VECHICLE MANAGEMENT SYSTEM

1 INTRODUCTION

Vehicle Management System is a windows application written for 32-bit Windows operating systems which focused in the area of adding, editing and deleting the passengers, staff and the bus routes. In this software a person can be register as a user and he can manage the bus routes and the staff, passengers' details.

- **Overview**

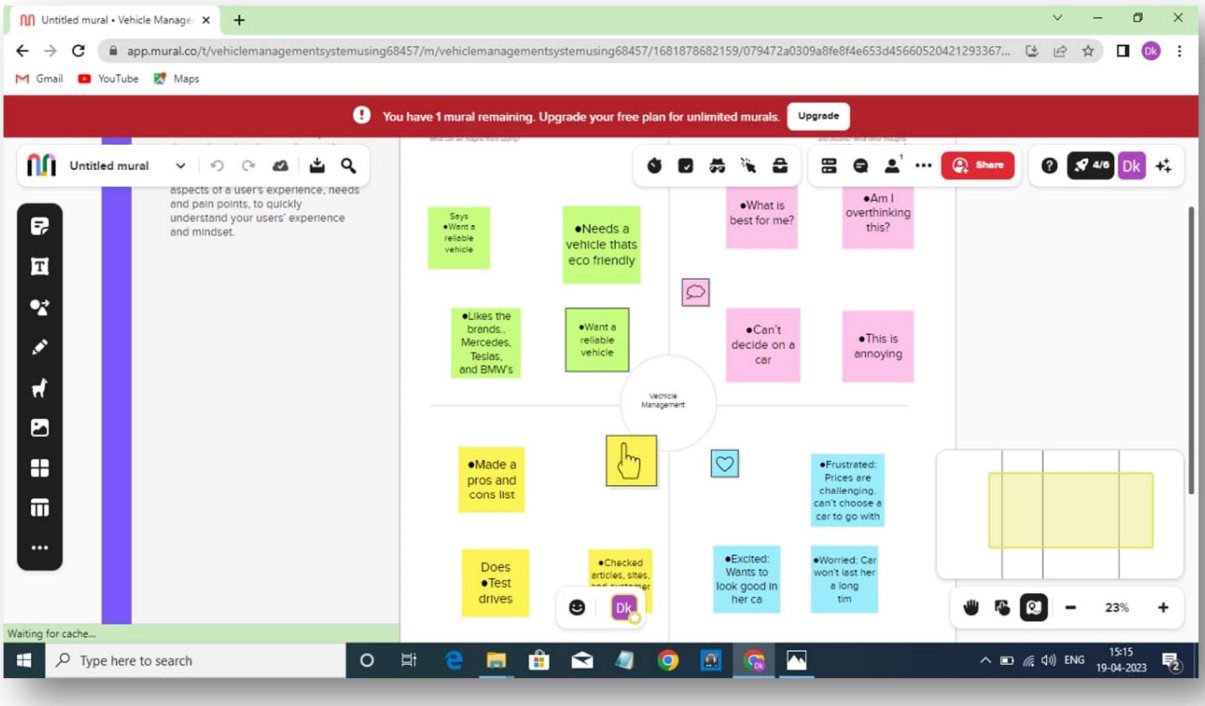
  Vehicle Management System is software which is helpful for bus operators, who wants to operate many bus trips in a day. Vehicle Management System is a windows application written for 32-bit Windows operating systems which focused in the area of adding, editing and deleting the passengers, staff and the bus routes.

- **Purpose**

  Property managers assist owners in creating budgets, advertise rental properties, qualify tenants, and collect rent. They also comply with the local landlord and real estate board laws and maintain the property.

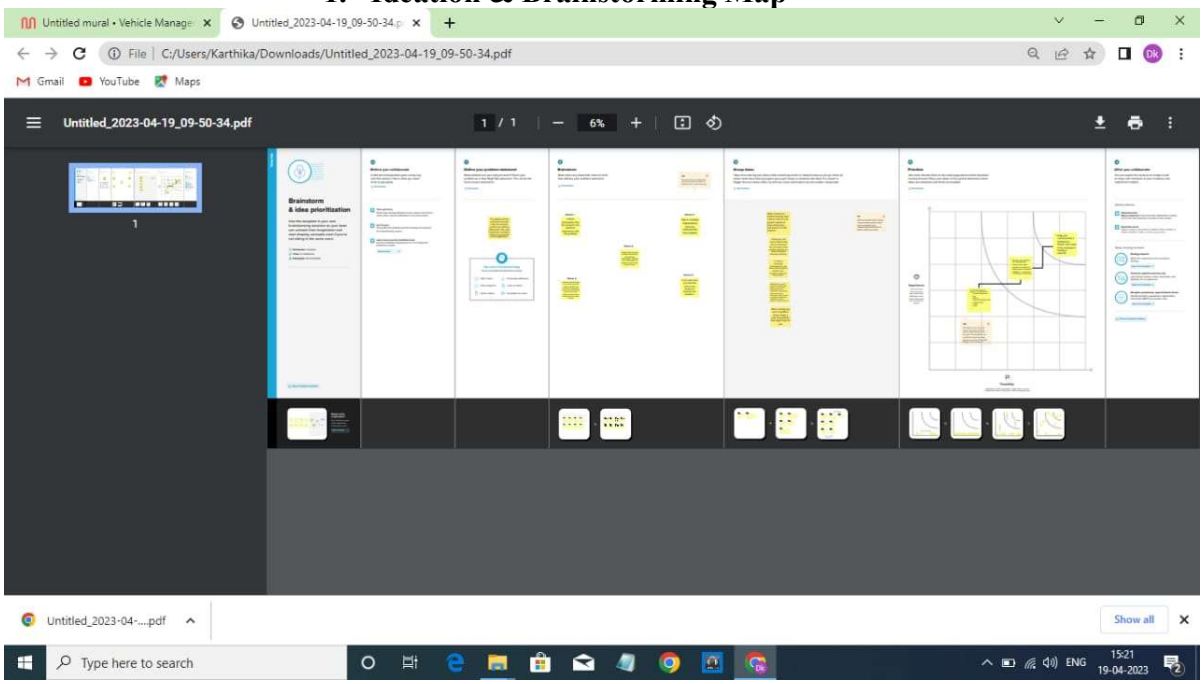
2 Problem Definition & Design Thinking

1. Empathy Map



VECHICLE MANAGEMENT SYSTEM

1. Ideation & Brainstorming Map

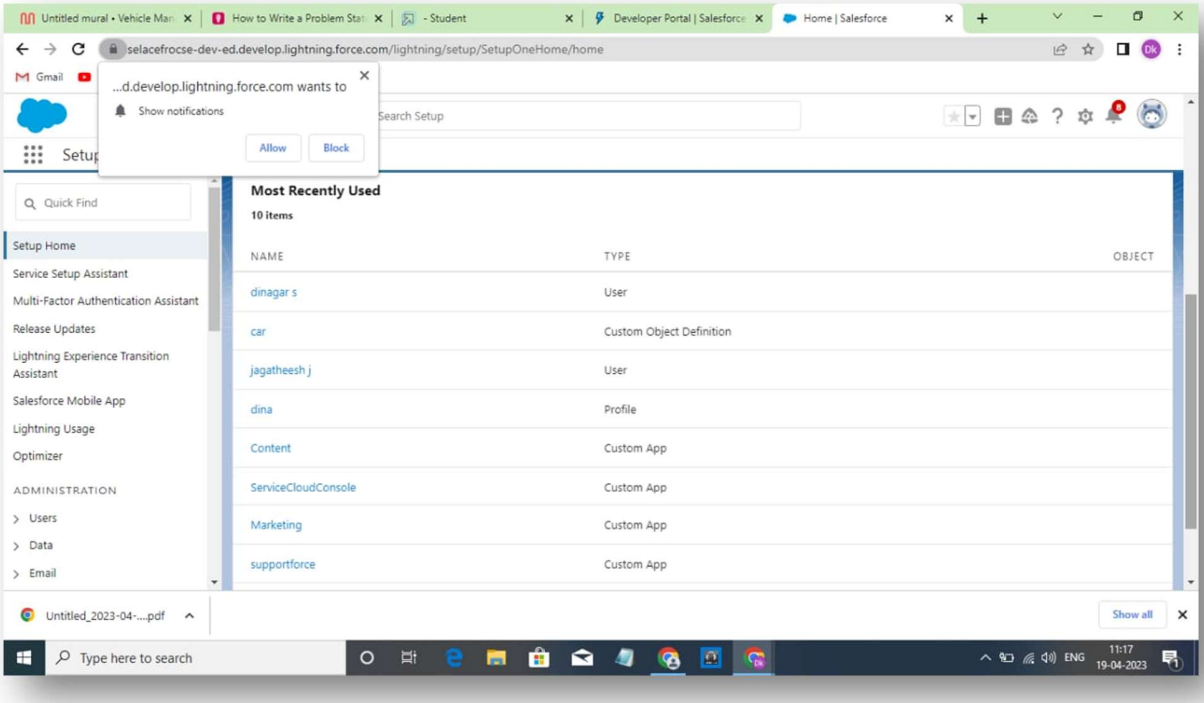


3. RESULT

- **Data Model:**

Object name	Fields in the Object
obj1	Field label: CONTENT — Data type: CUSTOM APP Field label: SERVICE CLOUD CONSOLE — Data type: CUSTOM APP
obj2	Field label: MARKETING — Data type: CUSTOM APP Field label: SUPPORTFORCE — Data type: CUSTOM APP

- **Activity & Screenshot**



4. Trailhead Profile Public URL

Team Lead – https://trailblazer.me/id/dkkdtb

Team Member 1- https://trailblazer.me/id/gunae5
Team Member 2 – https://trailblazer.me/id/inini3

Team Member 3 – https://trailblazer.me/id/jshika3

Team member 4- https://trailblazer.me/id/aanbu12

5. ADVANTAGES & DISADVANTAGE

Advantages

- **Real-time Tracking:** Real-time tracking is essential for any fleet manager. It is only through live vehicle tracking that managers can rest assured about their consignment and asset safety and can enjoy features such as route mapping, route planning, driver behaviour analysis, and even concise reports.

- **Automated Operations:** Fleet management software solutions help automate end-to-end functions in your fleet. Gone are the days when you had to sit down with paper and pen to make calculations, strategies, and much more.
- **Low Operational Costs:** Fuel monitoring and route planning features help reduce operational costs in an organization. You will learn how to use the least possible resources without compromising on results.
- **Higher Profitability:** The lower the operational costs in an organisation, the higher the profits. Moreover, fleet management software solutions allow you to gain higher profits as you get a clearer insight into how your fleet works and get to understand better operational strategies.

Disadvantages

- **Learning Curve:** As with all software systems, fleet management software also comes with a certain learning curve. Some systems can be so complicated that without aid from the software provider, you might not unlock the true potential of the tool at hand.
- **Extra Cost:** Sure, you are bound to gain a lot from using a fleet management software system. The profits you'll make due to the software aid will eventually make up for the initial subscription cost. However, if you are a small business owner, the initial cost might seem like too much.
- **Infrastructure Needs:** You'll face issues using fleet management software systems if you don't have proper network infrastructure. Without a stable Internet connection at all times, you will be missing out on the 'real-time' aspect of these systems. However, you can hardly do anything effectively without proper network infrastructure anyway.
- **Resistance From Staff:** At least initially, your staff might resist adopting fleet management software systems because they will be under complete surveillance. However, once you explain the benefits they get from automation, the integration process should become smoother.

6. APPLICATIONS

VMS is concerned with managing the total vehicle state in response to both external environment and internal system conditions.

This requires the vehicle state to be represented within the VMS to form a basis of decisions to maintain human life and mission objectives.

Interestingly, it also requires an estimate of external state, at least to the degree necessary for the vehicle to interact with it.

Information theory provides the basic definitions to determine the information necessary to represent the total vehicle and external state.

7. CONCLUSION

Vehicle Management Systems are an important and growing facet of space systems, but have received relatively little theoretical attention. As with many other aspects of engineering, VMS's have been developed in practice, with the theory lagging.

However, the complexity of these systems, and of the systems they manage, is beginning to tax "cut and try" methodologies. Space system designers and operators need a theoretical framework to cope with these increasingly sophisticated systems.

8. Future Scope

To assist in the tracking of vehicles operation and the planning of maintenance (i.e.: replacement of spare parts, etc.) that is important to avoid any damage/unexpected problem that might occur in the future that may cause hindrance to the operation and/or risking the safety of the drivers and passengers.