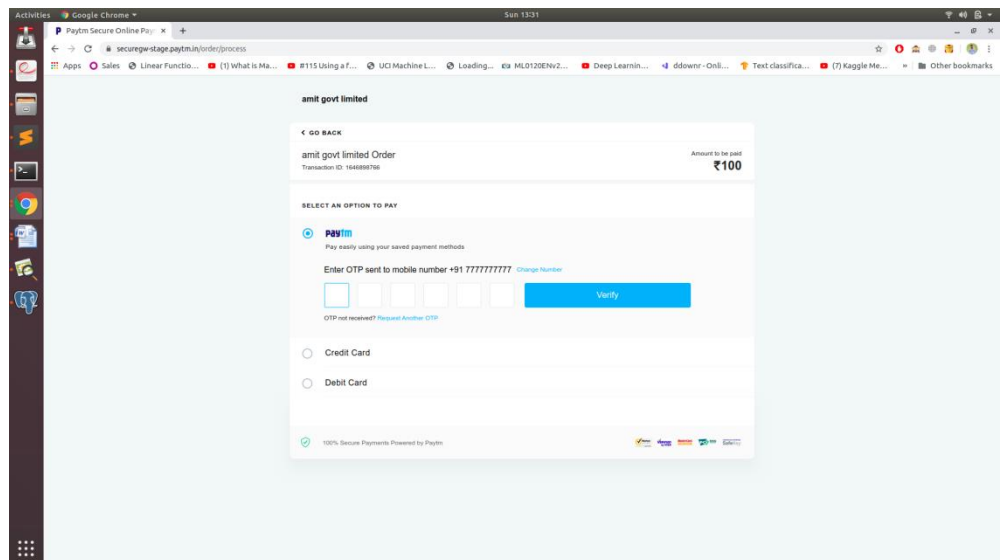
Credit Card

Debit Card

100% Secure Payments Powered by Paytm



50 | Page



- Driver portal view
  - Home


Your logo

Domestic

HomeOdometerMapTrip Address

Vehicle	Driver	Date	Reading	Unit
Chevrolet camaro / GJ 1 F 9907 / White	Domestic_RJ+13/SLC/12/ 11111	2020-04-11	500.0	Km

Copyright © YourCompany

Powered by 

Odometer

Your logo

Domestic

HomeOdometerMapTrip Address

Vehicle

Select Vehicle

Date

dd/mm/yyyy


Odometer Reading

Unit

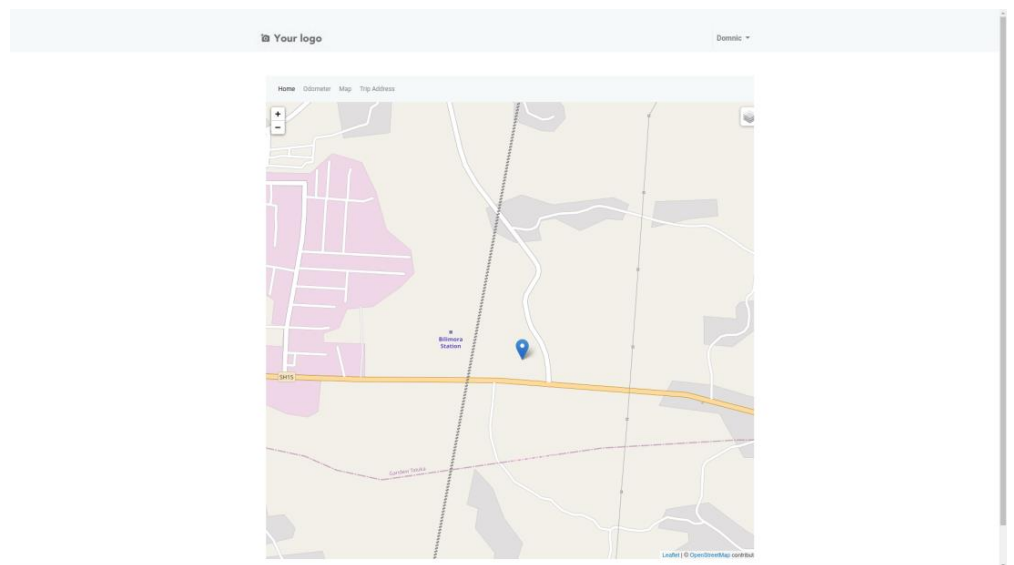
Km

Submit

Copyright © YourCompany

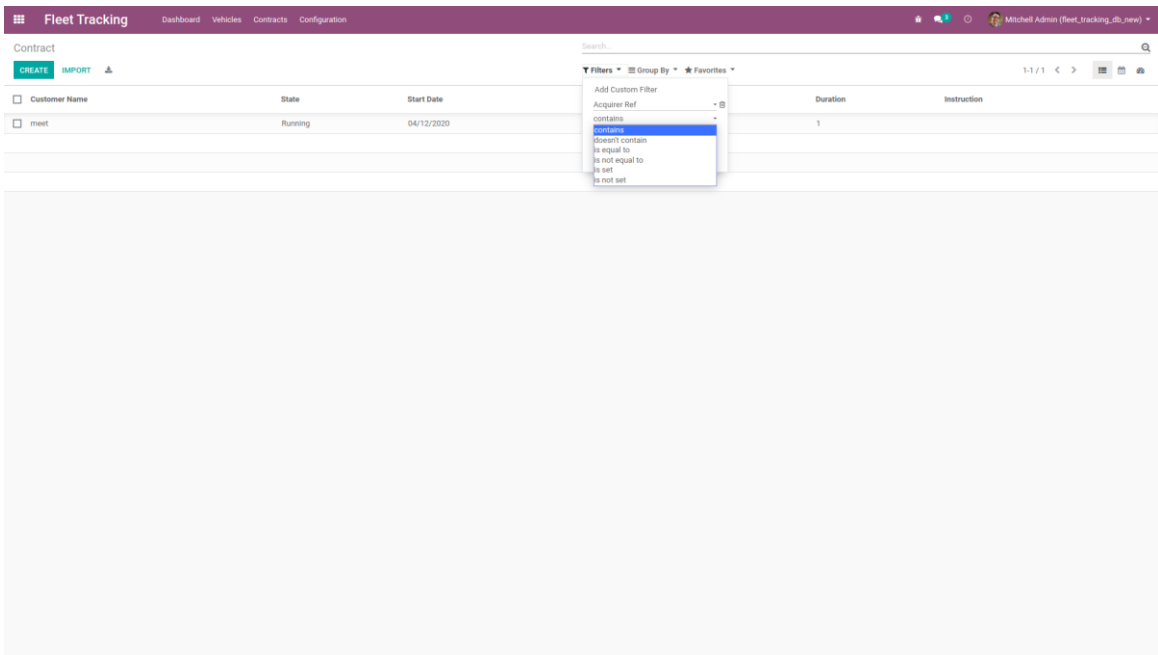
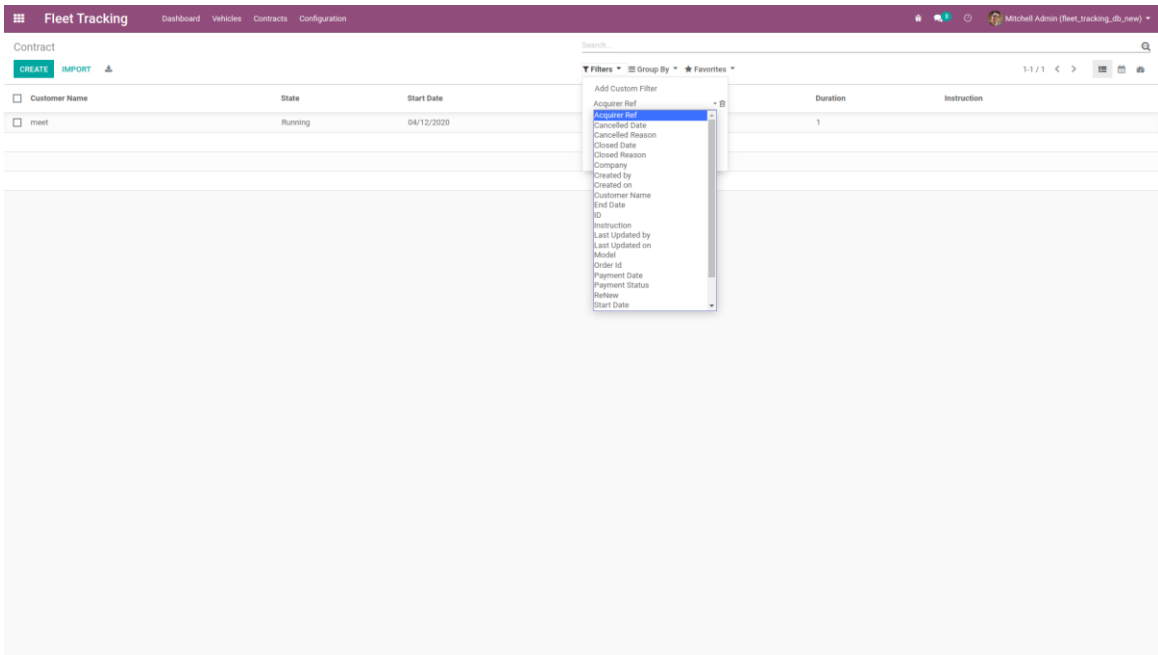
Powered by 

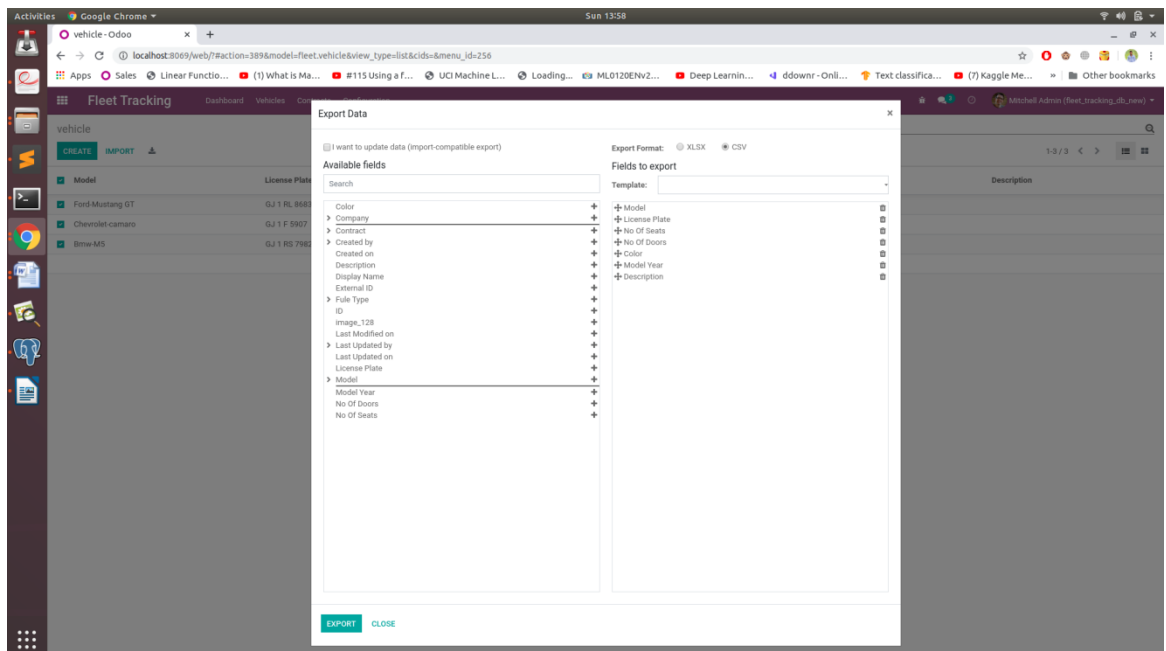
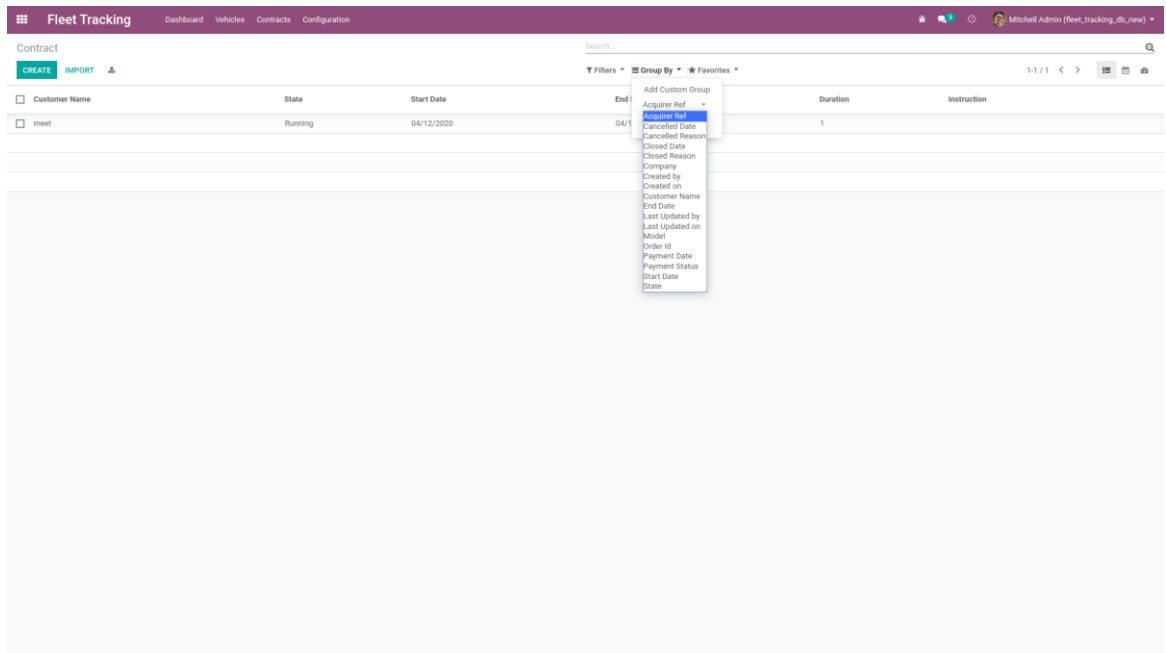
- **Map**



# 13.0 Reports

For report **odoo** provide facility of filter data as per required condition, group by data as per chosen field, search facility, and also provide facility to export data in xlsx or csv format.





## 14.0 Future Enhancements

In future we are planning to add more features in live tracking like

- Smart routing
- Store live tracking data in server and give feature to keep watch on vehicle
- Geofancing
- Analyze Driver behavior using machine learning
- Vehicle diagnosis
- Watch on fuel
- Live chatting between drives and office
- Show driver nearby drivers
- Add more payment method
- Add feature of travel history in customer side
- Add feature of rating in customer side



## 15.0 Bibliography

<https://www.odoo.com/documentation/13.0/>

<https://www.altexsoft.com/blog/business/fleet-management-software-key-functions-solutions-and-innovations/>

[https://shodhganga.inflibnet.ac.in/bitstream/10603/199078/10/10\\_chapter2.pdf](https://shodhganga.inflibnet.ac.in/bitstream/10603/199078/10/10_chapter2.pdf)

[https://www.academia.edu/35464320/Comparative\\_Analaysis\\_of\\_fleet\\_Management\\_Technology\\_usage\\_in\\_Ethiopia](https://www.academia.edu/35464320/Comparative_Analaysis_of_fleet_Management_Technology_usage_in_Ethiopia)