Smart Internz

PROJECT REPORT **NM2023TMID06444**

VEHICLE MANAGEMENT SYSTEM USING SALESFORCE

1. Introduction:

1.1 Overview:

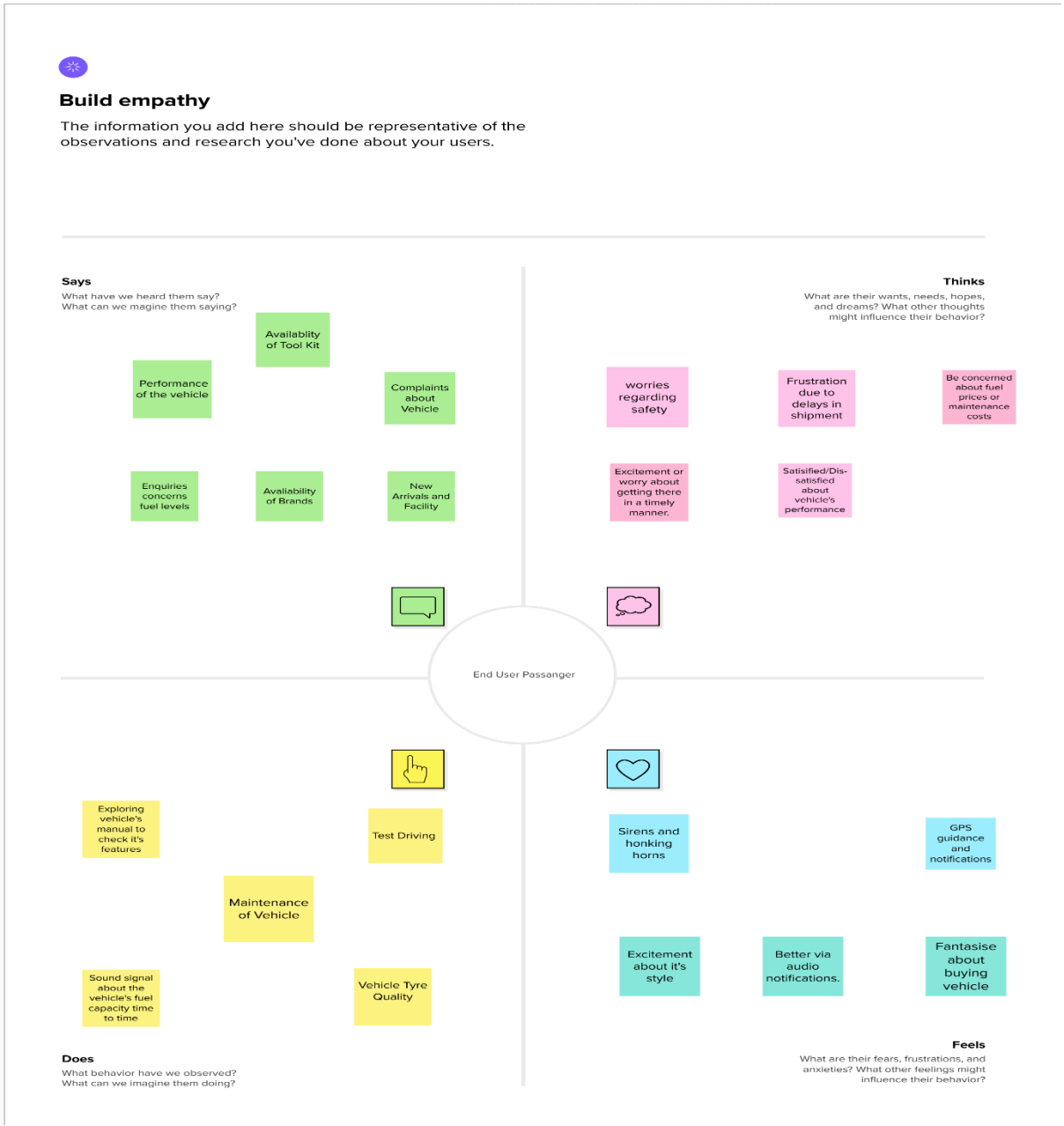
A Vehicle Management System (VMS) is a software solution used to manage various aspects of vehicle operations such as vehicle tracking, maintenance, fuel consumption, and more. Salesforce is a powerful cloud-based Customer Relationship Management (CRM) platform that can be used to develop a custom VMS.

1.2 Purpose:

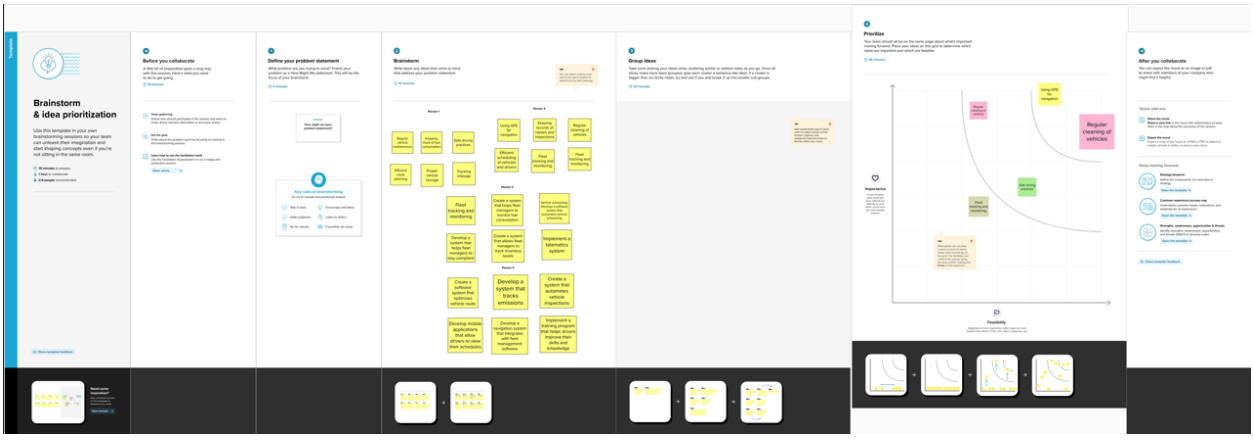
Vehicle Management System using Salesforce can help you optimize your vehicle fleet, reduce costs, and improve overall performance. It can also provide increased visibility and control over your operations, allowing you to make informed decisions and better serve your customers.

2. Problem Definition & Design Thinking

2.1 Empathy Map:



2.2 Ideation & Brainstorming and Screenshot:



3. Result

3.1 Data Model:

<table>
<tr><th>Object Name</th><th colspan="3">Fields in the Object</th></tr>
<tr><td>Create an Object</td><td></td><td>
<table>
<tr><th>Field Label</th><th>Data Types</th></tr>
<tr><td>Customer Name</td><td>Text</td></tr>
<tr><td>Customer Mobile No</td><td>Number</td></tr>
<tr><td>Vehicle Type
i) 2-Wheeler
ii) 4-Wheeler</td><td>Picklist</td></tr>
<tr><td>2 WHEELERS
i) HERO
ii) HONDA
iii)BAJAJ
iv) ROYAL ENFIELD
v) TVS
vi) KINETIC
vii) OLA
viii) JAWA
ix) SD
x) BATTERY</td><td>Picklist</td></tr>
<tr><td>4 WHEELERS
i) RENAULT
ii) SKODA
iii) HONDA
iv) HYUNDAI
v) SUZUKI
vi) MAHINDRA
vii) VOLKSWAGEN
viii) BENZ</td><td>Picklist</td></tr>
</table>
</td><td></td></tr>
</table>

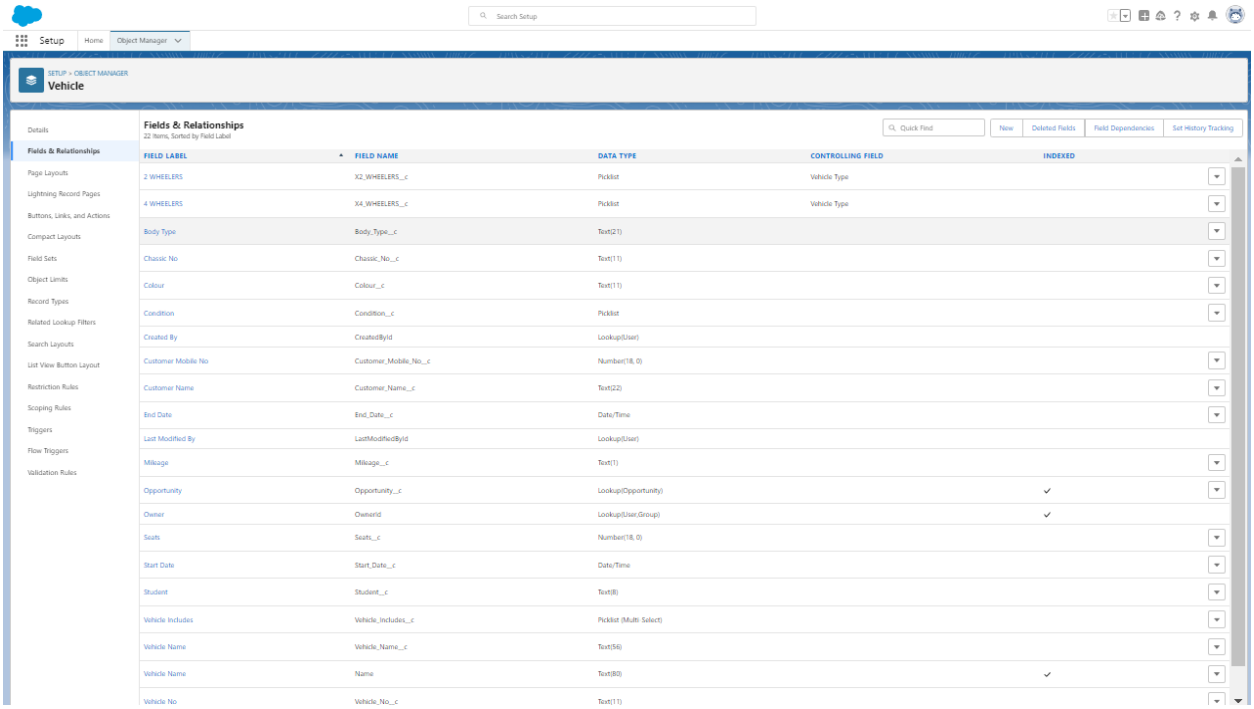
ix) AUDI x) VOLVO	
Vehicle Name	Text
Vehicle No	Text
Chassic No	Text
Colour	Text
Body Type	Text
Vehicle Includes i) Fire Extenuation ii) First Aid Kit iii) Multi Charger Kit iv) Stepney v) Stereo vi) Tool Kit vii) Tracking Device viii) Tyre Jack	Multi Picklist
Condition i) Good ii) Medium iii) Least	Picklist
Mileage	Text
Seats	Number
Start Date	Date/Time
End Date	Date/Time
Opportunity	Lookup (opportunities)

Driver Object

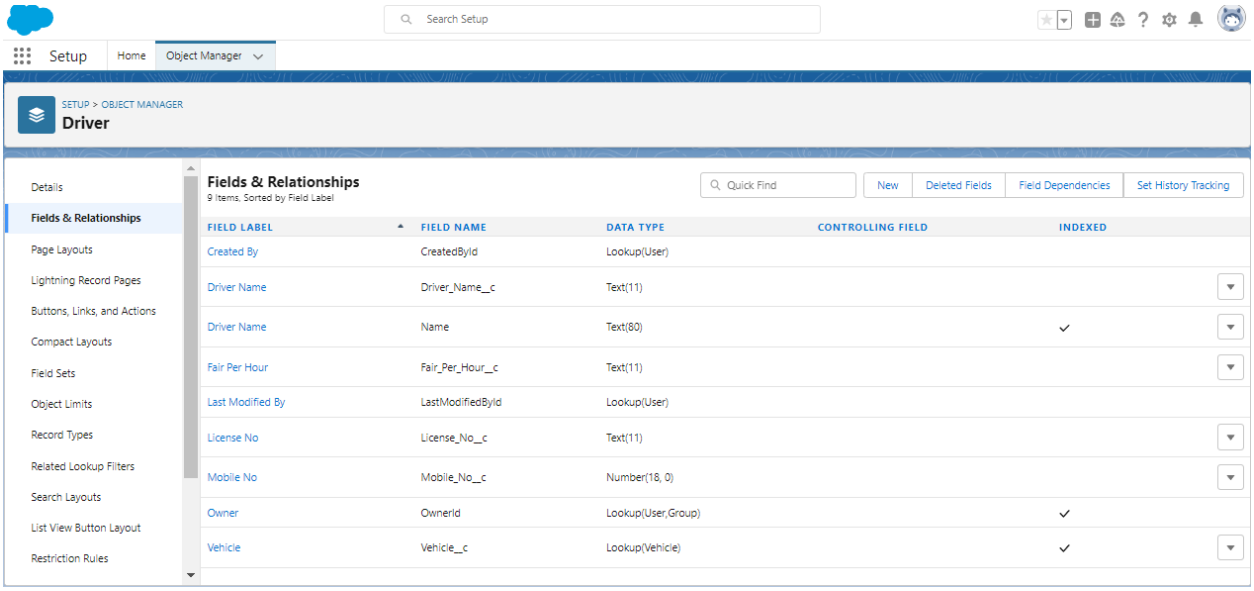
Field	Data Type
Driver Name	Text
Licence No	Text

	Mobile No	Number
	Fair Per Hour	Text
	Vehicle	Lookup (Vehicle)

3.2 Activity & Screenshot



All the Fields for the Vehicle Object are Created.



All the Fields for the Driver Object are Created.

4. Trailhead Profile Public URL

Team Leader Nandha Kumar B - https://trailblazer.me/id/nkumarb7

Team Member 1 Prasanth R - https://trailblazer.me/id/prasanthravikumaran

Team Member 2 Ranjith R - https://trailblazer.me/id/ranjr22

Team Member 3 Sabarinathan P - https://trailblazer.me/id/sabap7

5 Advantages and Disadvantages

5.1 ADVANTAGE

- Improved Efficiency
- Better Maintenance
- Reduced Fuel Consumption
- Enhanced Driver Performance
- Increased Visibility
- Costs Savings

5.2 DISADVANTAGE

- Resistance to Change
- Data Security
- Costs
- System Downtime
- Complexity

6. Application

- Transportation: Transportation companies can use a vehicle management system to track vehicle location, monitor fuel consumption, and improve driver safety.

- Construction and Field Services: Companies that provide field

services, such as construction, repair, or maintenance services, can use a vehicle management system to dispatch technicians to job sites, track service vehicles, and optimize scheduling.

- Public Transportation: Public transportation agencies can use a vehicle management system to track buses and trains, optimize routes, and improve service reliability.

- Emergency Services: Emergency services, such as police, fire, and ambulance services, can use a vehicle management system to track emergency vehicles, improve response times, and dispatch resources more efficiently.

- School Districts: School districts can use a vehicle management system to track buses, optimize routes, and improve safety for students.

7. Conclusion

A vehicle management system using Salesforce can provide a range of benefits for organizations that rely on a fleet of vehicles to carry out their operations. These benefits include improved efficiency, better maintenance management, reduced fuel consumption, enhanced driver performance, increased visibility, cost savings, and improved customer service. However, there are also some potential disadvantages to consider, such as cost, complexity, data security, system downtime, and resistance to change. Nevertheless, a well-

designed and implemented vehicle management system can help organizations optimize their fleet operations, reduce costs, and improve overall performance.

8. FUTURE SCOPE

Given how quickly technology is developing and how many new breakthroughs are being made, a vehicle management system utilising Salesforce has a very broad future application. Here are a few probable advancements for vehicle management systems in the future:

- Integration with IoT: To gather data in real-time on vehicle performance and condition as well as track the whereabouts of the cars, vehicle management systems can be combined with IoT (Internet of Things) gadgets.
- Predictive Maintenance: Using artificial intelligence and machine learning algorithms, a vehicle management system may forecast maintenance needs based on driving habits and other variables. This can lower repair expenses and assist to avoid breakdowns.
- Autonomous Vehicles: As the technology behind them develops, a fleet of self-driving cars can be managed and watched over using a vehicle management system.
- Advanced Analytics: By analysing the data gathered by the vehicle management system, advanced analytics may be used to spot patterns and trends as well as to inform decisions.
- Fleet managers can monitor their fleets at any time and from any location thanks to mobile access to vehicle management systems.

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Overall, a vehicle management system has a promising future due to the constant introduction of new technology and advancements. Organisations now have tremendous potential to optimise their fleets and increase their productivity and cost savings.