

# **VEHICLE MANAGEMENT SYSTEM**

## **1. INTRODUCTION**

The Vehicle management System using sales Force is a software application developed to manage an organization fleet of vehicles efficiently. It stores and manages vehicle information such as make , model,registration,insurance and maintance records.

It also tracks vehicle usage and expenses , providing reports and analytics for informed decision – making .The system is user-friendly,with access for authorized personel and integrates with existing Sales Force data and workflows.It aims to reduce costs,increase efficiency and improve decision making.

### **1.1 Overview**

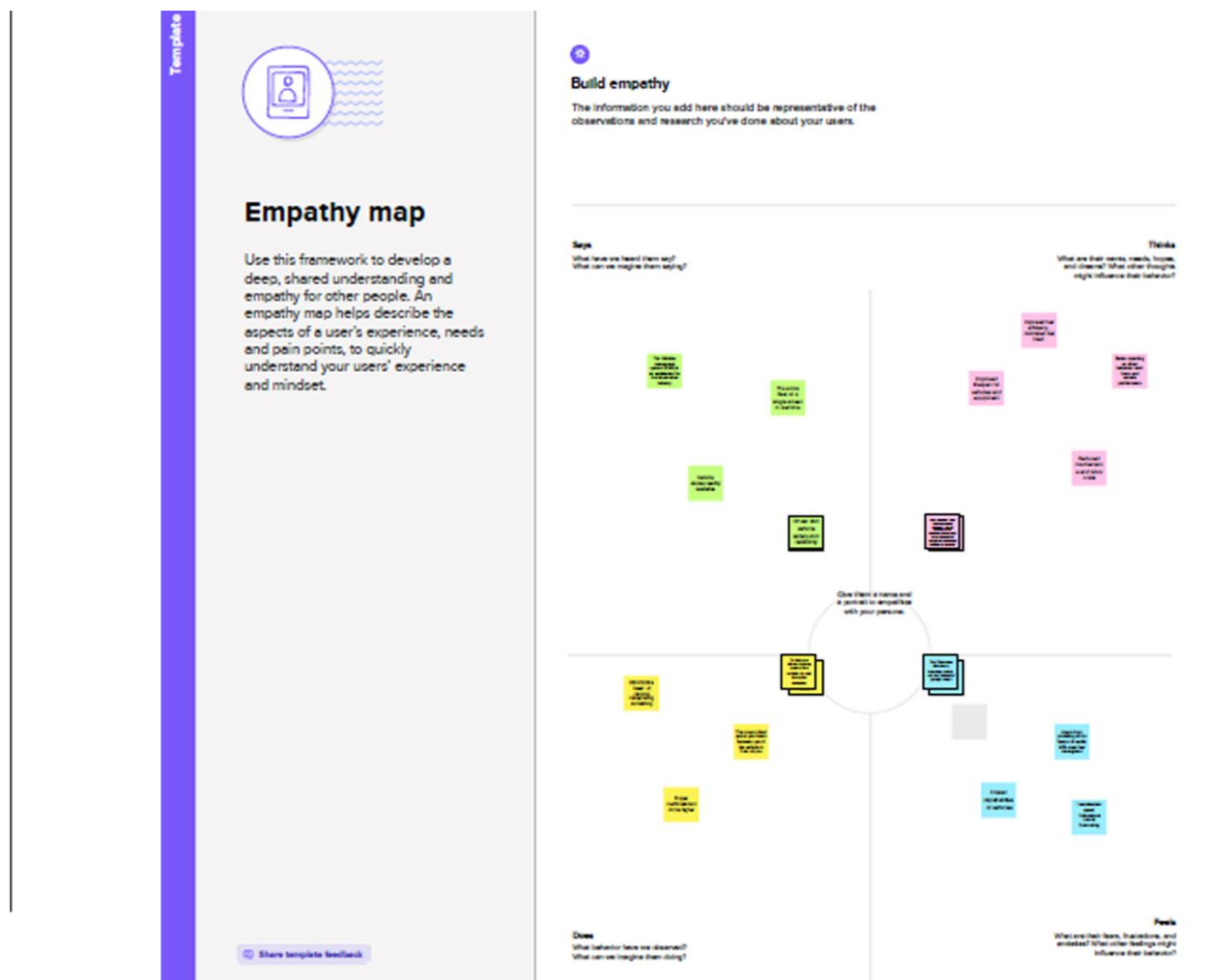
A Vehicle management system using sales force is a tool that helps business manage their vehicle fleet. It uses Salesforce's features to track vehicle information,maintanance schedules,driver information and fuel consumption.

### **1.2 Purpose**

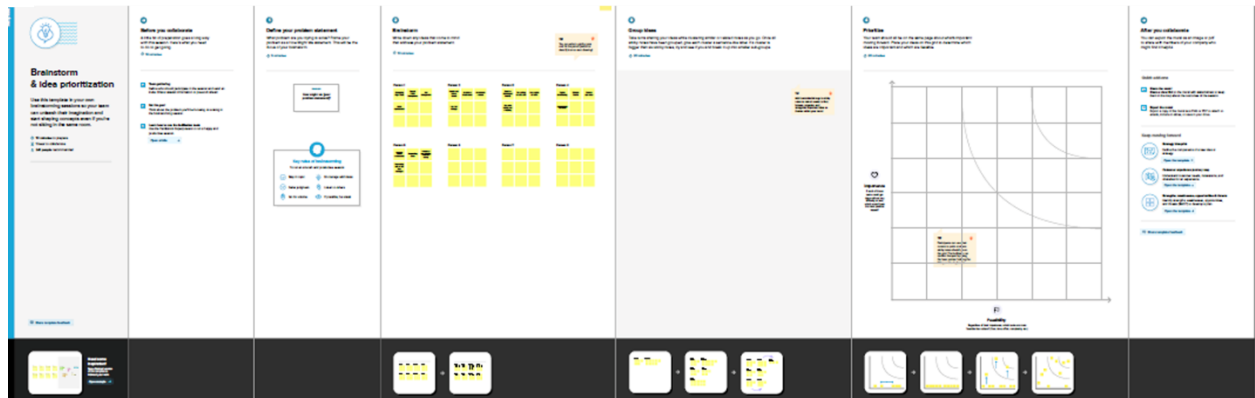
A vehicle management system using salesforce can be a very useful project for businesses that manage a fleet of vehicles, such as bus rental companies, logistics companies and transportation companies. Here are some of the things that can be achieved with a vehicle management system using Salesforce.

## 2. PROMBLEM DEFINITION & DESIGN THINKING

### 2.1 Empathy Map Canvas



## 2.2 Brains tromindg & Idea Prioritization Template



## 3.RESULT

### 3.1 Data Types

S NO.	Field Names	Data Types
1.	Customer Name	Text
2	Customer Mobile No	Number
3	Vehicle Type i)2 wheeler ii)4 wheeler	Picklist
4.	2WHEELERS i) HERO ii)HONDA iii)BAJAJ iv)ROYAL ENFIELD v)TVS vi)KINETIC vii)OLA viii)JAWA ix)SD x)BATTERY	Picklist

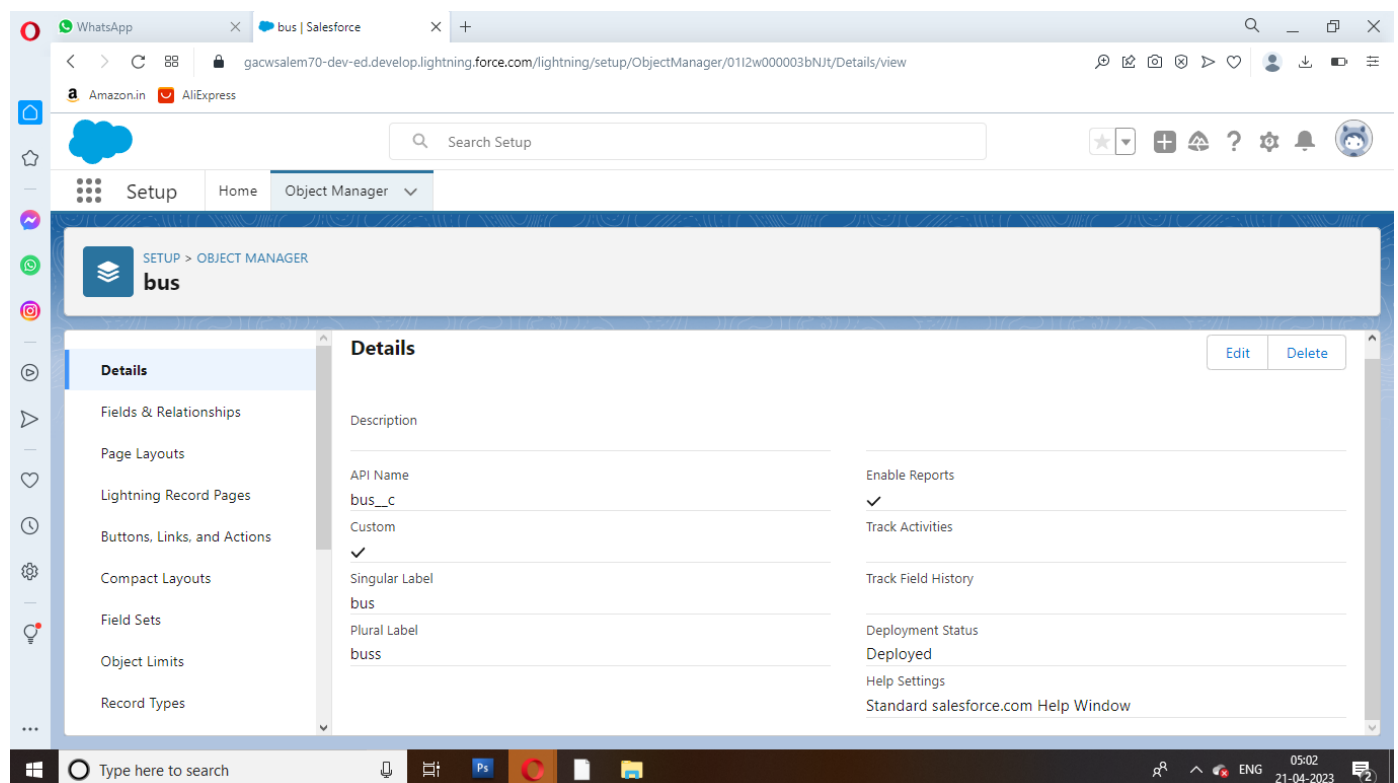
5	4WHEELERS i) RENAULT ii)SKODA iii) HONDA iv)HYUNDAI	Picklist
6.	Vehicle Name	Text
7.	Vehicle No	Text
8.	Chassic No	Text
9.	Colour	Text
10.	Body Type	Text

## 3.2 Activity & Screenshot

(Milestone-1:OBJECT)

### Activity-1 : Creation Of Bus Object

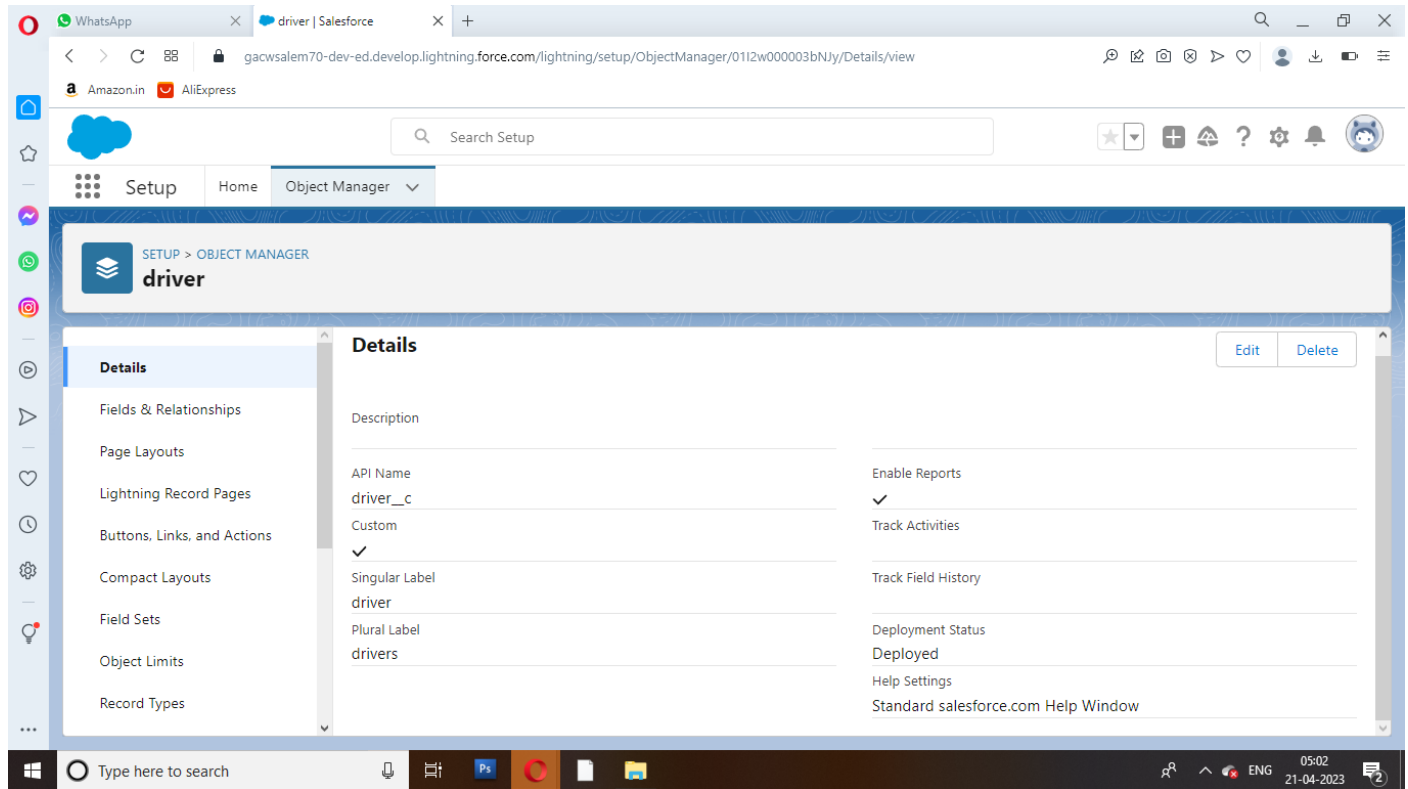
#### # Creation of Bus Object



(Milestone-2:OBJECT)

## Activity-2 : Creation Of Driver Object

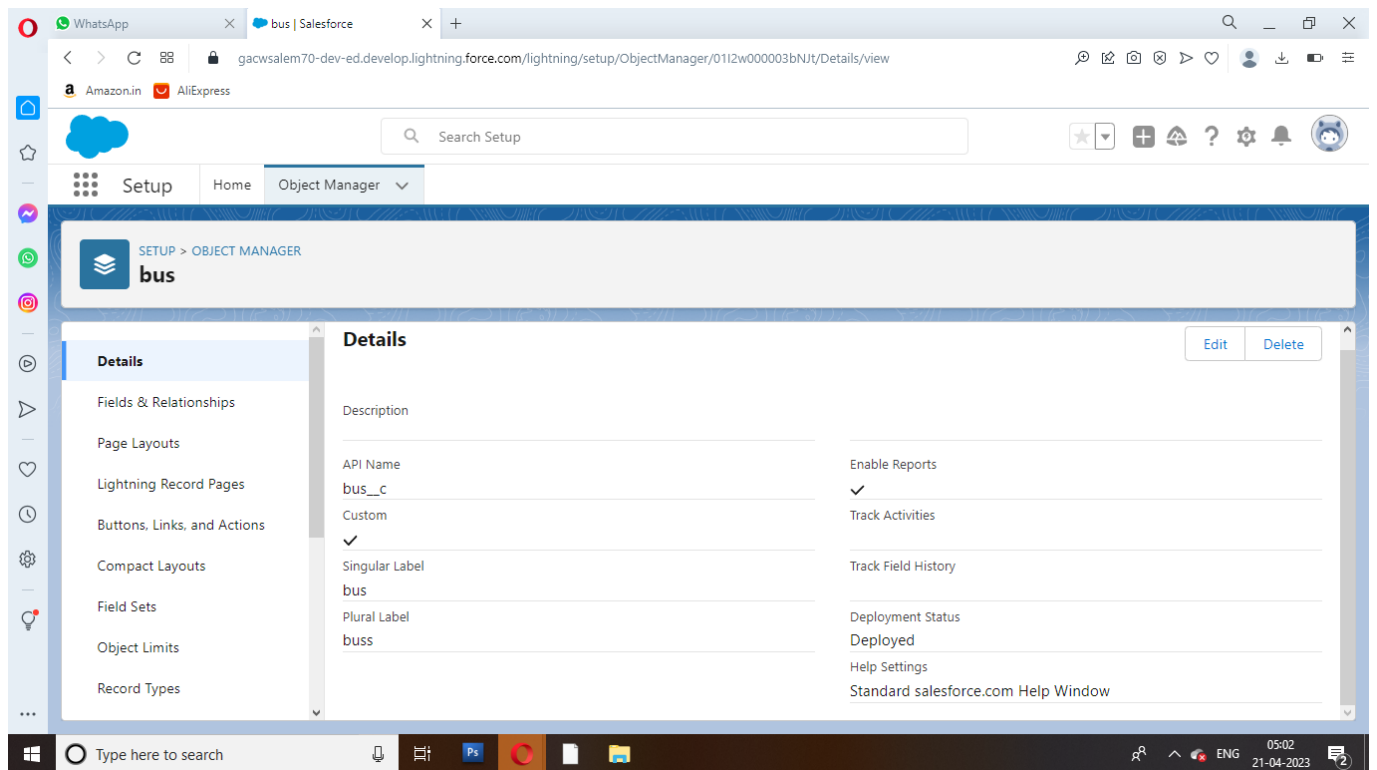
### #Creation of Driver Object



(Milestone-3:LIGHTING APP)

## Activity :1 Creat the Lighting App

### # creat of lighting app



(Milestone-4: FIELDS & RELATIONSHIP )

## Activity :1 Create Of The Field Bus Object

# Create Of The Field Bus Object

bus | Salesforce

gacwsalem70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003bNt/FieldsAndRelationships/view

Amazon.in AliExpress

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER  
bus

Details

**Fields & Relationships**  
23 Items, Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
body type	body_type__c	Text(30)		
bus	bus__c	Lookup(bus)		✓
chassic no	chassic_no__c	Text(30)		
colour	colour__c	Text(30)		
condition	condition__c	Picklist		
Created By	CreatedById	Lookup(User)		
customer mobile number	customer_mobile_number__c	Number(18, 0)		
customer name	customer_name__c	Text(30)		

Type here to search

07:15  
21-04-2023

## Activity :2 Create Of The Field Bus Object

### # Create Of The Field Bus Object

bus | Salesforce

gacwsalem70-dev-ed.develop.lightning.force.com/lightning/setup/ObjectManager/0112w000003bNt/FieldsAndRelationships/view

Amazon.in AliExpress

Search Setup

Setup Home Object Manager

SETUP > OBJECT MANAGER  
bus

Details

**Fields & Relationships**  
23 Items, Sorted by Field Label

Quick Find

New Deleted Fields Field Dependencies Set History Tracking

mobile no	mobile_no__c	Number(18, 0)		
Owner	OwnerId	Lookup(User,Group)		✓
seats	seats__c	Number(18, 0)		
start date	start_date__c	Date/Time		
tk	Name	Text(80)		✓
vehicle includes	vehicle_includes__c	Picklist (Multi-Select)		
vehicle name	vehicle_name__c	Text(30)		
vehicle no	vehicle_no__c	Text(30)		
vehicle type	vehicle_type__c	Number(18, 0)		

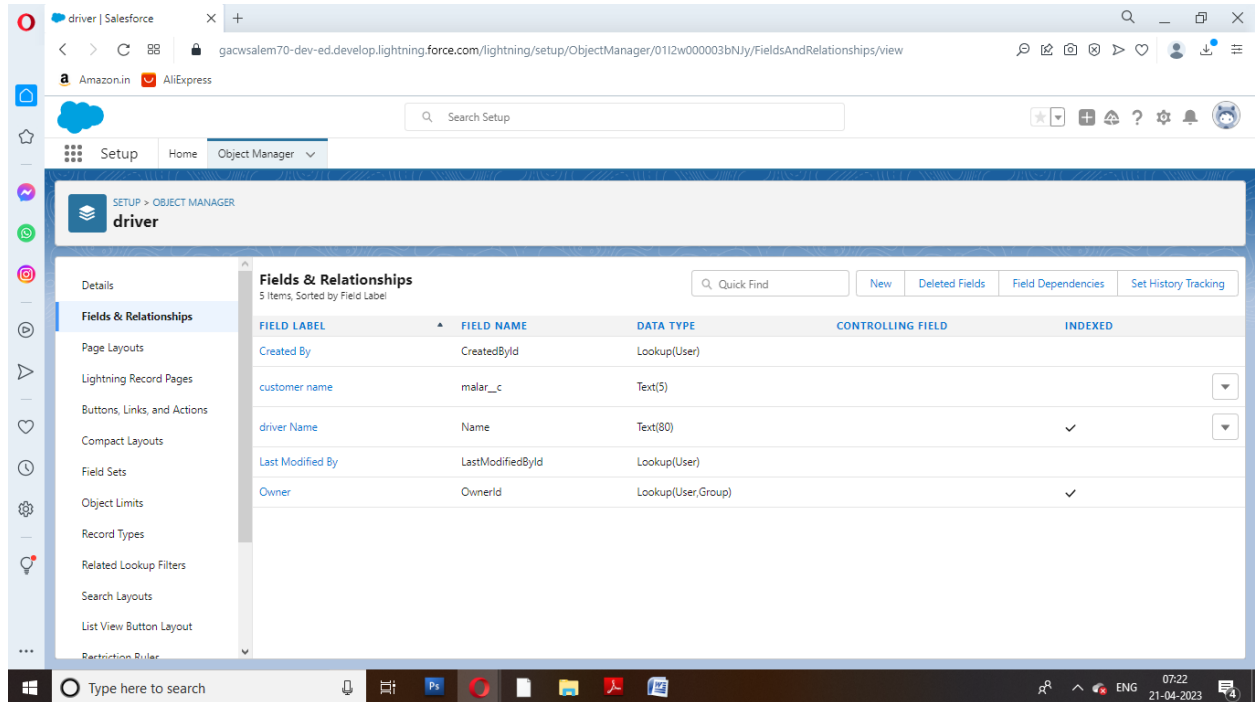
Type here to search

07:17  
21-04-2023

## (Milestone-4: FIELDS & RELATIONSHIP )

### Activity :3 Create Of The Field Driver Object

#### # Create Of The Field Driver Object



The screenshot shows the Salesforce Setup interface for the 'driver' object. The 'Fields & Relationships' section is active, displaying a table of fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are:

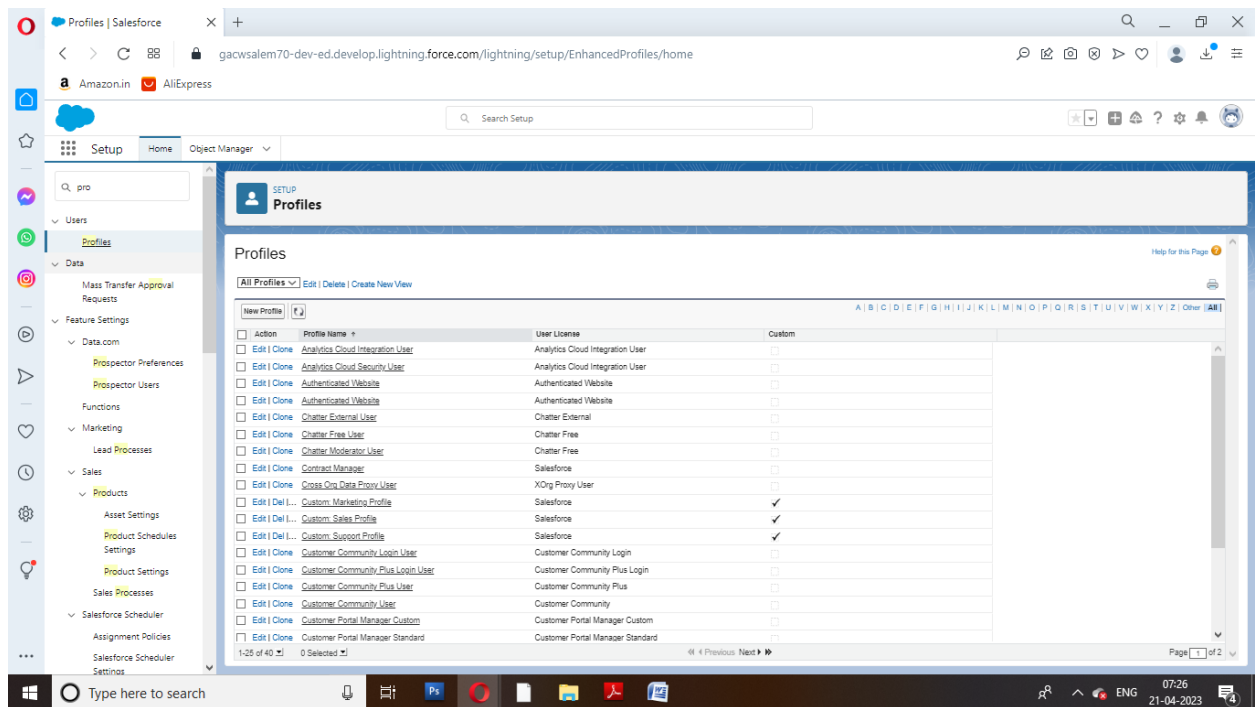
FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
customer name	malar__c	Text(5)		
driver Name	Name	Text(80)		✓
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User/Group)		✓

## (Milestone-5: PROFILE)

### Activity :1 Create On Profile

#### # Create On Profile

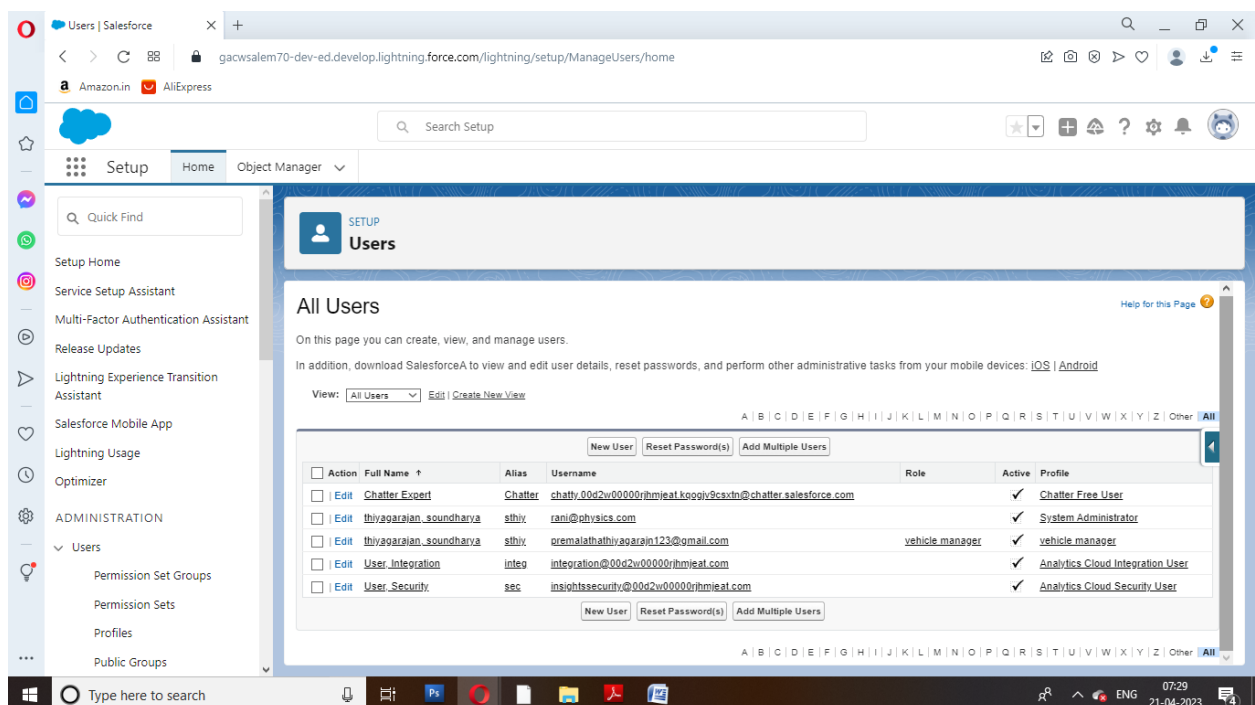




(Milestone-6: USERS)

## Activity :1 Create A Users

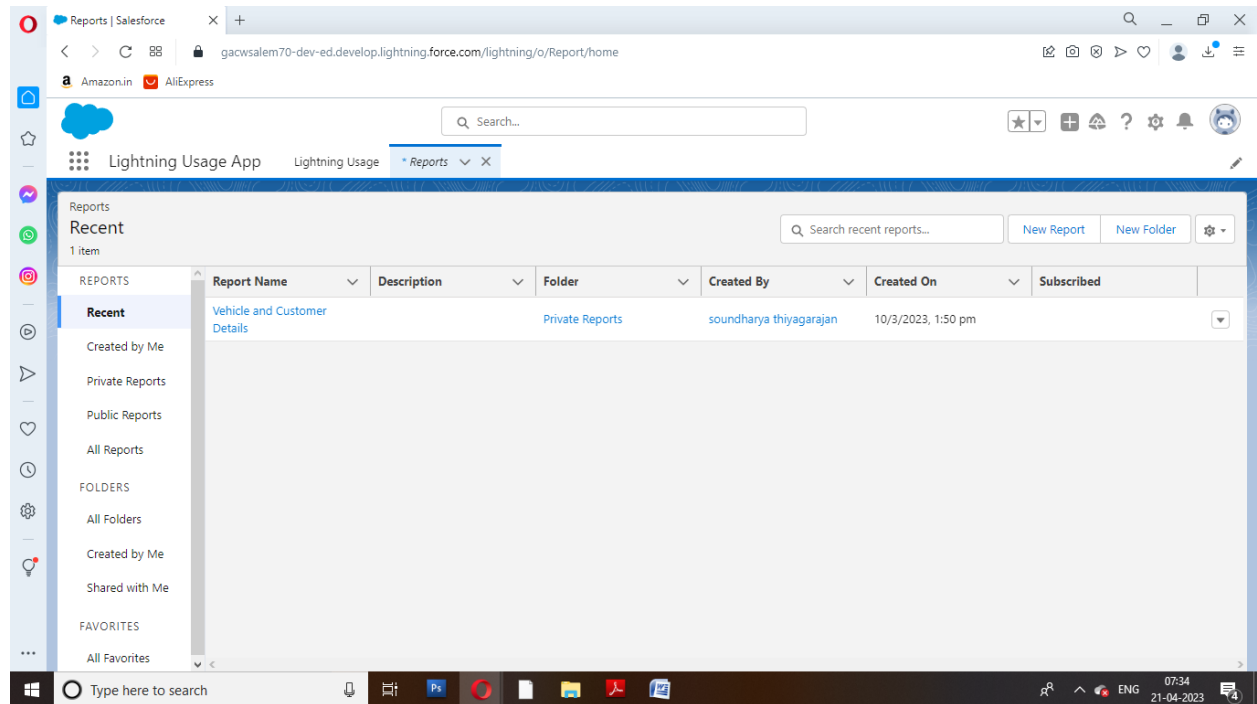
### # Create a Users



## (Milestone-7: REPORTS)

### Activity :1 Create Reports

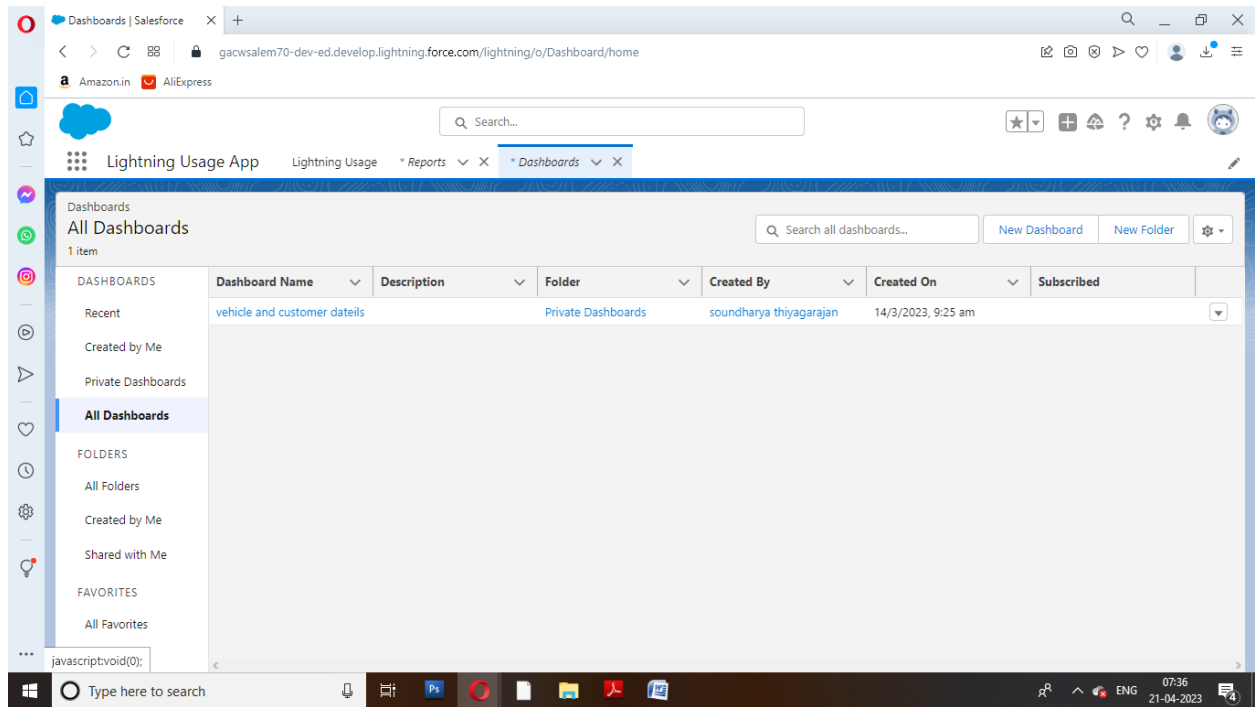
#### # Create Reports



## (Milestone-8: DASHBOARDS)

### Activity :1 Create Dashboards

#### # Create Dashboards



## 4 TRAILHEAD PROFILE PUBLIC URL:

TEAM LEAD: <https://trailblazer.me/id/soutm>

Team Member 1 – <https://trailblazer.me/id/rupan22>

Team Member 2 – <https://trailblazer.me/id/ssnega2>

Team Member 3- <https://trailblazer.me/id/sjayanthi9>

Team Member 4 – <https://trailblazer.me/id/hharipriya4>

## 5 ADVANTAGES & DISADVANTAGES

### (ADVANTAGES)

**Benefits of the vehicle management system:** The basic necessities of the vehicle management system are mentioned as below:

- **Improved Record Keeping:** A vehicle management system keeps the record of every important function & daily activities such as vehicle type, vehicle fitness, document validity date, insurance policy, etc. It also keeps the record of driver & helper details to monitor & improve their productivity. Beside trip & fleet operation records also be recorded by it. To keep your company lifetime detail a vehicle management system provides you the best opportunity.
- **Reducing Fuel Corruption and Costs:** Vehicle management system tracks all vehicle performance, employee performance, Inventory expense, Maintainers & maintenance expenses, etc. from A to Z. As a result, corruption & expenses can be reduced through it.
- **Increasing Productivity and Enhancing Customer Service:** Applying an ultimate automated tracking & management system like a vehicle management system you can increase productivity & Ensure the best customer service.
- **Improving Employee Efficiency:** Though it has the integrated system to track & evaluate your employee performance, so you have the opportunity to reward your best employee & furnish your evil worker. So if you have an automation system, you have the system of improving your employee's efficiency.

## **(DISADVANTAGES)**

Following are the drawbacks or **disadvantages of Fleet Management**:

- ➡ Active tracking based fleet management requires monthly subscription charges and data usage charges.
- ➡ It is difficult to manage and maintain fleet management system due to use of multiple technologies such as cloud servers, cellular wireless systems, fleet management software etc.
- ➡ It requires skilled resources to maintain such system. This increases maintenance costs.
- ➡ GPS device used in fleet management is power hungry which drains battery faster.
- ➡ GPS signal does not pierce through the walls, solid structures, under water or dense trees. Hence it is difficult to track the fleet when they are in such regions or behind such locations.

## **6 APPLICATIONS**

( Applications of a VMS – Examples and Strategies )

- \* Applicaton 1: Tracking Customers
- \* Applicaton 2: Collectng Data for Marketng
- \* Applicaton 3: Improving Interactons and Communicatons
- \* Applicaton 4: Streamlining Internal Sales Processes

\* Application 5: Planning Your Operations.

## 7 CONCLUSION

### Conclusion

Fleet management is essential to a smooth operating fleet of vehicles, no matter the size. Tracking the location and condition of the vehicles, maintenance schedules, and fuel usage helps manage costs and keeps the equipment working longer. Likewise, tracking the behaviors and habits of drivers ensures the vehicles are operated safely and efficiently which helps keep costs low. If you're interested in learning more about fleet management. Our fleet management specialists will be happy to answer any questions you have.

## 8 FUTURE SCOPE

**Six vehicle management system must-have features**

Any modern fleet owner knows that an all-around vehicle management platform is an indispensable tool to maximize fleet productivity; not to mention, cut down on unnecessary operational costs. Surely, vehicle management systems nowadays, include a host of different features. However, there are a few, without which it's hard to imagine how people used to manage fleets back in the day.

Without further ado, here are six must-have features in a vehicle management platform that will help you streamline your business!

## **1. Fleet vehicle tracking**

Needless to say, knowing the real-time location of your assets on the map is crucial. That's why GPS vehicle tracking is such an essential part of a vehicle management system. With fleet vehicle tracking, you know exactly where your vehicles are, what route they're following, where they stopped; and, for how long. Just imagine what you can do with this information in your hands; for instance, the adjustments you can make to reduce costs — to say nothing of all the mishaps you can prevent. And then some...

## 2. Alerts & Notifications

Alerts are a very useful feature when you must respond quickly to a difficult situation regarding your vehicles and drivers. With your alerts all set, you get notified when something's wrong; then, you can act immediately, to make sure your vehicles are operating productively, and cost-effectively. Status alerts Get alerts and notifications for any event related to vehicle status, such as battery problems, high temperatures, etc., directly on your screen. Keep your drivers updated on the problem at hand, so that they can fix it on time; and, avoid breakdowns.

### *Health alerts*

Typically, a vehicle management system is connected to an on-board diagnostics device that monitors the health of your vehicle; that is, among other things. So, whenever the vehicle's dashboard indicator light turns on, the system sends an alert indicating the malfunction on your vehicle. This way, the mechanic can repair the vehicle much faster.



## ***Alerts for unexpected events***

These alerts let you know if a fleet vehicle is being towed or was involved in a traffic accident. In case one of your drivers gets into an accident, the vehicle management platform will provide accident-related insights that may prove to be valuable for insurance claims, too.

## **3. Driver behavior notifications and metrics**

Speaking of accidents, with driver behavior reports you can watch over your fleet drivers, to ensure they drive safely. To elaborate, the system monitors and generates reports and metrics, such as scorecards, to outline driver activity and behavior. Essentially, driver scorecards help you determine alarming driving behaviors, like hard braking, fast accelerations, RPM, and sharp turns. Furthermore, they can help you address those behaviors effectively. For example, you can use these metrics to create and implement a safety policy in the company; as well as provide customized driver training to your crew.

## **4. Fuel management**

Without a doubt, a good vehicle management system offers fuel consumption monitoring and reporting, to control and optimize

fuel costs; especially those that come from excessive engine idling, dangerous driving behaviors, and fuel theft. Thankfully, vehicle management systems can generate such reports, containing info on every activity pertaining to fuel purchase and usage.

## **5. Trip log and mileage**

With the trip log feature, you can maintain historical data per trip, and track the routes on the map; along with collecting behavioral data and logs with malfunction alerts. What's more, you can keep an eye on your fleet's mileage, to achieve fuel economy; and get tax deductions, too.

## **6. Vehicle maintenance**

Proactive vehicle maintenance is yet another significant feature in a first-rate vehicle management system. By utilizing this feature, you get all the vehicle-status and diagnostics data you need to keep everything under control. Additionally, with this feature, you're promptly notified of routine checkups, and repairs.