GOVERNMENT ART AND SCIENCE COLLEGE, T.C.KOOTROAD,VANNUR

VEHICLE MANAGEMENT SYSTEM USING SALESFORCES

2023

By

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III B.SC MATHEMATICS

# INTRODUCTION

1.1 overview

- Vehicle Management Systems (VMS) have become increasingly important over time in space missions, due both to the demands for increased flexibility and capability of these missions, and the supply of increasingly capable computing systems to provide this improved functionality. VMSs include the management of uncertainties in vehicle state, which is the vehicle portion of System Health Management (SHM), and the management and control of vehicle components to achieve external goals, which we will term "System Operations Management" (SOM). SHM and SOM functions can be allocated to humans or machines, whether on the ground or on-board. To the extent these are allocated to the vehicle's machines (as opposed to crew), these are part of the Vehicle Management System.

PROBLEM DEFINITION & DESIGN THINKING
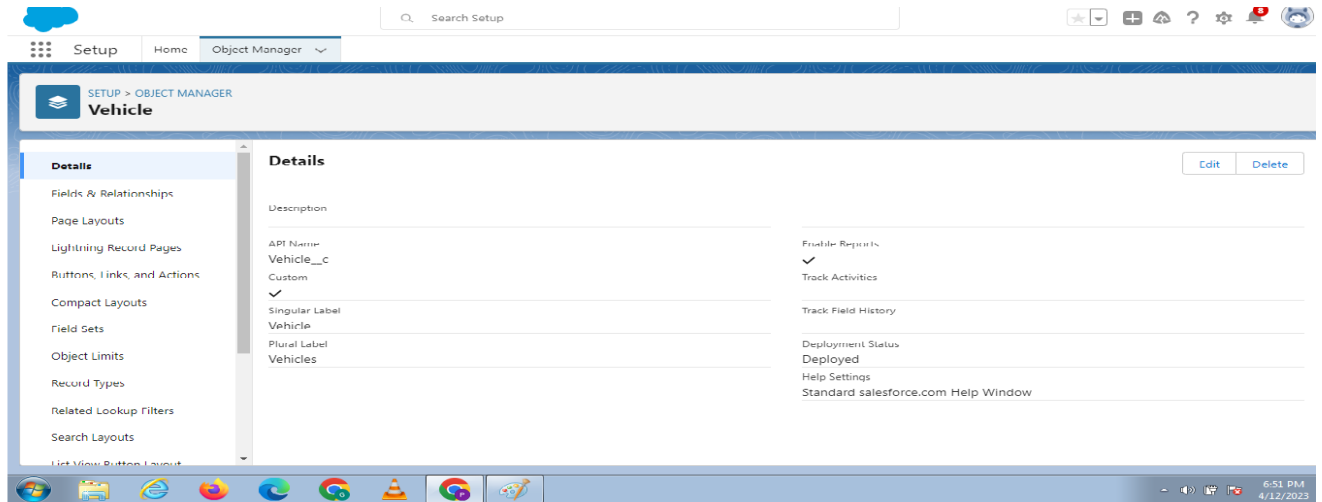
2.1 EMPATHY MAP
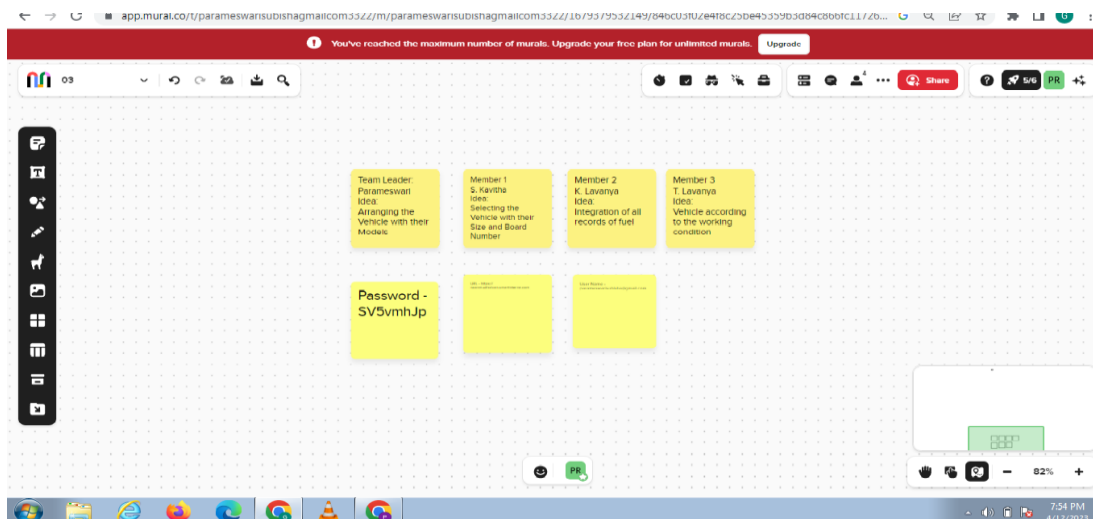
IDEATION & BRAINSTORMING MAP
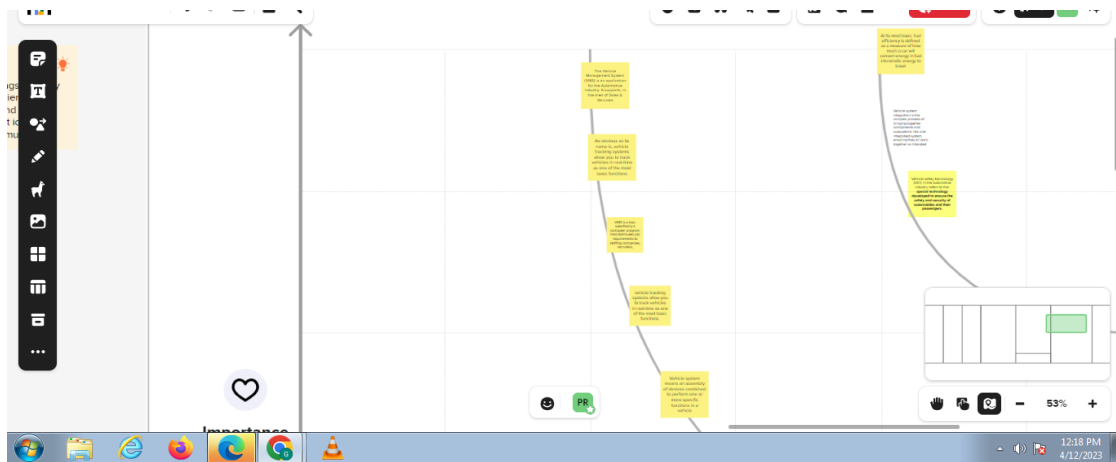
3. RESULT

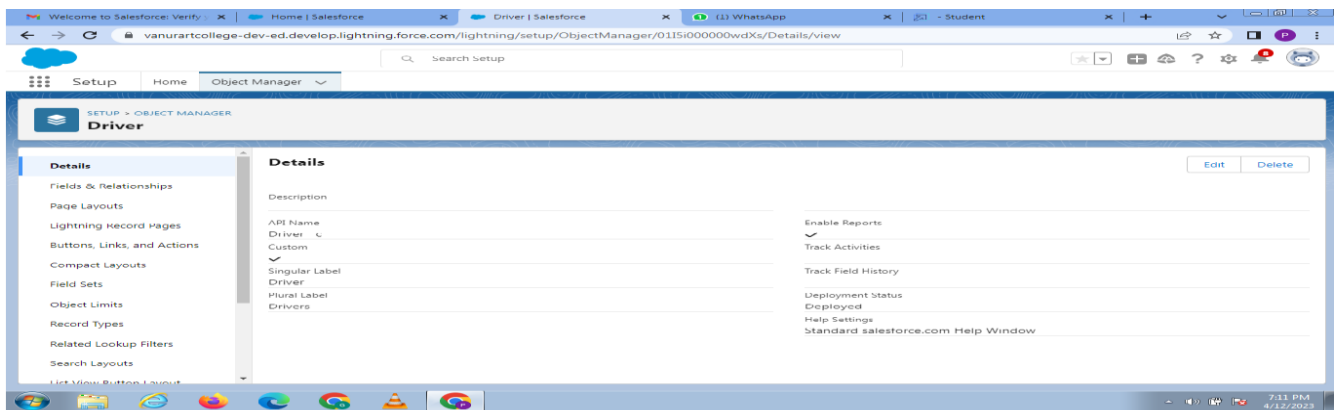| Object name	Field in the object	
Object 1	**Field label**	**Data type**
	Vehicle	Text
Object 2	**Field label**	**Data type**
	Driver	Text

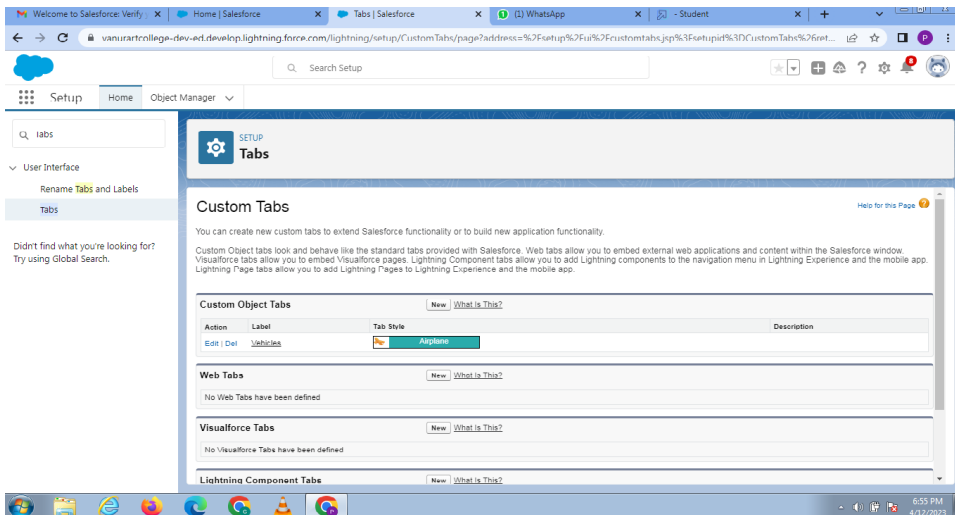## 3.2 ACTIVITY & SCREENSHOT

CREATION OF OBJECT
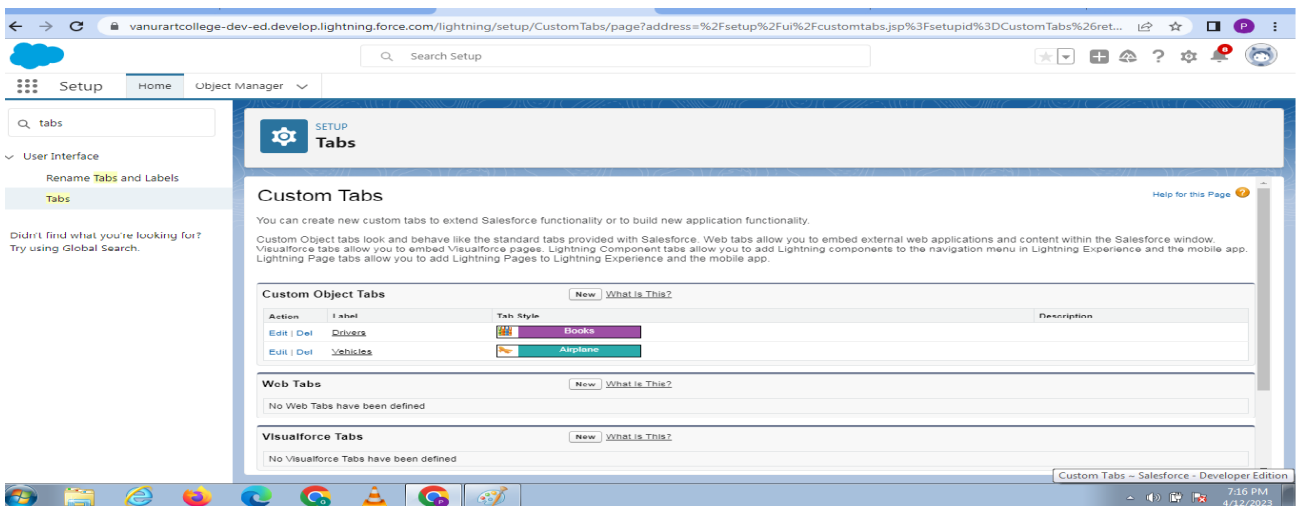
ACTIVITY 1

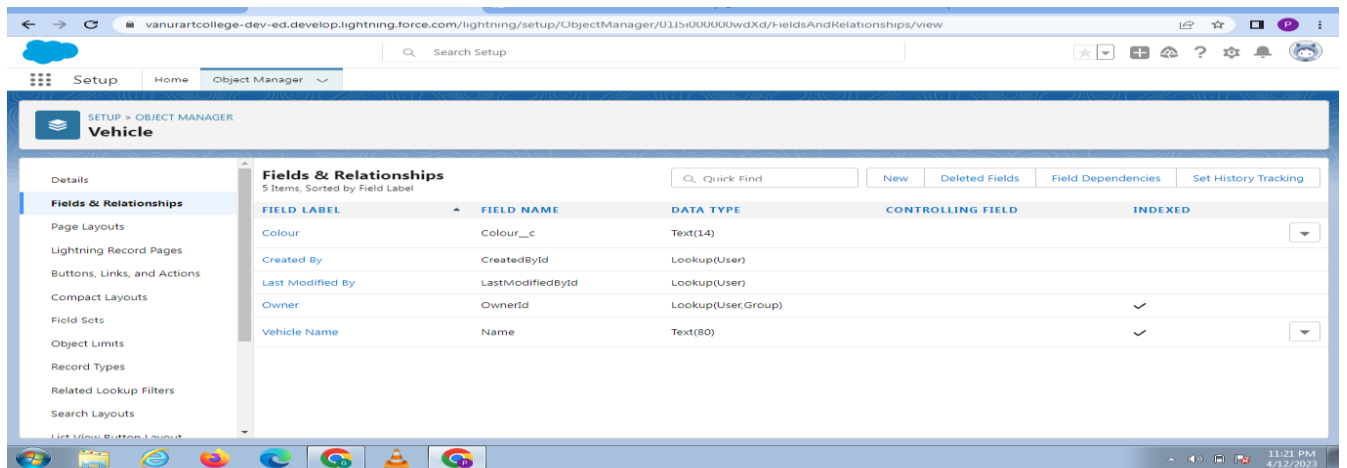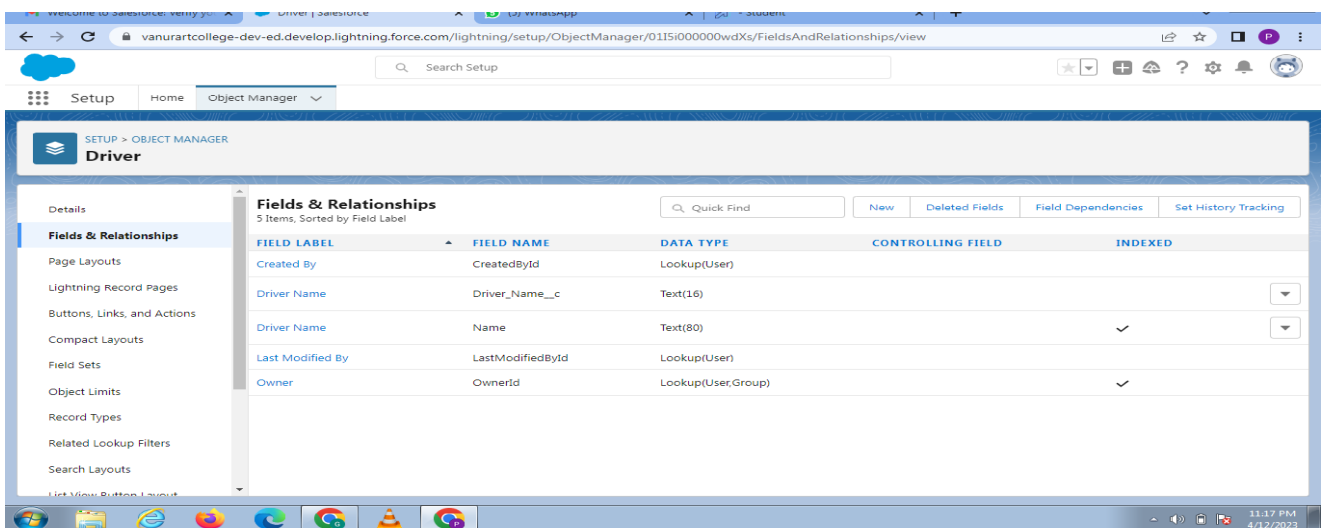# ACTIVITY 2

CREATION OF TABS

ACTIVITY 1

ACTIVITY 2

CREATION OF FIELDS

ACTIVITY 1

ACTIVITY 2

CREATION OF VEHICLE MANAGEMENT APP

17	Salesforce Schedul...	LightningScheduler	Set up personalized appointment scheduling.	12/04/2023, 3:57 pm	Lightning	✓	▼
18	Service	Service	Manage customer service with accounts, contacts, cases, and ...	12/04/2023, 3:56 pm	Classic	✓	▼
19	Service Console	LightningService	(Lightning Experience) Lets support agents work with multiple...	12/04/2023, 3:56 pm	Lightning	✓	▼
20	Site.com	Sites	Build pixel-perfect, data-rich websites using the drag-and-dro...	12/04/2023, 3:56 pm	Classic		▼
21	Subscription Mana...	RevenueCloudConsole	Get started automating your revenue processes	12/04/2023, 3:56 pm	Lightning	✓	▼
22	Vehicle Management	Vehicle_Management		12/04/2023, 11:44 ...	Lightning	✓	▼

CREATION OF PROFILE

ACTIVITY 1

ACTIVITY 2

ACTIVITY 3

CREATING A USERS

ACTIVITY 1

ACTIVITY 2

ACTIVITY 3

CREATE A REPORT
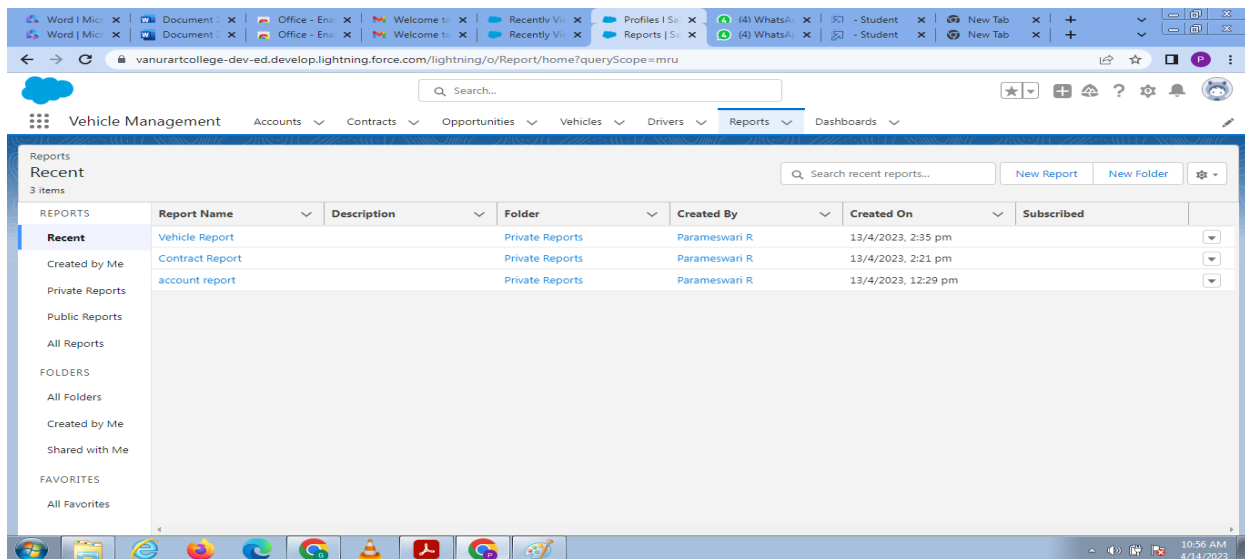
4. TRAILHEAD PROFILE PUBLIC URL:

TEAM LEADER(R. PARAMESWARI)- https://trailblazer.me/id/parar6

TEAM MEMBER 1 (K. LAVANYA)- https://trailblazer.me/id/lavak321

TEAM MEMBER 2 (S. KAVITHA)- https://trailblazer.me/id/kkavitha27

TEAM MEMBER 3 (T. LAVANYA)- https://trailblazer.me/id/lavat5

5. ADVANTAGES :

- The essential benefits offered by these systems relative to manually controlled vehicles are improved operating efficiency and vehicle safety.

- While the technical feasibility of such systems has been demonstrated, issues of cost and liability risk pose major barriers for near-term deployment on production vehicles.

DISADVANTAGES:

There are several disadvantages of a vehicle management system that should be considered, including:

- Cost: Implementing a vehicle management system can be expensive, as it requires investment in hardware, software, and staff training. This cost may be prohibitive for smaller businesses or organizations.

- Maintenance: Like any system, a vehicle management system requires regular maintenance to keep it functioning properly. This can be time-consuming and expensive, and failure to perform proper maintenance can lead to system failures or data errors.

- Complexity: Vehicle management systems can be complex and difficult to understand, especially for employees who are not familiar with technology. This can result in errors and inefficiencies if users are not properly trained on how to use the system.

- Security: Vehicle management systems can contain sensitive data, such as driver and vehicle information, that must be protected from unauthorized access. This requires robust security measures to be implemented and maintained.

- Dependence on technology: Vehicle management systems rely on technology, which can fail or become outdated. This can result in system downtime, lost data, or the need for expensive upgrades.

6. APPLICATION

- The essential benefits offered by these systems relative to manually controlled vehicles are improved operating efficiency and vehicle safety.

- While the technical feasibility of such systems has been demonstrated, issues of cost and liability risk pose major barriers for near-term deployment on production vehicles.

7.CONCLUSION

A vehicle management system is a software system — or platform — that serves to manage commercial fleets of vehicles, such as cars, vans or trucks — or even heavy equipment — to ensure they're utilized safely, efficiently and professionally, while making sure they're well maintained and high-performing

8.FUTURE SCOPE

The future scope of a vehicle management system is promising and offers opportunities for continued growth and improvement. Here are some potential future developments

- Integration with smart technology: With the rise of the Internet of Things (IoT), there is an opportunity to integrate a vehicle management system with smart technology such as sensors and devices that can monitor and analyze vehicle performance data in real-time.

- Predictive maintenance: Predictive maintenance is a data-driven approach that uses machine learning algorithms to predict when maintenance is required, based on factors such as vehicle usage and performance data. This feature could help to reduce maintenance costs and improve vehicle uptime.

- Autonomous vehicles: As self-driving technology continues to advance, vehicle management systems will need to adapt to manage fleets of autonomous vehicles. This could include features such as remote monitoring, real-time diagnostics, and scheduling for maintenance and repairs.

- Analytics and reporting: There is potential for vehicle management systems to provide advanced analytics and reporting features, such as predictive cost analysis and real-time performance metrics. This could help organizations optimize their fleet operations and make data-driven decisions.

- Integration with other systems: A vehicle management system could be integrated with other business systems, such as accounting software or inventory management systems, to provide a more comprehensive view of the organization's operations.

- In conclusion, the future scope of a vehicle management system is bright and offers numerous opportunities for continued innovation and improvement. With the advancement of technology and data-driven approaches, we can expect to see more sophisticated features and functionalities that will help organizations optimize their fleet operations and reduce costs.